

"We are getting exactly what the school system was designed to produce – a uniformly dumbed–down product of a compliant, lackluster people who have had their individuality crushed out of them by a system that rewards mediocrity."

--- Quote from aerospace engineer John Ross on the talkback forum for *EDN* magazine. (bit.ly/nHMMIm)

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Provisioning, Troubleshooting, and Maintenance

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The following error types are sent to CALEA ROP via the CALEA SAS error report when 5ESS experiences any abnormal condition related to CALEA functionality

Error type:	Attempt to send a CALEA message to a CALEA process failed.
Condition:	OSDS cannot send CALEA related message to a target CALEA process.
Sensitive CALEA Data:	Some scenarios will dump Party Identifier (calling or called party number).
Potential Impact:	Missing a CDC message, or an interception.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
F	Attended to a data a settering a tation of a loss description
Error type:	Attempted to add monitoring station when 5 already exist.
Condition:	More than 5 LEAs are assigned to this packet subject.
Sensitive CALEA Data:	Party identifier (party member number): Either B1, B2, or D channel, and channel number. Low
Priority : Action to be considered:	Contact Lucent TSS personnel.
Action to be considered.	Collact Eucent 155 personnel.
Error type:	Bridge Resource Failure
Condition:	None
Sensitive CALEA Data:	None
Priority :	NA
Action to be considered:	Contact Lucent TSS personnel.
risten to be considered.	
Error type:	Bridge Loop Channel Unavailable
Condition:	Cannot bridge into the call, as loop channel is not available.
Sensitive CALEA Data:	Subject's port information
Potential Impact:	No call content is available.
Priority :	High
Action to be considered:	It may be required to relocate lines from this SM other SMs.
Error type:	CCC Dial Out Answer Timeout
Condition:	Law enforcement collection facility for CCC Dial Out did not answer call in specified time.
Sensitive CALEA Data:	None
Potential Impact:	Missing CCC data for surveillance.
	High
Priority :	High
Action to be considered:	High Contact Lucent TSS personnel.
Action to be considered:	Contact Lucent TSS personnel.
Action to be considered:	Contact Lucent TSS personnel. CCC Dial Out connection dropped
Action to be considered: Error type: Condition:	Contact Lucent TSS personnel. CCC Dial Out connection dropped Call to CCC destination LEA DN was either cleared or could not be established.
Action to be considered: Error type: Condition: Sensitive CALEA Data:	Contact Lucent TSS personnel. CCC Dial Out connection dropped Call to CCC destination LEA DN was either cleared or could not be established. None
Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact:	Contact Lucent TSS personnel. CCC Dial Out connection dropped Call to CCC destination LEA DN was either cleared or could not be established. None Call content is no longer provided to law enforcement.
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Action to be considered: Error type: Condition: Sensitive CALEA Data: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Priority : Action to be considered: Priority : Action to be considered:	Contact Lucent TSS personnel. CCC Dial Out connection dropped Call to CCC destination LEA DN was either cleared or could not be established. None Call content is no longer provided to law enforcement. High Contact Lucent TSS personnel. CCC Dial Out fanout not supported Subject to subject redirection resulted in an attempt to merge or fanout call content. None Call content is not provided or no longer provided to law enforcement for specified subject/surveillance. High Contact Lucent TSS personnel. CCC Dial Out RCV path failed Attempt to establish CCC dial out subject receive connection failed. None Subject receive portion of call content is not provided to law enforcement for affected surveilance. High Contact Lucent TSS personnel. CCC Dial Out RCV path failed Attempt to establish CCC dial content is not provided to law enforcement for affected surveilance. High Contact Lucent TSS personnel. CCC Dial Out retry failed

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Potential Impact:	Call content is not provided to law enforcement for affected surveillance.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	CCC Dial Out three port conference circuit dropped
Condition:	Conference circuit used to combine subject transmit and receive is no longer available.
Sensitive CALEA Data:	None
Potential Impact:	Call content is no longer provided to law enforcement for specified subject/surveillance.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	CCC Dial Out three port conference circuit unavailable
Condition:	A Conference circuit to combine subject transmit and receive is not available.
Sensitive CALEA Data:	None
Potential Impact:	Call content is provided in separated mode.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
Error type: Condition: Sensitive CALEA Data: Potential Impact:	CCC Dial Out unsupported supplementary service encountered A supplementary service (e.g., MLHG queuing, queued call pickup) at the intra-switch CCC destination LEA DN was encountered. None Call content is not provided to law enforcement.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered:	CCC Dial Out XMIT path failed Attempt to establish CCC dial out subject transmit connection failed. None Subject transmit portion of call content is not provided to law enforcement for affected surveillance. High Contact Lucent TSS personnel.
Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority :	CCCTP cannot activate port, can not add. Cannot activate an outgoing CALEA CCC digital trunk port. In other words, CALEA cannot gain ownership of the trunk circuit and links the peripheral side data structures to the terminal process. Subject's port information. No call content is available. High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	CCCTP cannot close network path
Condition:	The call content channel network path cannot be closed
Sensitive CALEA Data:	Subject's port information
Potential Impact:	No call content is available
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	CCCTP cannot idle all ports.
Condition:	Cannot successfully release the source and restore C-tone on the trunk.
Sensitive CALEA Data:	None
Potential Impact:	No C-tone is restored.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
Error type: Condition: Sensitive CALEA Data:	CCCTP can not merge ports on different SMs. Two CCC bridges from different SMs are to be merged and is rejected. Bridge merging is required to merge the bridge and CCC resources associated with multiple subjects when one subject disconnects from a call but the call is not released (e.g. call transfer). None

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Potential Impact: Priority :	One of the CCCs will not have call content. Low
Action to be considered:	Contact Lucent TSS personnel.
Error type:	CCCTP can not release all ports
Condition: Sensitive CALEA Data:	Cannot de-couple the ports when more than one port is associated with the PCBLA. None
Potential Impact:	Trunk ports are not properly released.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
Error type:	CCCTP could not remove CTONE.
Condition:	It occurs when the hardware (e.g., DSU/DSU2) supplying the tone is OOS (high runner
	case) or Glctone (a global parameter) was overwritten with an invalid value.
Sensitive CALEA Data:	None
Potential Impact:	Call content cannot be successfully delivered.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	CCCTP couple port failed, can not add.
Condition:	Cannot associate a CCC trunk port with the CALEA process.
Sensitive CALEA Data:	None
Potential Impact: Priority :	Call content cannot be successfully delivered. High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	CCCTP port access failed, can not add.
Condition: Sensitive CALEA Data:	Cannot find the port information from relation RLGROUP_PORT. None
Potential Impact:	Call content cannot be successfully delivered.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel. It is unlikely unless database is corrupted.
Error type:	CCCTP port limit exceeded, can not add.
Condition:	There are more than 50 CCC trunks to be linked to one PCBLA for adding new CCC
	scenarios.
Sensitive CALEA Data:	None
Potential Impact:	Call content cannot be successfully delivered.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
Error type:	CCCTP port limit exceeded, cannot merge.
Condition:	There are more than 50 CCC trunks to be linked to one PCBLA for merging scenarios.
Sensitive CALEA Data:	None Call content connet be guessesfully delivered
Potential Impact: Priority :	Call content cannot be successfully delivered. Low
Action to be considered:	Contact Lucent TSS personnel.
E-man from the	
Error type:	CCCTP port move failed, can not merge.
Condition:	Cannot move the PORTLA or CCB to the other CALEA process for merging scenarios.
Condition:	Cannot move the PORTLA or CCB to the other CALEA process for merging scenarios. When ports are moved/merged, only the data structures are affected. All hardware related
	Cannot move the PORTLA or CCB to the other CALEA process for merging scenarios. When ports are moved/merged, only the data structures are affected. All hardware related connections are unaffected.
Condition: Sensitive CALEA Data: Potential Impact:	Cannot move the PORTLA or CCB to the other CALEA process for merging scenarios. When ports are moved/merged, only the data structures are affected. All hardware related
Sensitive CALEA Data: Potential Impact: Priority :	Cannot move the PORTLA or CCB to the other CALEA process for merging scenarios. When ports are moved/merged, only the data structures are affected. All hardware related connections are unaffected. None Call content cannot be successfully delivered. Low
Sensitive CALEA Data: Potential Impact:	Cannot move the PORTLA or CCB to the other CALEA process for merging scenarios. When ports are moved/merged, only the data structures are affected. All hardware related connections are unaffected. None Call content cannot be successfully delivered.
Sensitive CALEA Data: Potential Impact: Priority : Action to be considered:	Cannot move the PORTLA or CCB to the other CALEA process for merging scenarios. When ports are moved/merged, only the data structures are affected. All hardware related connections are unaffected. None Call content cannot be successfully delivered. Low Contact Lucent TSS personnel.
Sensitive CALEA Data: Potential Impact: Priority :	Cannot move the PORTLA or CCB to the other CALEA process for merging scenarios. When ports are moved/merged, only the data structures are affected. All hardware related connections are unaffected. None Call content cannot be successfully delivered. Low Contact Lucent TSS personnel. CCCTP received MGINTERRUPT on port.
Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type:	Cannot move the PORTLA or CCB to the other CALEA process for merging scenarios. When ports are moved/merged, only the data structures are affected. All hardware related connections are unaffected. None Call content cannot be successfully delivered. Low Contact Lucent TSS personnel.
Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact:	Cannot move the PORTLA or CCB to the other CALEA process for merging scenarios. When ports are moved/merged, only the data structures are affected. All hardware related connections are unaffected. None Call content cannot be successfully delivered. Low Contact Lucent TSS personnel. CCCTP received MGINTERRUPT on port. CALEA receives unexpected message MGINTERRUPT for the CCC trunk. None The call content channel will be released.
Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data:	Cannot move the PORTLA or CCB to the other CALEA process for merging scenarios. When ports are moved/merged, only the data structures are affected. All hardware related connections are unaffected. None Call content cannot be successfully delivered. Low Contact Lucent TSS personnel. CCCTP received MGINTERRUPT on port. CALEA receives unexpected message MGINTERRUPT for the CCC trunk. None

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Error type: CCCTP rev cannot be accessed. Condition: The receivant PCELA structure and the CALEA process are not properly linked. Potential Impact: The calculatent cannot be properly delivered. Priority 1: High Action to be considered: Contract Lucent TSS personnel. Error type: CCCTP trunk hunt falled, can not add. Condition: Cannot allocate CCC trunk successfully. Sensitive CALEA Data: None Potential Impact: High Action to be considered: COC TP link hunt falled, can not add. Condition: Soc for CALEA Data: Profer COC Dial Out connection dropped. Condition: SVC for CALEA IP Interface was disconnected due to PH hardware problems or X.25 Potential Impact: None Potential Impact: None Potential Impact: None Condition: SCC DD all Out connection dropped. Condition: Schware problem. None CALEA Data:: Potential Impact: Index reproblem. Intervery pre: CDC Dial Out message queue corrupt Condition:		
Sensitive CALEA Data: None Potential Impact: The call content cannot be properly delivered. Priority :: High Action to be considered: Contract Lucent TSS personnel. Error type: CCCTP trunk hunt failed, can nd add. Condition: Cannot allocate CCC trunk successfully. Sensitive CALEA Data: None Potential Impact: The call content cannot be properly delivered. Priority : High Action to be considered: Increase number of CCC trunks. Error type: CDC Dial Out connection dropped. Condition: SVC for CALEA Pin Interface was disconnected due to PH hardware problems or X.25 packet network outage: None Potential Impact: CALEA CDC data will not be delivered for affected CDC SVC Dial Out surveillance case(s) until natridvarehetwork outage is corrected. High Action to be considered: Verity PH and X25 packet network connections. Error type: CDC Dial Out message queue corrupt Software problem. Sensitive CALEA Data: None None Error type: CDC Dial Out message queue corrupt Condition: CDC Dial Out message queue owriflowed as a r	Error type:	CCCTP rcv cannot be accessed.
Potential Impact: The call content cannot be properly delivered. Priority: High Action to be considered: Contact Lucent TSS personnel. Error type: CCCTP trunk hunt failed, can not add. Condition: Cannot discate CCC trunk successfully. Potential Impact: The call content cannot be preperly delivered. Priority: High Action to be considered: Increase number of CCC trunks. Error type: CDC Dial Out connection dropped. Condition: SVC for CALEA IP Interface was disconnected due to PH hardware problems or X.25 packet network cutage. Sensitive CALEA Data: None Potential Impact: CDC Dial Out		The receiving CCC trunk PCBLA structure and the CALEA process are not properly linked.
Priority: High Action to be considered: Contact Licent TSS personnel. Error type: CCCTP truck hunt failed, can nd add. Condition: CCCTP truck hunt failed, can nd add. Sensitive CALEA Data: None Potential Impact: The call content cannot be preperly delivered. Priority: CDC Dial Out connection dropped. Condition: SVC for CALEA P Interface was disconnected due to PH hardware problems or X.25 packet network outage. Potential Impact: None Potential mpact: CALEA CDC data will not be delivered for affected CDC SVC Dial Out surveillance case(s) until hardware/network outage is corrected. Priority: Until hardware/network outage is corrected. Priority: CDC Dial Out message queue corrupt Condition: Software problem. Software problem. None Potential impact: None Potential impact: CDC Dial Out message queue overflowed as a result of no active SVC(s) to establish TCP/P socket. Sensitive CALEA Data: None Potential impact: CDC Dial Out message queue overflowed as a result of no active SVC(s) to establish TCP/P socket. Sensitive CALEA Data: COEC Dial Out message queue overflowed as a resu		
Action to be considered: Contact Lucent TSS personnel. Error type: CCCTP trunk hunt failed, can nd add. Condition: Cannot allocate CCC trunk successfully. Sensitive CALEA Data: None Potential Impact: The call content cannot be preperly delivered. Priority: High Action to be considered: Increase number of CCC trunks. Error type: CDC Dial Out connection dropped. Condition: SVC for CALEA IP Interface was disconnected due to PH hardware problems or X.25 Sensitive CALEA Data: None Potential Impact: CALEA CDC data will not be delivered for affected CDC SVC Dial Out surveillance case(s) Until Intradvarehetwork outage is corrected. None Priority: High Action to be considered: Verify PH and X25 packet network contections. Error type: CDC Dial Out message queue compt Software problem. Software problem. Sensitive CALEA Data: None Priority: High Action to be considered: Contact Lucent TSS personnel. Error type: CDC Dial Out message queue overflowed as a result of no active SVC(s) to establish TCPIPa pocket. Sensitive CALEA Data: <th></th> <th></th>		
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	Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data:	CDC Dial Out message queue overflowed as a result of no active SVC(s) to establish TCP/IP socket. CALEA ASN.1 CDC message dumped to CALEA ROP may have subject's DN and other call identifying information. CDC message(s) dumped on CALEA ROP will no longer be available to send to law enforcement. High Contact Lucent TSS personnel. CDC Dial Out set failed due to invalid data. SVC-related CALEA surveillance provisioning is incorrect. RC view C.4's SVC LOC LEA CDC TN, SVC DEST LEA CDC TN or RC view 33.2 (IP INTERFACE ASSIGNMENT)/23.40 (X.25 (XAT) PACKET SWITCHING CALEA CDC data will not be delivered until provisioned data is corrected. If condition is not corrected, CALEA CDC data will not be delivered to law enforcement collection facilities. High Verify data provisioned on above RC views to CALEA customer documentation. CDC Dial Out setup failed, will attempt retry SVC for CALEA IP Interface could not be established due to OOS XAT logical channel, the X.25 SVC could not be established due to network problems or temporary PH resource contention. None
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	Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Error type: Condition: Sensitive CALEA Data: Potential Impact:	CDC Dial Out message queue overflowed as a result of no active SVC(s) to establish TCP/IP socket. CALEA ASN.1 CDC message dumped to CALEA ROP may have subject's DN and other call identifying information. CDC message(s) dumped on CALEA ROP will no longer be available to send to law enforcement. High Contact Lucent TSS personnel. CDC Dial Out set failed due to invalid data. SVC-related CALEA surveillance provisioning is incorrect. RC view C.4's SVC LOC LEA CDC TN, SVC DEST LEA CDC TN or RC view 33.2 (IP INTERFACE ASSIGNMENT)/23.40 (X.25 (XAT) PACKET SWITCHING CALEA CDC data will not be delivered until provisioned data is corrected. If condition is not corrected, CALEA CDC data will not be delivered to law enforcement collection facilities. High Verify data provisioned on above RC views to CALEA customer documentation. CDC Dial Out setup failed, will attempt retry SVC for CALEA IP Interface could not be established due to OOS XAT logical channel, the X.25 SVC could not be established due to network problems or temporary PH resource contention. None CALEA CDC data will not be delivered until XAT logical channel is restored to in-service or temporary network problems are corrected.

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Action to be considered:	Restore OOS XAT logical channel, check X.25 packet network.
Error type:	CDC message dropped, GR30 interface send failed
Condition: Sensitive CALEA Data:	Third attempt to send a CDC message over a GR30 connection failed. None
Potential Impact:	Missing CDC data for surveillance(s) using specific GR30.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
F	ODO an DDO Massana lan site in selid
Error type: Condition:	CDC or PDC Message length invalid The message to be sent to LEA is more than 500 bytes.
Sensitive CALEA Data:	None
Potential Impact:	The call data cannot be properly delivered.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel. It should not happen.
Error type:	Can not create surveillance bridge
Condition:	CALEA bridge process cannot be successfully created to perform interception.
Sensitive CALEA Data:	None
Potential Impact:	The subject call cannot be properly intercepted.
Priority : Action to be considered:	Low It should not happen unless the SM is overloaded.
Error type:	Could not apply CTONE
Condition: Sensitive CALEA Data:	CALEA cannot provide CTONE to CCC trunks.
Potential Impact:	None No CCC trunks are available if call is intercepted.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type: Condition:	Destination GR30 LEA CDC DN not recognized by digit analysis GR30 destination LEA DN doesn't pass digit analysis or has an invalid destination type.
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC data for surveillance(s) using specific GR30.
Priority :	High
Action to be considered:	Verify the GR30 destination LEA DN.
Error type:	Digit Surge Tone Decoder Dropped
Condition:	A burst of digits greater than 100 digits in 20 seconds occurred.
Sensitive CALEA Data:	None
Potential Impact: Priority :	Missing CDC dialed digit extraction message.
Action to be considered:	Nothing we can do about it.
Error type:	Discarding buffered CDC messages due to inactivity
Condition: Sensitive CALEA Data:	Failed to establish the GR30 CDC Dial out connection in specified time. None
Potential Impact:	Queued CDC messages will be dumped to the CALEA ROP.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
Error type:	Error return from close application program interface.
Condition:	Socket cannot be successfully deleted.
Sensitive CALEA Data:	None
Potential Impact:	None. The CALEA socket was closed due no surveillance case using the socket
	(destination IP address and port). Another CALEA TCP/IP socket will be established if
	another CDC message needs to be sent.
Priority :	Low
Action to be considered:	None
Error type:	Error return from connect application program interface.
Condition:	Cannot initiate socket connection.
Sensitive CALEA Data:	None
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Potential Impact:	CDC cannot be properly delivered.
Priority : Action to be considered:	Low Contact Lucent TSS personnel.
Action to be considered.	Contact Eucent 155 personnel.
Error type:	Error return from getsockdesc application program interface.
Condition:	Cannot retrieve a socket descriptor associated with the local IP address.
Sensitive CALEA Data:	None
Potential Impact: Priority :	CDC cannot be properly delivered. Low
Action to be considered:	Contact Lucent TSS personnel.
Error type:	Error return from getsockname application program interface.
Condition:	None
Sensitive CALEA Data: Potential Impact:	None None
Priority :	N/A
Error type:	Error return from select application program interface.
Condition:	None
Sensitive CALEA Data: Priority :	None N/A
Flionty.	IWA
Error type:	Error return form send application program interface.
Condition:	The TCP packet cannot be successfully sent.
Sensitive CALEA Data:	None
Potential Impact: Priority :	CDC message cannot be properly delivered. Low
Action to be considered:	Contact Lucent TSS personnel.
Autom to bo obnoracioni	Contast Eastern 100 personnel.
Error type:	Error return from setsockopt application program interface.
Condition:	Cannot set socket option.
Sensitive CALEA Data: Potential Impact:	None CDC message cannot be properly delivered.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
-	
Error type: Condition:	Error return from shutdown application program interface. Cannot shut down the receiving direction for the socket.
Sensitive CALEA Data:	None
Potential Impact:	None
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
Error type:	Error return from socket application program interface.
Condition:	Cannot create a new socket to the destination socket address.
Sensitive CALEA Data:	None
Potential Impact:	CDC message cannot be properly delivered.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
Error type:	Failed to route to GR30 LEA CDC DN
Condition:	Attempt to establish GR30 CDC dial out connection failed.
Sensitive CALEA Data:	
Potential Impact: Priority :	Missing CDC data for surveillance(s) using specific GR30. High
Action to be considered:	Pign Verify the routing for GR30 destination LEA DN.
Error type:	Failed to send GR30 CDC message to link SM
Condition:	Attempt to send a CDC message to the SM with the GR30 connection failed.
Sensitive CALEA Data: Potential Impact:	None Missing CDC data for surveillance(s) using specific GR30.
rotential impact.	
Priority :	OW/
Priority : Action to be considered:	Low Contact Lucent TSS personnel.

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Error type:	Found socket data inconsistency.
Condition:	Internal socket data structure is corrupted.
Sensitive CALEA Data:	None
Potential Impact:	CDC message cannot be properly delivered.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
Error type:	GR30 CAGS TP received MGINTERRUPT
Condition:	GR30 process received an unexpected MGINTERRUPT.
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC data for surveillance(s) using specific GR30.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
Frankinst	OB20 OAOD/OAOD TB sees the sectod
Error type: Condition:	GR30 CAGS/CAGR TP cannot be created GR30 process cannot be created.
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC data for surveillance(s) using specific GR30.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
risten to be considered.	
Error type:	GR30 CDC connection dropped
Condition:	Call to GR30 CDC destination LEA DN was either cleared or could not be established.
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC data for surveillance(s) using specific GR30.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	GR30 CDC message discarded. Link occupancy above threshold
Condition:	Attempt to send a CDC message to another SM and the SM to SM link occupancy above
	threshold.
Sensitive CALEA Data:	None
Potential Impact:	The CDC message will be dumped to the CALEA ROP.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
Error type:	GR30 Internal Failure
Condition:	Internal failure encountered while processing a CDC message.
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC data for surveillance(s) using specific GR30.
Priority :	Low Contact Lucent TSS personnel.
Action to be considered:	
Error type:	
Error type:	GR30 Length of CDC message too large for OSDS
Condition:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process.
Condition: Sensitive CALEA Data:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None
Condition: Sensitive CALEA Data: Potential Impact:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process.
Condition: Sensitive CALEA Data:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP.
Condition: Sensitive CALEA Data: Potential Impact: Priority :	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP. Low
Condition: Sensitive CALEA Data: Potential Impact: Priority :	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP. Low
Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel.
Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel. GR30 msg queue full, oldest message discarded The GR30 CDC message buffer is already full when another CDC message is received. None
Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel. GR30 msg queue full, oldest message discarded The GR30 CDC message buffer is already full when another CDC message is received. None The CDC message will be dumped to the CALEA ROP.
Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority :	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel. GR30 msg queue full, oldest message discarded The GR30 CDC message buffer is already full when another CDC message is received. None The CDC message will be dumped to the CALEA ROP. Low
Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel. GR30 msg queue full, oldest message discarded The GR30 CDC message buffer is already full when another CDC message is received. None The CDC message will be dumped to the CALEA ROP.
Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel. GR30 msg queue full, oldest message discarded The GR30 CDC message buffer is already full when another CDC message is received. None The CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel.
Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP, Low Contact Lucent TSS personnel. GR30 msg queue full, oldest message discarded The GR30 CDC message buffer is already full when another CDC message is received. None The CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel. HEARTBEAT message dropped, GR30 interface send failed
Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel. GR30 msg queue full, oldest message discarded The GR30 CDC message buffer is already full when another CDC message is received. None The CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel. HEARTBEAT message dropped, GR30 interface send failed Third attempt to send a HEARTBEAT CDC message over a GR30 connection failed.
Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel. GR30 msg queue full, oldest message discarded The GR30 CDC message buffer is already full when another CDC message is received. None The CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel. HEARTBEAT message dropped, GR30 interface send failed Third attempt to send a HEARTBEAT CDC message over a GR30 connection failed. None
Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP, Low Contact Lucent TSS personnel. GR30 msg queue full, oldest message discarded The GR30 CDC message buffer is already full when another CDC message is received. None The CDC message will be dumped to the CALEA ROP, Low Contact Lucent TSS personnel. HEARTBEAT message dropped, GR30 interface send failed Third attempt to send a HEARTBEAT CDC message over a GR30 connection failed. None
Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Ptority :	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel. GR30 msg queue full, oldest message discarded The GR30 CDC message buffer is already full when another CDC message is received. None The CDC message will be dumped to the CALEA ROP. Low Contact Lucent TSS personnel. HEARTBEAT message dropped, GR30 interface send failed Third attempt to send a HEARTBEAT CDC message over a GR30 connection failed. None Missing CDC data for surveillance(s) using specific GR30. Low
Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact:	GR30 Length of CDC message too large for OSDS Received a CDC message too large to process. None CDC message will be dumped to the CALEA ROP, Low Contact Lucent TSS personnel. GR30 msg queue full, oldest message discarded The GR30 CDC message buffer is already full when another CDC message is received. None The CDC message will be dumped to the CALEA ROP, Low Contact Lucent TSS personnel. HEARTBEAT message dropped, GR30 interface send failed Third attempt to send a HEARTBEAT CDC message over a GR30 connection failed. None

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Error type: Condition:	IAP times out waiting for login digits Law enforcement collection facility for GR30 CDC Dial Out didn't respond with GR30 login
	digits in the specified time.
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC data for surveillance(s) using specific GR30.
Priority : Action to be considered:	Low Contact LEA personnel.
Error type: Condition:	Invalid IP route The IP route destination for an incoming IP datagram is not associated with a CALEA IP
Condition.	interface. The CALEA TCP/IP Security Enhancement feature discarded the incoming IP
	datagram.
Sensitive CALEA Data:	None
Potential Impact:	Unauthorized access to a switch processor (SMP or PH) via CALEA IP interface was
	detected. If the unauthorized activity continues, the CALEA IP interface will be removed
	from service. Valid CALEA CDC/PDC data delivery will be impacted if no other IP interface
	is available for the destination IP address.
Priority : Action to be considered:	High Verify IP network for security breach or misconfiguration.
Error type: Condition:	Invalid LOGIN digits received Law enforcement collection facility for GR30 CDC Dial Out responded with invalid GR30
Condition.	
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC data for surveillance(s) using specific GR30.
Priority :	
Action to be considered:	Contact LEA personnel.
Error type:	Invalid Protocol Handler CAL_INFO attribute value.
Condition: Sensitive CALEA Data:	Could not find a case ID from CAL_INFO for a packet subject.
Potential Impact:	Call Content in X.25 Packet format. Missing call content of the packet subject.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	IP datagram fragment received
Condition:	An IP datagram fragment received on a CALEA IP interface was detected. The CALEA
	TCP/IP Security Enhancement feature discarded the incoming IP datagram fragment.
Sensitive CALEA Data: Potential Impact:	None A potential security breach was detected on a CALEA IP interface. If the unauthorized
rotontial impact.	activity continues, the CALEA IP interface will be removed from service. Valid CALEA
	CDC/PDC data delivery will be impacted if no other IP interface is available for the
	obon bo data delivery will be impacted in the drief in interface to available for the
	destination IP address
Priority :	destination IP address. High
Priority : Action to be considered:	
	High
Action to be considered: Error type: Condition:	High Verify IP network for security breach or misconfiguration. LOGIN message dropped, GR30 interface send failed Third attempt to send a LOGIN CDC message over a GR30 connection failed.
Action to be considered: Error type: Condition: Sensitive CALEA Data:	High Verify IP network for security breach or misconfiguration. LOGIN message dropped, GR30 interface send failed Third attempt to send a LOGIN CDC message over a GR30 connection failed. None.
Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact:	High Verify IP network for security breach or misconfiguration. LOGIN message dropped, GR30 interface send failed Third attempt to send a LOGIN CDC message over a GR30 connection failed.
Action to be considered: Error type: Condition: Sensitive CALEA Data:	High Verify IP network for security breach or misconfiguration. LOGIN message dropped, GR30 interface send failed Third attempt to send a LOGIN CDC message over a GR30 connection failed. None. Missing CDC data for surveillance(s) using specific GR30.
Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered:	High Verify IP network for security breach or misconfiguration. LOGIN message dropped, GR30 interface send failed Third attempt to send a LOGIN CDC message over a GR30 connection failed. None. Missing CDC data for surveillance(s) using specific GR30. Low Contact Lucent TSS personnel.
Action [®] to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority :	High Verify IP network for security breach or misconfiguration. LOGIN message dropped, GR30 interface send failed Third attempt to send a LOGIN CDC message over a GR30 connection failed. None. Missing CDC data for surveillance(s) using specific GR30. Low
Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition:	High Verify IP network for security breach or misconfiguration. LOGIN message dropped, GR30 interface send failed Third attempt to send a LOGIN CDC message over a GR30 connection failed. None. Missing CDC data for surveillance(s) using specific GR30. Low Contact Lucent TSS personnel. LOGIN Successful Law enforcement collection facility for GR30 CDC Dial Out responded with valid GR30 login digits.
Action to be considered: Error type: Condition: Sensitive CALEA Data: Protential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data:	High Verify IP network for security breach or misconfiguration. LOGIN message dropped, GR30 interface send failed Third attempt to send a LOGIN CDC message over a GR30 connection failed. None. Missing CDC data for surveillance(s) using specific GR30. Low Contact Lucent TSS personnel. LOGIN Successful Law enforcement collection facility for GR30 CDC Dial Out responded with valid GR30 login digits. None
Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition:	High Verify IP network for security breach or misconfiguration. LOGIN message dropped, GR30 interface send failed Third attempt to send a LOGIN CDC message over a GR30 connection failed. None. Missing CDC data for surveillance(s) using specific GR30. Low Contact Lucent TSS personnel. LOGIN Successful Law enforcement collection facility for GR30 CDC Dial Out responded with valid GR30 login digits.

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Error type:	No FSK or UTD resources available for GR30 interface
Condition:	Attempt to establish GR30 CDC dial out connection failed because no FSK resources were
	available.
Sensitive CALEA Data:	None
Potential Impact: Priority :	Missing CDC data for surveillance(s) using specific GR30. High
Action to be considered:	Contact Lucent TSS personnel.
Action to be considered.	
Error type:	No IP route.
Condition:	There is no IP routing information available for the incoming IP packet. The CALEA TCP/IP
	Security Enhancement feature detected and discarded an incoming IP packet datagram that
	is not a response to switch-generated IP data.
Sensitive CALEA Data:	None.
Potential Impact:	Unauthorized access to a switch processor (SMP or PH) via CALEA IP interface was
	detected. If the unauthorized activity continues, the CALEA IP interface will be removed
	from service. Valid CALEA CDC/PDC data delivery will be impacted if no other IP interface
	is available for the destination IP address.
Priority :	High
Action to be considered:	Verify IP network for security breach or misconfiguration.
Error type:	No Tone Decoder Available
Condition:	Cannot allocate a tone decoder.
Sensitive CALEA Data:	None
Potential Impact:	No Dialed Digit Extraction CDC message can be sent.
Priority :	High
Action to be considered:	Notify switch maintenance personnel. Additional tone decoders may need to be provisioned
	in the office.
Error type:	PDC collection facility IP address not obtained.
Condition:	Cannot determine which IP address and port to be sued for a packet level II subject.
Sensitive CALEA Data:	None
Potential Impact:	No call content is sent and the intercepted call is handled as as a level I subject.
Priority : Action to be considered:	Low Contact Lucent TSS personnel.
Action to be considered.	Cultadi Lucent 155 personnei.
Error type:	PSLAESCASE tuple missing when adding new monitoring station.
Condition:	PSLAESCASE tuple is not available for a packet subject.
Sensitive CALEA Data:	Party identifier (party member number): Either B1, B2, or D channel, and channel number.
Potential Impact: Priority :	Call content for the packet subject may not be available. High
Action to be considered:	Contact Lucent TSS personnel.
Action to be considered.	
Error type:	Protocol Handler Resource CAL_INFO Exhaustion
Condition:	None Dathuidantifian Eithar P1, P2, an Dimembar
Sensitive CALEA Data:	Party identifier: Either B1, B2, or D member.
Potential Impact:	Party identifier: Either B1, B2, or D member
Potential Impact: Priority :	Party identifier: Either B1, B2, or D member High
Potential Impact: Priority : Action to be considered:	Party identifier: Either B1, B2, or D member High The SRE RC view can be used to insert more RLCAL_INFO tuples in the affected SMs.
Priority : Action to be considered:	High The SRE RC view can be used to insert more RLCAL_INFO tuples in the affected SMs.
Priority : Action to be considered: Error type:	High The SRE RC view can be used to insert more RLCAL_INFO tuples in the affected SMs. RLCASE_IDX data inconsistency
Priority : Action to be considered: Error type: Condition:	High The SRE RC view can be used to insert more RLCAL_INFO tuples in the affected SMs. RLCASE_IDX data inconsistency Could not find a matching LAES case ID in relation RLcase_idx for a packet subject.
Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data:	High The SRE RC view can be used to insert more RLCAL_INFO tuples in the affected SMs. RLCASE_IDX data inconsistency Could not find a matching LAES case ID in relation RLcase_idx for a packet subject. None
Priority : Action to be considered: Error type: Condition:	High The SRE RC view can be used to insert more RLCAL_INFO tuples in the affected SMs. RLCASE_IDX data inconsistency Could not find a matching LAES case ID in relation RLcase_idx for a packet subject.
Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact:	High The SRE RC view can be used to insert more RLCAL_INFO tuples in the affected SMs. RLCASE_IDX data inconsistency Could not find a matching LAES case ID in relation RLcase_idx for a packet subject. None Missing packet data channel as IP address cannot be obtained
Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered:	High The SRE RC view can be used to insert more RLCAL_INFO tuples in the affected SMs. RLCASE_IDX data inconsistency Could not find a matching LAES case ID in relation RLcase_idx for a packet subject. None Missing packet data channel as IP address cannot be obtained High Contact Lucent TSS personnel.
Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type:	High The SRE RC view can be used to insert more RLCAL_INFO tuples in the affected SMs. RLCASE_IDX data inconsistency Could not find a matching LAES case ID in relation RLcase_idx for a packet subject. None Missing packet data channel as IP address cannot be obtained High Contact Lucent TSS personnel. RLCASE_IDX tuple missing.
Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition:	High The SRE RC view can be used to insert more RLCAL_INFO tuples in the affected SMs. RLCASE_IDX data inconsistency Could not find a matching LAES case ID in relation RLcase_idx for a packet subject. None Missing packet data channel as IP address cannot be obtained High Contact Lucent TSS personnel. RLCASE_IDX tuple missing. Could not find the expected tuple in relation RLCASE_IDX.
Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data:	High The SRE RC view can be used to insert more RLCAL_INFO tuples in the affected SMs. RLCASE_IDX data inconsistency Could not find a matching LAES case ID in relation RLcase_idx for a packet subject. None Missing packet data channel as IP address cannot be obtained High Contact Lucent TSS personnel. RLCASE_IDX tuple missing. Could not find the expected tuple in relation RLCASE_IDX.
Priority : Action to be considered: Error type: Condition: Sensitive CALEA Data: Potential Impact: Priority : Action to be considered: Error type: Condition:	High The SRE RC view can be used to insert more RLCAL_INFO tuples in the affected SMs. RLCASE_IDX data inconsistency Could not find a matching LAES case ID in relation RLcase_idx for a packet subject. None Missing packet data channel as IP address cannot be obtained High Contact Lucent TSS personnel. RLCASE_IDX tuple missing. Could not find the expected tuple in relation RLCASE_IDX.

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Error type:	RLEQUIPDSL tuple missing
Condition:	Could not find the expected tuple in relation RLEQUIPDSL.
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC data for surveillance(s) using specified tuple.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	RLFC_LINE tuple missing
Condition:	Could not find the expected tuple in relation RLFC_LINE.
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC data for surveillance(s) using specified tuple.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	RLGR30INTF tuple missing
Condition:	Could not find the expected tuple in relation RLGR30INTF.
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC data for surveillance(s) using specified tuple.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	RLLAESCASE tuple missing.
Condition:	Could not find the expected tuple in relation RLLAESCASE.
Sensitive CALEA Data:	None
Potential Impact:	Missing CCC and/or CDC.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	RLLAESPROF tuple missing.
Condition:	Could not find the expected tuple in relation RLLAESPROF.
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC messages.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	RLOFFICECODE tuple missing
Condition:	Could not find the expected tuple in relation RLOFFICECODE.
Sensitive CALEA Data:	None
Potential Impact:	Subject's DN is not outpulsed at end of call content when using CCC Dial Out.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	RLPORTLA tuple missing
Condition:	Could not find the expected tuple in relation RLPORTLA.
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC data for surveillance(s) using specified tuple.
Priority : Action to be considered:	High Contact Lucent TSS personnel.
, istion to be considered.	
Error type:	RLPR_DNTRAN tuple missing
Condition:	Could not find the expected tuple in relation RLPR_DNTRAN.
Sensitive CALEA Data:	None
Potential Impact:	Missing CDC data for surveillance(s) using Local LEA CDC DN.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	RLRTDNMOD tuple missing
LIN UPD.	Could not find the expected tuple in relation RLRTDNMOD.
Condition:	
Condition: Sensitive CALEA Data	
Sensitive CALEA Data:	None
Sensitive CALEA Data: Potential Impact:	None Missing CCC or CDC data.
Sensitive CALEA Data:	None Missing CCC or CDC data. High
Sensitive CALEA Data: Potential Impact: Priority :	None Missing CCC or CDC data.

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Condition:	Could not find the expected tuple in relation RLRT DNTRAN.
Sensitive CALEA Data:	None
Potential Impact:	Call content is not provided to law enforcement for surveillance(s) requiring DN in
	RLRT_DNTRAN tuple.
Priority : Action to be considered:	High Contact Lucent TSS personnel.
Action to be considered.	
Error type:	Resource Unavailable.
Condition:	The port for a CCC trunk is not in a valid state.
Sensitive CALEA Data: Potential Impact:	None Missing CTONE.
Priority :	High
Action to be considered:	Contact Lucent TSS personnel.
Error type:	Socket not found.
Condition:	Could not find the last connected socket or a connected socket. It occurs when a/the
	TCP/IP socket used to send CDC data or X.25 packets for a subject's X.25 packet call
	could not be located.
Sensitive CALEA Data:	None
Potential Impact:	For CDC, another socket will be established. For PDC, subject call content is lost.
Priority :	Low
Action to be considered:	Contact Lucent TSS personnel.
Error type:	Surveillance not started due to SM RLCAL_INFO Exhaustion.
Condition:	Could not allocate RLCAL_INFO for an intercepted subject.
Sensitive CALEA Data:	None
Potential Impact: Priority :	CDC and CCC cannot be properly delivered. High
Action to be considered:	The SRE RC view can be used to insert more RLCAL INFO tuples in the affected SMs.
Error type: Condition:	Tone Decoder Dropped.
Sensitive CALEA Data:	Tone decoder dropped due to other failure/maintenance. None
Potential Impact:	Missing DDE CDC message.
Priority :	Low
Action to be considered:	Notify maintenance personnel.
Error type:	Tone Decoder Dropped Due to Load.
Condition:	Tone decoder is dropped, as there is no digit is received after one minute and the tone
	decoder usage is over the threshold.
Sensitive CALEA Data:	None
Potential Impact: Priority :	Missing DDE CDC message. Low
Action to be considered:	No action is required unless LEA wants the DTMF status become essential.
Error type: Condition:	Too many IP datagrams received Too many (more than 5 in 10 seconds) TCP/IP datagrams received on a CALEA IP
	., .
	interface had inappropriate data in TCP segment. A TCP/IP segment can only have
Sensitive CALEA Data:	SYN+ACK, ACK, FIN, FIN+ACK, or RST and no attached data. None
Potential Impact:	A potential security breach was detected on a CALEA IP interface. If the unauthorized
	activity continues, the CALEA IP interface will be removed from service. Valid CALEA
	CDC/PDC data delivery will be impacted if no other IP interface is available for the
	destination IP address.
Priority :	High
Action to be considered:	Verify IP network for security breach or misconfiguration.
Error type:	WARNING: GR30 buffered messages will be discarded in 15 minutes
Condition:	Failed to establish the GR30 CDC Dial out connection. 15 minutes before start dumping
	CDC messages to the CALEA ROP.
Sensitive CALEA Data:	None

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Potential Impact:	The CDC messages will be dumped to the CALEA ROP.	
Priority :	Low	
Action to be considered:	Contact Lucent TSS personnel	

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7. RECENT CHANGE VIEWS - CLASS 33

For your convenience, this chapter contains a detailed description of each Class 33 recent change view used by network administrators or others involved in the provisioning tasks for the CALEA feature set.

These views, along with all other recent change views referenced in this information product are also documented in 235-118-25x, *5ESS[®] Switch Recent Change Reference*. Also, detailed procedures for the general use of the switch's Recent Change interface are documented in 235-118-251, *Recent Change Procedures*.

NOTE: The views contained in this Chapter apply to the 5E15 software release. The 33 class of views were **not** modified for the CALEA application between the 5E14 and 5E15 software releases. View 33.2 was modified in the 5E15 software release due to a non-CALEA feature and is documented appropriately. Please refer to

- 235-118-255, 5ESS[®] Switch Recent Change Reference 5E14 Software Release, for 5E14-specific documentation.
- 235-118-256, 5ESS[®] Switch Recent Change Reference 5E15 Software Release, for 5E15-specific documentation.
- 235-118-257, 5ESS[®] Switch Recent Change Reference 5E16.1 Software Release, for 5E16.1-specific documentation.
- 235-118-258, 5ESS[®] Switch Recent Change Reference 5E16.2 Software Release, for 5E16.2-specific documentation.
- 235-118-259, 5ESS[®] Switch Recent Change Reference 5E17.1 Software Release, for 5E17.1-specific documentation.

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33V1 INTERNET PROTOCOL (RC_IPPROC)

Form ID: 33V1 Form Name: RC_IPPROC View ID: RVIPPROC Title: INTERNET PROTOCOL (IP) PROCESSOR ASSIGNMENT

1. VIEW DESCRIPTION:

The INTERNET PROTOCOL (IP) PROCESSOR ASSIGNMENT view (33.1) provides the capability to provision up to five IP addresses and subnet masks, and associated IP, TCP and UDP parameters to a processor (SM or PH).

1.1 VIEW INFORMATION:

SOFTWARE RELEASE = 5E15

OFFICE RECORD(S) = (5987)

ODA FORM NAME = ipproc ODA FORM TITLE = INTERNET PROTOCOL (IP) PROCESSOR ASSIGNMENT ODA OFFICE RECORD(S) = 5987

VIEW PERMISSIONS = RUDI MAXIMUM TIME OUT = 330

FUNCTION NAME = vipproc

ERROR ID = 660

5ESS SWITCH SCREEN 1 OF 2 RECENT CHANGE 33.1 (5987) INTERNET PROTOCOL (IP) PROCESSOR ASSIGNMENT	
*1. PROCESSOR ID *2. PROCESSOR TYPE (*)3. QUALIFIER 2 (*)4. QUALIFIER 3	
5. IP ADDRESS	
ROW LOCAL IP ADDR IP SUBNET MASK	
2	
³ ,,,,,,, _	
4	
5	

5ESS SWITCH

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SCREEN 2 OF 2 (5987)	RECENT CHANGE 33.1 INTERNET PROTOCOL (IP) PROCESSOR ASSIGNMENT
IP PARAMETER ASSIGNMENT 16. REASSEM TIMER 17. ICMP ERR CNT 18. MTU ENABLE 19. MTU DISC	UDP PARAMETER ASSIGNMENT 23. UDP CHKSUM EN 24. UDP START PORT 25. UDP DEF TTL
TCP PARAMETER ASSIGNMEN	Γ.
20. TCP MSS	
21. TCP START PORT	_
22. TCP DEF TTL	

2. FIELD DEFINITIONS

* 1. PROCESSOR ID - (PROCESSORID) - (domain IM) - The ID of the processor. For SM, the SM number. For PH, the number of the SM on which the PH resides.

Domain: Enter a number from 1 to 192.

Default: no default

- 2. PROCESSOR TYPE (PROCESSORTYPE) (domain PRCTP) The type of processor.
 - Domain: Enter SM or PH.

Default: no default

Form Checks:

If PROCESSORTYPE equals "SM", then do the following:

QUALIFIER2 is set to unspecified.

QUALIFIER3 is set to unspecified.

If PROCESSORTYPE equals "PH", then QUALIFIER2 must be specified.

If PROCESSORTYPE equals "PH", then QUALIFIER3 must be specified.

(*) 3. QUALIFIER 2 - (QUALIFIER2) - (domain 10_254) - Second qualifier of the processor address. For a PH, this field is the PSU community address (COM ADDR) found on RC view 22.2, Packet Switch Unit.

Domain:

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For an SM, leave blank. For a PH enter a number from 1 - 254.

Default: no default

Form Checks:

See form check(s) for PROCESSORTYPE.

(*) 4. QUALIFIER 3 - (QUALIFIER3) - (domain QUAL3) - Third qualifier of the processors address.

Domain:

For an SM, leave blank. For a PH, enter PSU SHELF [0-4] (RC view 22.16) and channel group [00-15] (GRP from RC view 22.16).

Default: no default

Form Checks:

See form check(s) for PROCESSORTYPE.

5. IP ADDRESS - (IPADDRESS) - (domain positional list with 5 rows) - IP addresses consisting of a Local IP address and subnet mask. At least one IP address must be specified.

Form Checks:

For every element in the list IPADDRESS do the following:

If IPSUBNETMASK. IPADDR0 is specified, then IPSUBNETMASK. IPADDR0 must equal "255".

If LOCALIPADDR.IPADDR0 is specified, then LOCALIPADDR.IPADDR0 must be in {"001" thru "126", "128" thru "223"}.

On IPADDRESS element, do the following:

If LOCALIPADDR is specified, then IPSUBNETMASK must be specified.

If IPSUBNETMASK is specified, then LOCALIPADDR must be specified.

If LOCALIPADDR is specified, then LOCALIPADDR.IPADDR0 concatenated with LOCALIPADDR.IPADDR1 concatenated with LOCALIPADDR.IPADDR2 concatenated with LOCALIPADDR.IPADDR3 must be in {"001000000001" thru "126255255254", "128001000001" thru "191254255254", "12800100001" thru "191254255254", "12800100001" thru "223255254254"].

If LOCALIPADDR.IPADDR0 is in {"001" thru "126"}, then do the following:

IPSUBNETMASK.IPADDR0 concatenated with IPSUBNETMASK.IPADDR1 concatenated with IPSUBNETMASK.IPADDR2 concatenated with IPSUBNETMASK.IPADDR3 must be in {"255000000000", "255192000000" thru "255255255000"}.

LOCALIPADDR.IPADDR1 concatenated with LOCALIPADDR.IPADDR2 concatenated with LOCALIPADDR.IPADDR3 must not be in {"000000000", "255255255"}.

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If LOCALIPADDR. IPADDR0 is in {"128" thru "191"}, then do the following:

IPSUBNETMASK.IPADDR0 concatenated with IPSUBNETMASK.IPADDR1 concatenated with IPSUBNETMASK.IPADDR2 concatenated with IPSUBNETMASK.IPADDR3 must be in {"255255000000", "255255192000" thru "255255255000"}.

LOCALIPADDR.IPADDR2 concatenated with LOCALIPADDR.IPADDR3 must not be in {"000000", "255255"}.

If LOCALIPADDR. IPADDR0 is in {"192" thru "223"}, then do the following:

IPSUBNETMASK.IPADDR0 concatenated with IPSUBNETMASK.IPADDR1 concatenated with IPSUBNETMASK.IPADDR2 concatenated with IPSUBNETMASK.IPADDR3 must be in {"255255255000", "255255255192" thru "255255255240"}.

LOCALIPADDR.IPADDR3 must not be in {"000", "255"}.

See form check(s) for IPADDRESS.LOCALIPADDR.

LOCAL IP ADDR - (IPADDRESS.LOCALIPADDR) - (structure domain CIPADDR) - Local IP address which is to be assigned to the processor.

Domain:

For Local IP address set 1, enter 0 - 126 for Class A, 128 - 191 for Class B, or 192 - 223 for Class C. For Local IP address set 2, 3, and 4, enter 0 - 255.

Form Checks:

The count of elements of {select LOCALIPADDR from IPADDRESS} must be greater than 0.

{Select LOCALIPADDR from IPADDRESS} must be a unique set.

- (IPADDRESS.LOCALIPADDR.IPADDR0) - (domain C0_255RZ) - .

Default: no default

- (IPADDRESS.LOCALIPADDR.IPADDR1) - (domain C0_255RZ) - .

Default: no default

- (IPADDRESS.LOCALIPADDR.IPADDR2) - (domain C0_255RZ) - .

Default: no default

- (IPADDRESS.LOCALIPADDR.IPADDR3) - (domain C0_255RZ) - .

Default: no default

IP SUBNET MASK - (IPADDRESS.IPSUBNETMASK) - (structure domain CIPADDR) - IP subnet mask to be assigned to the processor.

Domain:

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Blank, or enter 255 for IP subnet mask set 1. Blank, or enter 0 - 255 for IP subnet mask set 2, 3, and 4.

- (IPADDRESS.IPSUBNETMASK.IPADDR0) - (domain C0_255RZ) - .

Default: no default

- (IPADDRESS.IPSUBNETMASK.IPADDR1) - (domain C0_255RZ) - .

Default: no default

- (IPADDRESS.IPSUBNETMASK.IPADDR2) - (domain C0_255RZ) - .

Default: no default

- (IPADDRESS.IPSUBNETMASK.IPADDR3) - (domain C0_255RZ) - .

Default: no default

 REASSEM TIMER - (REASSEMTIMER) - (domain I1_255) - Time in seconds that the processor waits to process a packet.

Domain: Enter 1 to 255 seconds

Default: default = 60

17. ICMP ERR CNT - (ICMPERRCNT) - (domain I20_255) - Number of bytes returned in internet control message protocol (ICMP) error reporting message for this processor.

Domain: Enter 20 to 255 bytes.

Default: default = 64

18. MTU ENABLE - (MTUENABLE) - (domain BOOL) - Flag to indicate whether the maximum transmission unit discovery algorithm is enabled.

Domain:

Enter Y for yes or N for no.

Default: default = N

19. MTU DISC - (MTUDISC) - (domain I10_10000) - Interval in seconds at which the path maximum transmission unit (MTU) discovery algorithm tries to increase the MTU.

Domain:

Enter 10 to 10000 seconds.

Default: default = 30

20. TCP MSS - (TCPMSS) - (domain 1108_8000) - The maximum segment size for the transmission control protocol in bytes.

Domain:

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Enter 108 to 8000 bytes.

Default: default = 536

21. TCP START PORT - (TCPSTARTPORT) - (domain I32768_65535) - Lowest automatically allocated (ephemeral) port number for a transmission control protocol connection. Modifying the TCP Start Port field may result in the tear down of any/all currently existing sockets.

Domain:

Enter a number from 32768 to 65535.

Default: default = 49152

Form Checks:

If the database operation equals "U", then TCPSTARTPORT must equal OLDTCPPORT, otherwise the following warning will be issued: "Updating the TCP starting ephemeral port may reset existing TCP connections using this processor."

See form check(s) for IPADDRESS.LOCALIPADDR.

22. TCP DEF TTL - (TCPDEFTTL) - (domain I1_255) - The number of intermediate hops a packet can make before being discarded (one hop is assumed to take one second).

Domain: Enter 1 to 255.

Default: default = 255

23. UDP CHKSUM EN - (UDPCHKSUMEN) - (domain BOOL) - Flag to indicate if the datagram protocol checksum option is enabled.

Domain: Enter Y for yes or N for no.

Default: default = Y

24. UDP START PORT - (UDPSTARTPORT) - (domain I32768_65535) - Lowest automatically allocated (ephemeral) port number for a datagram protocol connection. Modifying the UDP Start Port field may result in the tear down of any/all currently existing sockets.

Domain:

Enter a number from 32768 to 65535.

Default: default = 49152

Form Checks:

If the database operation equals "U", then UDPSTARTPORT must equal OLDUDPPORT, otherwise the following warning will be issued: "Updating the UDP starting ephemeral port may reset existing UDP connections using this processor."

See form check(s) for IPADDRESS.LOCALIPADDR.

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25. UDP DEF TTL - (UDPDEFTTL) - (domain I1_255) - The number of intermediate hops a packet can make before being discarded (one hop is assumed to take one second).

Domain: Enter 1 to 255.

Default: default = 255

3. TRIGGER FUNCTIONS

BASE RELATION = TRIGGER FUNCTION (PERMISSIONS)

RLIPTOPCR = PSiptopcr (iud) RLPCRTOIP = PSpcrtoip (ud) RLPROTPARM = PSprotparm (iud)

4. BASE RELATIONS

(PERMISSIONS) BASE RELATION - DISTRIBUTION

 $\label{eq:constraint} \begin{array}{l} (r) \ RLDSLGDATA \ --- \ FP \\ (r) \ RLPODATT \ -- \ LR \\ (r) \ RLPSUSM \ -- \ LRFP \\ (u) \ RLIPADRLOC \ -- \ FR \\ (u) \ RLIPOPCR \ -- \ FR \\ (u) \ RLOCIPADR \ -- \ LP \\ (u) \ RLPCRTOIP \ -- \ FR \\ (u) \ RLPCOTPARM \ -- \ FP \\ (u) \ RLRC \ -- \ LP \\ (u) \ RLRC \ -- \ LP \\ (u) \ RLRC \ -- \ LP \end{array}$

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33V2 INTERNET PROTOCOL (RC_IPINTF)

Form ID: 33V2 Form Name: RC_IPINTF View ID: RVIPINTF Title: INTERNET PROTOCOL (IP) INTERFACE ASSIGNMENT

1. VIEW DESCRIPTION:

The INTERNET PROTOCOL (IP) INTERFACE ASSIGNMENT view (33.2) provides the capability to provision up to five IP addresses and subnet masks, and associated IP parameters to an internet interface. View may be keyed by:

- PKT TN and LCN
- PKT MLHG, PKT MEMB and LCN
- TGN, TGN MEMB and LCN
- OE, ISCN and LCN

1.1 CHANGES THIS RELEASE:

 The allowed range of multiline hunt group was increased from 1 - 2000 to 1 - 8191 for the Multiline Hunt Group Capacity Expansion feature. This feature was first made available in the 5E15 software release.

1.2 VIEW INFORMATION:

SOFTWARE RELEASE = 5E15

OFFICE RECORD(S) = (5988)

ODA FORM NAME = ipintf ODA FORM TITLE = INTERNET PROTOCOL (IP) INTERFACE ASSIGNMENT ODA OFFICE RECORD(S) = 5988

VIEW PERMISSIONS = RUDI MAXIMUM TIME OUT = 330

FUNCTION NAME = vipintf

ERROR ID = 831

	5ESS SWITCH RECENT CHANGE 33.2
(5988)	INTERNET PROTOCOL (IP) INTERFACE ASSIGNMENT
(*)1. PKT TN	12. IP ADDRESS
(*)2. PKT MLHG	ROW GATEWAY IP ADDR IP SUBNET MASK

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(*)3.	PKT MEMB		1			··	·	•
(*)4.	TGN		2			··		·
(*)5.	TGN MEMB		3			••		•
(*)6.	OE	5 <u></u> 5	4					•
(*)9.	ISCN		5	**		••		•
*10.	LCN							
#11.	INTERFACE NAM	E	23.	MCAST ADDR				
			28.	MTU SIZE				
			29.	CALEA IN USE	_			

2. FIELD DEFINITIONS

(*) 1. PKT TN - (PKTTN) - (domain PKTTN) - Packet switching telephone number that can either be an individual packet TN on a DSL (PPB1 or PPB2) or an XAT TN.

Domain:

Enter a 7 or 10 digit telephone number of the form NXXXXXX or NXXNXXXXX, where N is a number from 2 to 9 and X is a number from 0 to 9.

Interactions: This PKT TN must be provisioned with a destination facility type (FCL TYPE) of INET on View 23.11.

Default: no default

Form Checks:

(PKTTN must be specified and PKTMLHG must be unspecified and PKTMEMB must be unspecified and TGN must be unspecified and TGNMEMB must be unspecified and OE must be unspecified and ISCN must be unspecified) or (PKTMLHG must be specified and PKTMEMB must be specified and PKTTN must be unspecified and TGN must be unspecified and OE must be unspecified and COE must be unspecified and TGN must be unspecified and TGNMEMB must be unspecified and OE must be unspecified and SCN must be unspecified and TGNMEMB must be unspecified and PKTTN must be unspecified and PKTMLHG must b

(*) 2. PKT MLHG - (PKTMLHG) - (domain MLHG) - This field specifies the group number for a packet switching multiline hunt group.

Domain:

Blank, or enter a number from 1 to 8191.

Interactions: This PKT MLHG and member must be provisioned with a destination facility type (FCL TYPE) of INET on View 23.11.

Default: no default

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Form Checks:

See form check(s) for PKTTN.

(*) 3. PKT MEMB - (PKTMEMB) - (domain MEMBR1) - This field specifies the number of a particular member within the specified packet switching multiline hunt group. The PKT MLHG and PKT MEMB combination can either be an individual packet service on a DSL (PPB1 or PPB2) or an XAT.

Domain:

Enter a number from 1 to 2015.

Interactions: This PKT MEMB and group must be provisioned with a destination facility type (FCL TYPE) of INET on View 23.11.

Default: no default

Form Checks:

See form check(s) for PKTTN.

(*) 4. TGN - (TGN) - (domain TRKGRP1) - This field specifies the group number for the trunk associated with the IP interface.

Domain:

Enter a number from 1 to 4000.

Interactions: This field can only be greater than 2000 when the Increased Number of Trunk Groups (SFID 172) feature has been purchased using the Secured Feature Upgrade view (8.22). This TGN and member must be provisioned with a destination facility type (FCL TYPE) of INET on view 5.5.

Default: no default

Form Checks:

See form check(s) for PKTTN.

(*) 5. TGN MEMB - (TGNMEMB) - (domain X75PMEMB) - This field specifies the number of a particular trunk member within the specified trunk group.

Domain:

Enter a number from 0 to 23.

Interactions: This TGN MEMB and TGN must be provisioned with a destination facility type (FCL TYPE) of INET on View 5.5

Default: no default

Form Checks:

See form check(s) for PKTTN.

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(*) 6. OE - (OE) - (structure domain DSLXATOE) - Enter one alphabetic character followed by an equipment number of the following format:

Form Checks:

See form check(s) for PKTTN.

- (OE.LCENTYPE) - (domain DSLXATOETY) - Office equipment line card equipment type.

Domain:

Enter A, D, E, G, I, K, N, or O where:

Where:

A =	INEN [Integrated Digital Loop Carrier (IDLC) Network Equipment
	Number].
D =	DEN [Digital Line Trunk Unit Equipment Number].
E=	AIUEN [Digital (U Circuit) Access Interface Unit (AIU) Equipment
	Number].
G =	GEN [GAMA-Integrated Digital Carrier Unit (IDCU) Equipment Number].
1 =	ISDN [Digital (U & T Card) Integrated Services Line Unit (ISLU)
	Equipment Number].
K =	LCKEN [Digital (T & U Circuit) Integrated Services Line Unit 2 (ISLU2)
	Equipment Number].
N =	NEN [Digital Networking Unit - SONET (DNU-S) Equipment Number].
O =	OIUEN [Optical Interface Unit Equipment Number]

Default: no default

- (OE.LCEN) - (domain LEN) - Office equipment line card equipment number.

Domain:

For INEN [Integrated Digital Loop Carrier (IDLC) Network Equipment Number], enter (1-192) (0-7) (01-99) (0001-2048) where:

Where:

(1-192) =	SM (Switching Module)
(0-7) =	DNUS (Digital Networking Unit - SONET)
(01-99) =	RT (Remote Terminal)
(0001-2048) =	LINE (Remote Line)

For DEN [Digital Trunk Equipment Number], enter (1-192) (0-5) (01-10) (01-48) where:

Where:

(1-192) =	SM (Switching Module)
(0-5) =	DLTU (Digital Line Trunk Unit)
(01-10) =	DFI (Digital Facility Interface)
(01-48) =	DCHAN (Digital Channel)

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For AIUEN [Digital (U Circuit) Access Interface Unit Equipment Number], enter (1-192) (000-104) (00-19) (00-15) where:

Where:

(1-192) =	SM (Switching Module)
(000-104) =	AIU (Access Interface Unit)
(00-19) =	PACK (Pack number)
(00-15) =	CKT (Circuit number)

For RT GEN [GAMA-Integrated Digital Carrier Unit (IDCU) Equipment Number], enter (1-192) (00-42) (01-31) (0001-2048) where:

Where:

(1-192) =	SM (Switching Module)	
(00-42) =	IDCU (Integrated Digital Carrier Unit)	
(01-31) =	RT (Remote Terminal)	
(0001-2048) =	LINE (Remote Line)	

For ISDN [Digital (U & T Card) Integrated Services Line Unit (ISLU) Equipment Number], enter (1-192) (0-7) (00-15) (00-31) where:

Where:

(001-192) =	SM (Switching Module)
(0-7) =	ISLU (Integrated Services Line Unit)
(00-15) =	LGC (Line Group Card)
(00-31) =	LC (Line Card)

For LCKEN [Digital (T & U Circuit) Integrated Services Line Unit 2 (ISLU2) Equipment Number], enter (1-192) (00-42) (00-15) (0-7) (00-07) where:

Where:

(1-192) =	SM (Switching Module)	
(00-42) =	ISLU2 (Integrated Services Line Unit Two)	
(00-15) =	LGC (Line Group Card)	
(0-7) =	L Board (Line Board).	
(00-07) =	L Circuit (Line Circuit)	

For NEN [Digital Networking Unit - SONET (DNU-S) Equipment Number], enter (1-192) (0-7) (0-1) (0-5) (01-28) (01-24) where:

Where:

(1-192) =	SM (Switching Module)
(0-7) =	DNUS (Digital Networking Unit - SONET)

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(0-1) =	DG (Data Group)
(0-5) =	STS (Synchronous Transport Signal number)
(01-28) =	VT (Virtual Tributary)
(01-24) =	DS0 (Digital Signal Level 0 channel)

For OUIEN [Optical Interface Unit Equipment Number], enter (000-192) (0-7) (0-9) (1) (1-3) (1-7) (1-4) where:

Where:

(000-192) =	SM (Switching Module)
(0-7) =	OIU (Optical Interface Unit Number)
(0-1) =	PG (Protection Group Number)
(1) =	OC-3 (Optical Carrier Level-3 Number)
(1-3) =	STS (Synchronous Transport Signal Number)
(1-7) =	VTG (Virtual Tributary Group)
(1-4) =	VTM (Virtual Tributary Member)
(1-28) =	CH (Channel Number)

Default: no default

(*) 9. ISCN - (ISCN) - (domain ISCN) - This field specifies the ISCN to which the address is to be assigned.

Domain:

Enter SU shelf[0-4] CHL group [00-15] PH chan [000-127]

Default: no default

Form Checks:

See form check(s) for PKTTN.

 * 10. LCN - (LCN) - (domain LCN1) - This field defines the Logical Channel Number for the packet switching interface.

Domain:

Enter a number from 1 to 127.

Default: no default

11. INTERFACE NAME - (INTERFACENAME) - (domain INTFNM) - This field specifies the name of the interface.

Domain:

Enter name starting with an alphanumeric character followed by 4 to 18 characters including !', '_' or '-'.

Default: no default

12. IP ADDRESS - (IPADDRESS) - (domain positional list with 5 rows) - Gateway or interface addresses consisting of an IP address and subnet mask. At least one IP address must be specified.

Form Checks:

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For every element in the list IPADDRESS do the following:

If IPSUBNETMASK.IPADDR0 is specified, then IPSUBNETMASK.IPADDR0 must equal 255.

If GATEWAYIPADDR.IPADDR0 is specified, then GATEWAYIPADDR.IPADDR0 must be in {"001" thru "126", "128" thru "223"}.

On IPADDRESS element, do the following:

If GATEWAYIPADDR is specified, then IPSUBNETMASK must be specified.

If IPSUBNETMASK is specified, then GATEWAYIPADDR must be specified.

If GATEWAYIPADDR is specified, then GATEWAYIPADDR.IPADDR0 concatenated with GATEWAYIPADDR.IPADDR1 concatenated with GATEWAYIPADDR.IPADDR2 concatenated with GATEWAYIPADDR.IPADDR3 must be in {"001000000001" thru "126255255254", "128001000001" thru "191254255254", "12800100001" thru "191254255254", "192000001001" thru "223255254254"}.

If GATEWAYIPADDR. IPADDR0 is in {"001" thru "126"}, then do the following:

IPSUBNETMASK.IPADDR0 concatenated with IPSUBNETMASK.IPADDR1 concatenated with IPSUBNETMASK.IPADDR2 concatenated with IPSUBNETMASK.IPADDR3 must be in {"255000000000", "255192000000" thru "255255255000"}.

GATEWAYIPADDR.IPADDR1 concatenated with GATEWAYIPADDR.IPADDR2 concatenated with GATEWAYIPADDR.IPADDR3 must not be in {"000000000", "255255255"}.

If GATEWAYIPADDR. IPADDR0 is in {"128" thru "191"}, then do the following:

IPSUBNETMASK. IPADDR0 concatenated with IPSUBNETMASK. IPADDR1 concatenated with IPSUBNETMASK. IPADDR2 concatenated with IPSUBNETMASK. IPADDR3 must be in {"255255000000", "255255192000" thru "255255255000"}.

GATEWAYIPADDR.IPADDR2 concatenated with GATEWAYIPADDR.IPADDR3 must not be in {"000000", "255255"}.

If GATEWAYIPADDR. IPADDR0 is in {"192" thru "223"}, then do the following:

IPSUBNETMASK.IPADDR0 concatenated with IPSUBNETMASK.IPADDR1 concatenated with IPSUBNETMASK.IPADDR2 concatenated with IPSUBNETMASK.IPADDR3 must be in {"255255255000", "255255255192" thru "255255255240"}.

GATEWAYIPADDR.IPADDR3 must not be in {"000", "255"}.

See form check(s) for IPADDRESS.GATEWAYIPADDR.

GATEWAY IP ADDR - (IPADDRESS.GATEWAYIPADDR) - (structure domain CIPADDR) - IP address to be assigned to the interface.

Domain:

For Gateway IP address set 1, enter 001 - 126 for Class A, 128 - 191 for Class B, or 192 - 223 for Class

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June 2003 C. For Gateway IP address set 2, 3, and 4, enter 0 - 255. Form Checks: The count of elements of {select GATEWAYIPADDR from IPADDRESS} must be greater than 0. {Select GATEWAYIPADDR from IPADDRESS} must be a unique set. - (IPADDRESS.GATEWAYIPADDR.IPADDR0) - (domain C0_255RZ) - . Default: no default - (IPADDRESS.GATEWAYIPADDR.IPADDR1) - (domain C0_255RZ) - . Default: no default - (IPADDRESS.GATEWAYIPADDR.IPADDR2) - (domain C0_255RZ) - . Default: no default - (IPADDRESS.GATEWAYIPADDR.IPADDR3) - (domain C0_255RZ) - . Default: no default IP SUBNET MASK - (IPADDRESS.IPSUBNETMASK) - (structure domain CIPADDR) - IP subnet mask to be assigned to the interface. Enter 255 for IP subnet mask set 1. Enter 0 - 255 for IP subnet mask set 2, 3, and 4. - (IPADDRESS.IPSUBNETMASK.IPADDR0) - (domain C0_255RZ) - . Default: no default - (IPADDRESS.IPSUBNETMASK.IPADDR1) - (domain C0_255RZ) - . Default: no default - (IPADDRESS.IPSUBNETMASK.IPADDR2) - (domain C0_255RZ) - . Default: no default - (IPADDRESS.IPSUBNETMASK.IPADDR3) - (domain C0_255RZ) - .

Default: no default

23. MCAST ADDR - (MCASTADDR) - (structure domain CIPADDR) - This field defines the multicast address for the interface.

Domain:

Domain:

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Blank, or enter 224 - 239 for Multicast IP address set 1. Blank, or enter 0 - 255 for Multicast IP address set 2, 3, and 4.

- (MCASTADDR.IPADDR0) - (domain C0_255RZ) - .

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Default: no default

Form Checks:

If MCASTADDR.IPADDR0 is specified, then MCASTADDR.IPADDR0 must be in {224 thru 239}.

- (MCASTADDR.IPADDR1) - (domain C0_255RZ) - .

Default: no default

- (MCASTADDR.IPADDR2) - (domain C0_255RZ) -

Default: no default

- (MCASTADDR.IPADDR3) - (domain C0_255RZ) - .

Default: no default

28. MTU SIZE - (MTUSIZE) - (domain I128_1600) - This field defines the maximum number of bytes per transfer from this interface.

Domain: Enter 128 to 1600 bytes

Default: default = 256

29. CALEA IN USE - (CALEAINUSE) - (domain BOOL) - This field indicates if this interface is in use by the CALEA Application.

Domain: Enter Y for yes or N for no.

Default: default = N

3. TRIGGER FUNCTIONS

BASE RELATION = TRIGGER FUNCTION (PERMISSIONS)

RLIPINTCNF = PSipintcnf (iud) RLIPRTTAB = PSiprttab (iud)

4. BASE RELATIONS

(PERMISSIONS) BASE RELATION - DISTRIBUTION

(r) RLDSLEQUIP — FP (r) RLEQUIPDSL — FP (r) RLPR_DNTRAN — FG

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(r) RLPSGP_PRT — LPFPFG (r) RLPSPVCINF — FP (r) RLRT_MHG — LPFR (u) RLINTFNAM — LP (u) RLIPADRLOC — FR (u) RLIPINTCNF — FP (u) RLIPRTTAB — FP (u) RLLOCIPADR — LP (u) RLNAMINTF — LP (u) RLNAMINTF — LP (u) RLRC_HOLE — LP (u) RLRC_QIDX — LP

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33V3 INTERNET PROTOCOL (RC_IPROUT)

Form ID: 33V3 Form Name: RC IPROUT View ID: RVIPROUT Title: INTERNET PROTOCOL (IP) ROUTING TO INTERFACE

1. VIEW DESCRIPTION:

The INTERNET PROTOCOL (IP) ROUTING TO INTERFACE view (33.3) provides the capability to provision an IP gateway between an external IP destination and a local IP interface.

1.1 VIEW INFORMATION:

SOFTWARE RELEASE = 5E15

OFFICE RECORD(S) = (5989)

ODA FORM NAME = iprout ODA FORM TITLE = INTERNET PROTOCOL (IP) ROUTING TO INTERFACE ODA OFFICE RECORD(S) = 5989

VIEW PERMISSIONS = RUDI MAXIMUM TIME OUT = 330

FUNCTION NAME = viprout

ERROR ID = 832

(5

#1

5989)			5ESS SWITCH RECENT CHANGE 33.3 INTERNET PROTOCOL (IP) ROUTING TO INTERFACE							
*6.	DEST IP ADDR _ INTERFACE NAME _ NET OR HOST _		·	•	·					
8.	IP SUBNET MASK _	_								
	GATEWAY IP ADDR _ ROUTE METRIC		ð							

2. FIELD DEFINITIONS

* 1. DEST IP ADDR - (DESTIPADDR) - (structure domain CIPADDR) - This field specifies one of the

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network or host IP addresses that can be reached via this route.

Domain:

For Destination IP address set 1, enter 001 - 126 for Class A, 128 - 191 for Class B, or 192 - 223 for Class C. For Destination IP address set 2, 3, and 4, enter 0 - 255.

- (DESTIPADDR.IPADDR0) - (domain C0_255RZ) - .

Default: no default

Form Checks:

DESTIPADDR.IPADDR0 must be in {"001" thru "126", "128" thru "223"}.

DESTIPADDR.IPADDR0 concatenated with DESTIPADDR.IPADDR1 concatenated with DESTIPADDR.IPADDR2 concatenated with DESTIPADDR.IPADDR3 must be in {"001000000001" thru "126255255254", "128001000001" thru "191254255254", "19200001001" thru "191254255254", "19200001001" thru "233255254254").

See form check(s) for NETORHOST.

- (DESTIPADDR.IPADDR1) - (domain C0_255RZ) - .

Default: no default

Form Checks:

See form check(s) for DESTIPADDR.IPADDR0.

- (DESTIPADDR.IPADDR2) - (domain C0_255RZ) - .

Default: no default

Form Checks:

See form check(s) for DESTIPADDR.IPADDR0.

- (DESTIPADDR.IPADDR3) - (domain C0_255RZ) - .

Default: no default

Form Checks:

See form check(s) for DESTIPADDR.IPADDR0.

* 6. INTERFACE NAME - (INTERFACENAME) - (domain INTFNM) - This field assigned on view 33.2 specifies the name of and interface.

Domain:

Enter name starting with an alphanumeric character followed by 4 to 18 characters including 1., 1. or 1-.

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Default: no default

7. NET OR HOST - (NETORHOST) - (domain NETHOST) - This field indicates if the destination IP address given is a network or host IP address.

Domain: Enter NET or HOST.

Default: default = NET

Form Checks:

If NETORHOST equals "NET", then do the following:

If DESTIPADDR.IPADDR0 is in {"001" thru "126"}, then IPSUBNETMASK.IPADDR0 concatenated with IPSUBNETMASK.IPADDR1 concatenated with IPSUBNETMASK.IPADDR2 concatenated with IPSUBNETMASK.IPADDR3 must be in {"25500000000", "255192000000" thru "255255255000"}.

If DESTIPADDR.IPADDR0 is in {"128" thru "191"}, then IPSUBNETMASK.IPADDR0 concatenated with IPSUBNETMASK.IPADDR1 concatenated with IPSUBNETMASK.IPADDR2 concatenated with IPSUBNETMASK.IPADDR3 must be in {"255255000000", "255255192000" thru "255255255000"}.

If DESTIPADDR. IPADDR0 is in {"192" thru "223"}, then IPSUBNETMASK. IPADDR0 concatenated with IPSUBNETMASK. IPADDR1 concatenated with IPSUBNETMASK. IPADDR2 concatenated with IPSUBNETMASK. IPADDR3 must be in {"255255255000", "255255255192" thru "255255255240"}.

IPSUBNETMASK must be specified.

If NETORHOST equals "HOST", then IPSUBNETMASK must be unspecified.

8. IP SUBNET MASK - (IPSUBNETMASK) - (structure domain CIPADDR) - This field specifies the subnetwork mask associated with the destination IP address.

Domain:

Blank, or enter 255 for IP subnet mask set 1. Blank, or enter 0 - 255 for IP subnet mask set 2, 3, and 4.

Form Checks:

See form check(s) for NETORHOST.

- (IPSUBNETMASK.IPADDR0) - (domain C0_255RZ) - .

Default: no default

Form Checks:

See form check(s) for NETORHOST.

- (IPSUBNETMASK.IPADDR1) - (domain C0_255RZ) - .

Default: no default

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Form Checks:

See form check(s) for NETORHOST.

- (IPSUBNETMASK.IPADDR2) - (domain C0_255RZ) - .

Default: no default

Form Checks:

See form check(s) for NETORHOST.

- (IPSUBNETMASK.IPADDR3) - (domain C0_255RZ) - .

Default: no default

Form Checks:

See form check(s) for NETORHOST

13. GATEWAY IP ADDR - (GATEWAYIPADDR) - (structure domain CIPADDR) - This field specifies the IP address of the gateway through which data is sent to the destination.

Domain:

For Gateway IP address set 1, enter 001 - 126 for Class A, 128 - 191 for Class B, or 192 - 223 for Class C. For Gateway IP address set 2, 3, and 4, enter 0 - 255.

Interactions: The GATEWAY IP ADDR must be assigned to the INTERFACE NAME with View 33.2.

- (GATEWAYIPADDR.IPADDR0) - (domain C0_255RZ) - .

Default: no default

Form Checks:

GATEWAYIPADDR.IPADDR0 concatenated with GATEWAYIPADDR.IPADDR1 concatenated with GATEWAYIPADDR.IPADDR2 concatenated with GATEWAYIPADDR.IPADDR3 must be in {"001000000001" thru "126255255254", "128001000001" thru "191254255254", "19200001001" thru "23255254254"}.

- (GATEWAYIPADDR.IPADDR1) - (domain C0_255RZ) - .

Default: no default

Form Checks:

See form check(s) for GATEWAYIPADDR.IPADDR0.

- (GATEWAYIPADDR.IPADDR2) - (domain C0_255RZ) - .

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Default: no default

Form Checks:

See form check(s) for GATEWAYIPADDR.IPADDR0.

- (GATEWAYIPADDR.IPADDR3) - (domain C0_255RZ) - .

Default: no default

Form Checks:

See form check(s) for GATEWAYIPADDR.IPADDR0.

18. ROUTE METRIC - (ROUTEMETRIC) - (domain 11_255) - This field specifies the route metric associated with the routing path. This is use for load balancing in multi-routing.

Domain: Enter 1 - 255.

Default: default = 1

3. TRIGGER FUNCTIONS

BASE RELATION = TRIGGER FUNCTION (PERMISSIONS)

RLIPRTTAB = PSiprttab (iud)

4. BASE RELATIONS

(PERMISSIONS) BASE RELATION - DISTRIBUTION

(r) RLINTFNAM — LP (r) RLIPADRLOC — FR (r) RLLOCIPADR — LP (r) RLNAMINTF — LP (u) RLIPRTTAB — FP

GLOSSARY

This section provides acronyms and abbreviations used in this document.

-- --

ACK

Acknowledge

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AM

Administrative Module

AP

Attached Processor

ARS

Automatic Route Selection

ASM

Administrative Services Module

BAUTO

BRCS Autoform

BFG BRCS Feature Group

BMI Batch Mode Immediate (RC)

BMI

Beginning Of Managed Introduction

BMR

Batch Mode Release

BRCS

Business And Residential Custom Services

BRI

Basic Rate Interface

BRI

Batch-Review Inhibited Relation

BST

Bitmap Salvage Technique

CALEA

Communications Assistance for Law Enforcement Act

CAR

Customer Assistance Request

CCC

Call Content Channel

CDC

Call Data Channel

CM1

Communications Module 1

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CM2

Communications Module 2

CMD Command

CPE Customer Premises Equipment

CST

Central Standard Time

DB Database

DB

Database Subsystem

DBM

Database Manager

DBM Database Mode

DEN Digital Equipment Number

DISP

Display

DN Directory Number

DSL

Digital Subscriber Line

DTMF

Dual Tone Multifrequency

ECD Equipment Configuration Data

ECD Equipment Configuration Database

FIOP

Flexible Input/Output Processor

FOA

First Office Application

FAC

Facilities

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FAC

Facility Administration And Control

FAC

Feature Assignment And Construction

FM

Facilities Management

FM

File Manager

HSM

Host Switching Module

IAP Intercept Access Point

IGN

Ignore

IM Immediate Mode (RC)

IM

Input Manual

IM Input Message

M

Interface Module (now SM)

IOP

Input/Output Processor

IP

Internet Protocol

ISDN

Integrated Services Digital Network

LASS

Local Area Signaling Services

LAES

Lawfully Authorized Electronic Surveillance

LATA

Local Access And Transport Area

LCC

Line Class Code

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Law Enforcement Agency

LEC

Local Exchange Carrier

LEN

Line Equipment Number

MC Master Control

madater control

MCC

Maintenance (Master) Control Center

MCC

Master Control Console

MLHG Multi-Line Hunt Group

MML

Man Machine Language

MMRSM

MultiModule Remote Switching Module

MSG Message

MSG Message Switch

MTU

Maximum Transmission Unit

NIC

Network Information Center

NOC Normalized Office Code

Numbering Plan Area

NSC

Network Service Center

NSC

Network Services Complex

NSC

Network Software Center

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NSC

Network Systems Corporation

NXX

Office Code (Part Of Dialed Number)

OA&M

Operations, Administration, And Maintenance

oc

Overload Control

ODA

Office Data (Assembler)

ODA Office Data Administration System

ODA Office Database Administrator

ODB

Office Database ODBE

Office Database Editor

ODD

Office Dependent Data

OE Office Equipment (OEN)

OFR

Office Records

OKP

Operational Kernel Process

OOS

Out Of Service

OP

Operation

ORIG

Originating

ORM

Optical Remote Module

os

OSDS Subsystem

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os

Operating System

os

Operations Support

Operations System

OSPS

Operator Services Position System

OTC

Operating Telephone Company

OTR

Operational Trouble Report

OTR

Operator Trouble Report

PARAM

Parameters

PC

Peripheral Controller

PDC

Packet Data Channel

PF

Printout Follows

PF

Private Facility

PH

Packet Handler

PING

Packet Internet Groper

PSU

Packet Switching Unit

PVC

Permanent Virtual Circuit

RAO

Revenue Accounting Office

RBOC

Regional Bell Operating Company

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RC

Recent Change Subsystem

RC/V

Recent Change And Verify

RCOS

Recent Change Operations System

RCV

Recent Change And Verify

REPT

Report

RMAC

Remote Memory Administration Center

RMAS

Recent Change Memory Administration System

RMAS

Remote Memory Access System

RMAS

Remote Memory Administration System

ROP

Read (Receive) Only Printer

ROP

Receive Only Printer

RSM

Remote Switching Module

RTAC

Regional Technical Assistance Center

RTR

Real Time Reliable

SAI Surveillance Administration Interface

SAS Surveillance Administration System

SAUTO

Shared Autoform

SCCS

Switching Control Center System

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SW Switching Module

STLWS

Supplementary Trunk And Line Work Station

Software Update

TASC Telephone Company Administrative Support Capability

TCP/IP

Transmission Control Protocol/Internet Protocol

TG

Translation Guide

TG Trunk Group

TG-5

5ESS® Switch Translation Guide

TGN

Trunk Group Number

TLWS

Trunk And Line Work Station

TMS

Time Multiplexed Switch

TMS

Transmission Measuring Set

TPKT

Transport Control Protocol Packet

TSP

Telephone Service Provider

TTY Teletypewriter

UTD

Universal Tone Decoder

V

Verify

VDT

Video Display Terminal

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VER Verify

VFY Verify

XAT X.25 Access on a T1

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Table 3-2 : Ultra Terminal Locations

Table 3-3 : SPARC5 Terminal Locations

Table 3-4 : Ultra Terminal Locations

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Brown County, Wisconsin Bomb Squad Robot

Overview

Pictoral overview of the Remotec ANDROS F6 series robot used by the Outagamie/Brown County, Wisconsin Sheriff Department's bomb squad. This line of robots is marketed toward law enforcement agencies specifically for bomb disposal and EOD applications. Remotech is a division of Northrop Grumman.

There are multiple (fixed) color video cameras and a single full 360° pan, tilt, and zoom low–light camera. A halogen lamp provides local area illumination and there's even a microphone/speaker for two–way audio. A water disruptor can be used to neutralize any timing or triggering devices.

It weighs around 500 pounds and the angled track allows the robot to navigate stairs. The unit's power supply is several standard gel–cell batteries providing a total of +24 VDC.

The controlling data link is RF, with an optional wired cable connection. The operator has a tabletop controller and LCD display for the video cameras. I noticed three antennas, two UHF Larsen antennas labeled "DATA" and "AUDIO," and a higher–mounted rubber duck, which is probably for video in the 2.4 GHz range.

There are several FCC licenses assigned for robot use by the Brown Country Sheriff's Department:

FCC License: WQKC738

VIDEO LINK FOR REMOTE BOMB ROBOT USED BY SHERIFF'S DEPT FOR PUBLIC SAFETY AND TO DIFFUSE TERRORIST THREATS FOR HOMELAND SECURITY.

Control Point 1: 300 EAST WALNUT STREET, GREEN BAY, BROWN COUNTY, WI, Phone: 920-448-4218

2462.50000 Mobile, 5 watt(s), 1 unit(s), Mobile, Transmit Location 32km radius around GREEN BAY, BROWN COUNTY, WI

FCC License: WQKC752

AUDIO & DATA LINK FOR REMOTE BOMB ROBOT USED BY SHERIFFS DEPT FOR PUBLIC SAFETY & TO DIFFUSE TERRORIST THREATS FOR HOMELAND SECURITY.

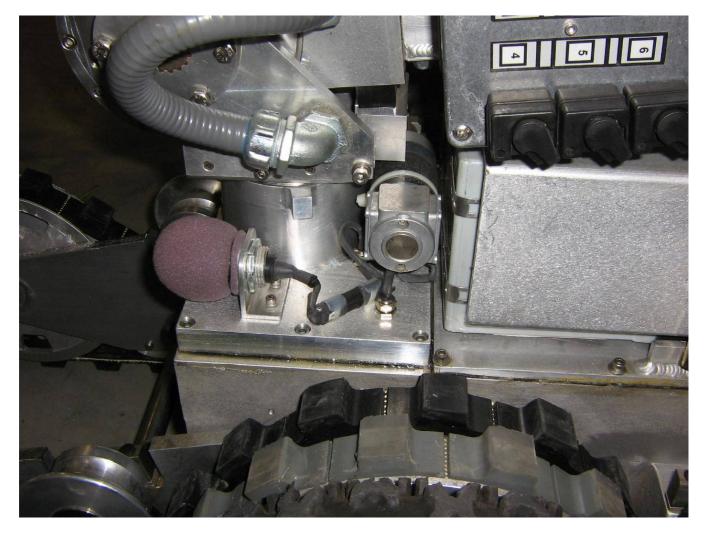
Control Point 1: 300 EAST WALNUT STREET, GREEN BAY, BROWN COUNTY, WI, Phone: 920-448-4218

460.30000	Mobile, 5 watt(s), 3 unit(s), Mobile, Transmit Location
	32km radius around GREEN BAY, BROWN COUNTY, WI
465.30000	Mobile, 15 watt(s), 1 unit(s), Mobile, Transmit Location
	32km radius around GREEN BAY, BROWN COUNTY, WI

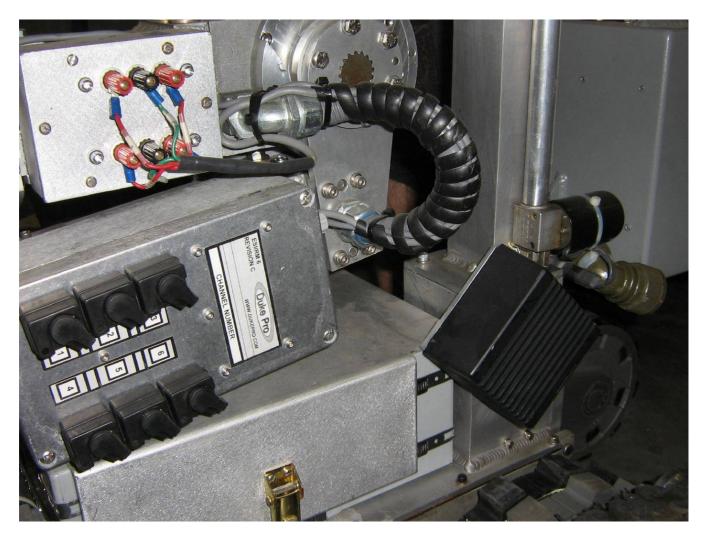
The Milwaukee County bomb squad robot is at 2470 MHz (video) and 453.2625 MHz / 458.2625 MHz for audio and data.



General overview.



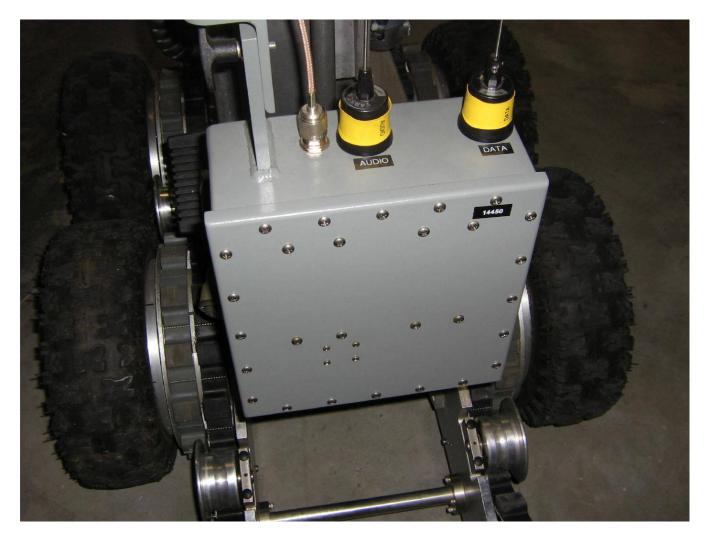
Microphone with wind screen.



Duke Pro ESI/RM6 6-channel shock tube initiator.

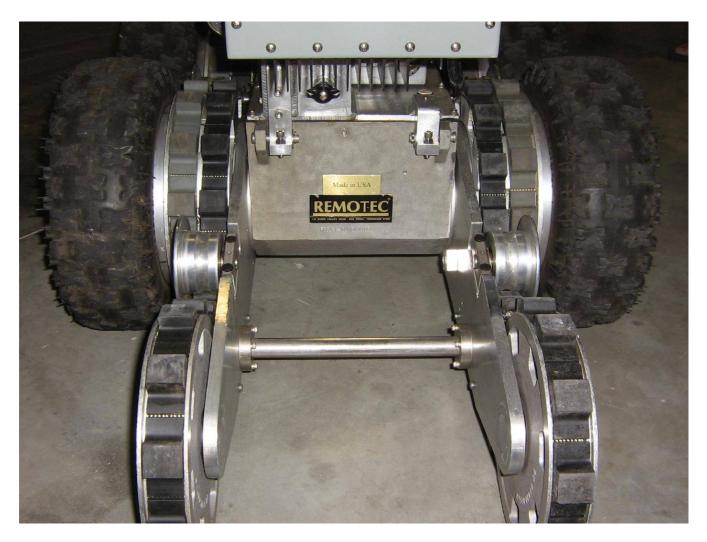


Rear view.

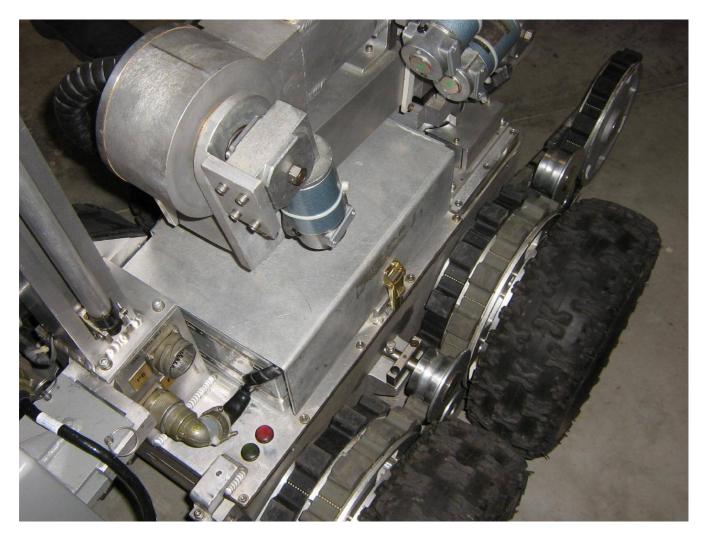


Antenna mounts.

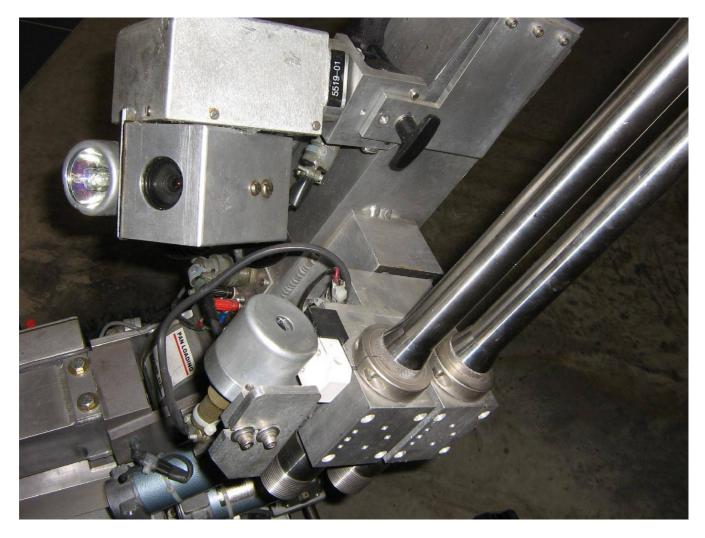
Two Larsen UHF (450 MHz) models and the N connector goes to a rubber duck which is probably used for 2.4 GHz video.



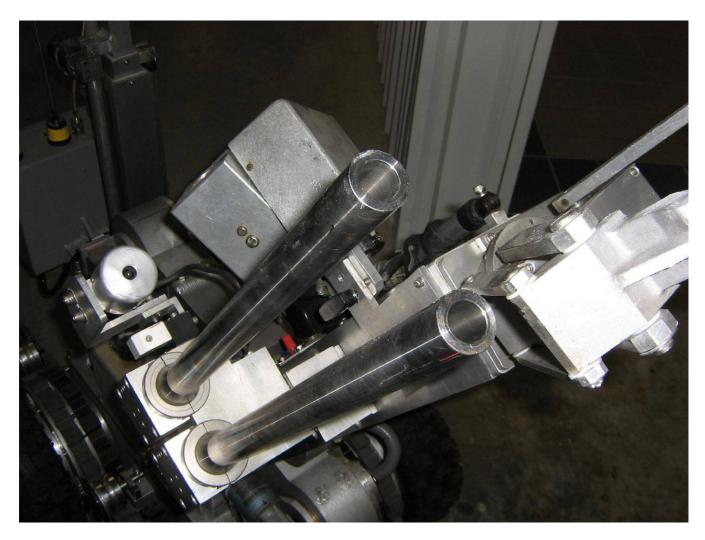
Rear track view.



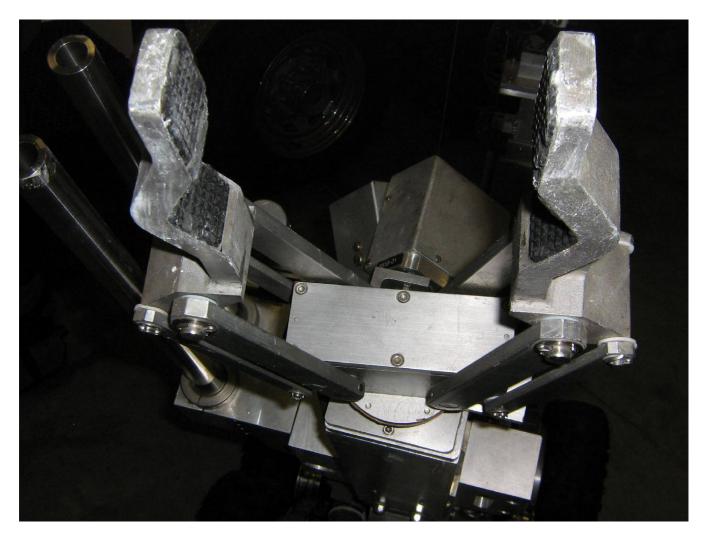
Manipulator arm servos.



Camera and water disruptors on the manipulator arm.

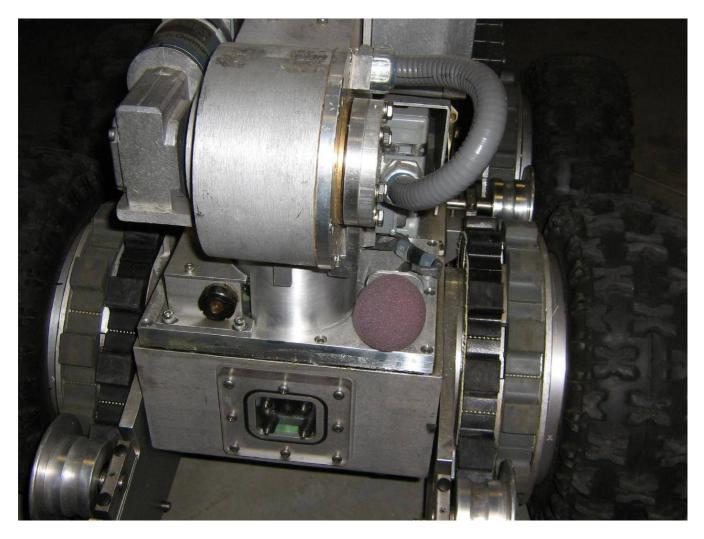


Barrel view of the dual water disruptors.

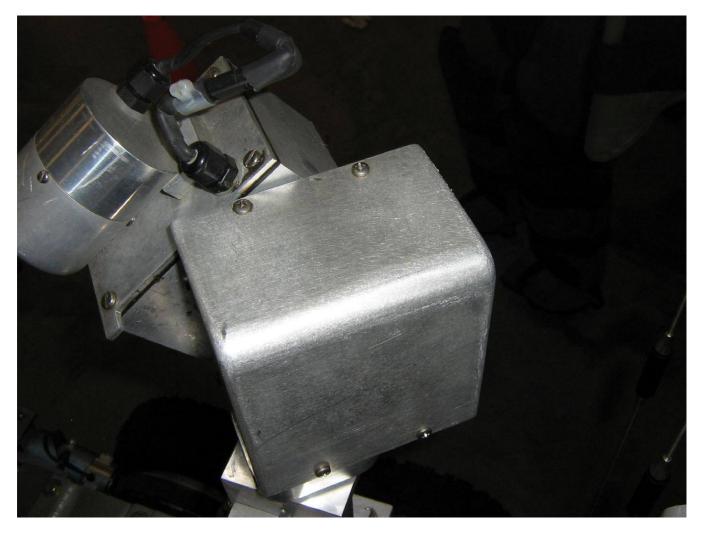


Gripper on the manipulator arm.

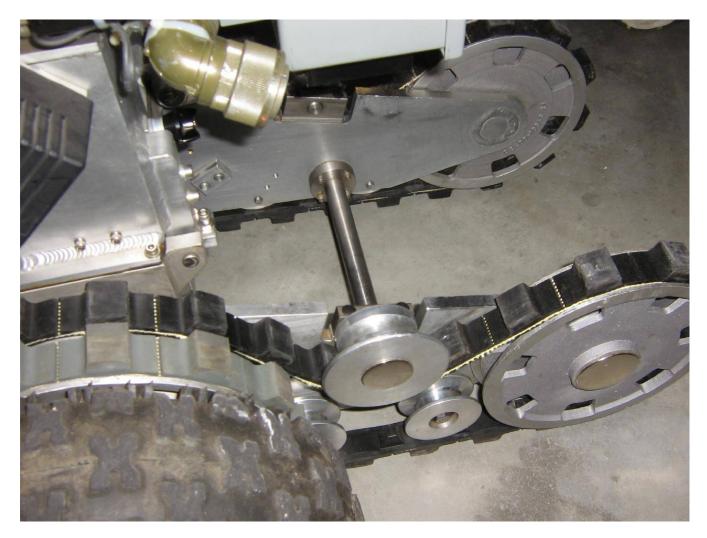
It opens to around 12 inches and has up to 50 pounds of pressure. Its lifting capacity varies with how far the arm is extended.



Front track view showing several cameras and the microphone.



Pan, tilt, zoom video camera.



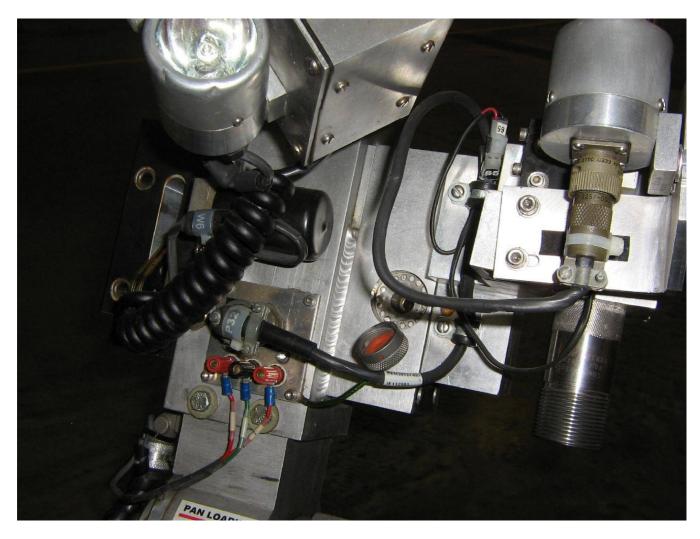
Track guides.



Track guides, alternate view.



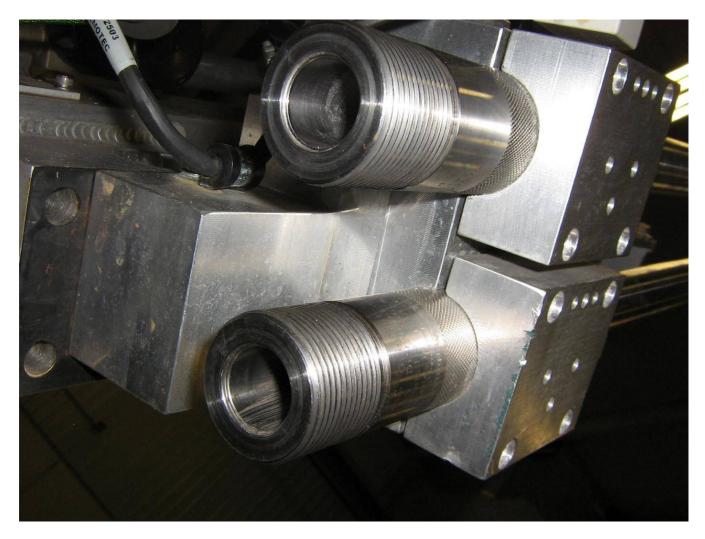
Overview of the antenna mounts, rotating camera, and manipulator arm.



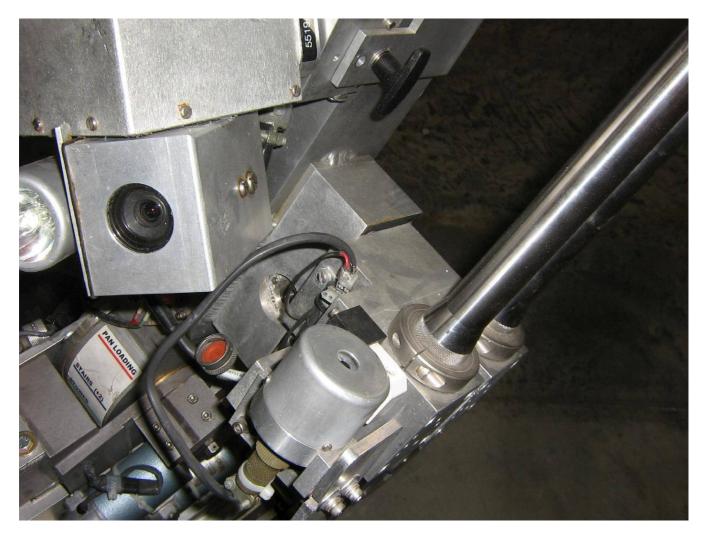
Manipulator arm controls and illumination.



Sealed gel-cell battery box.



Rear view of water disruptors with breech caps removed.



Video camera mounted above the water disruptors.

Intercepting Older Digital Cordless Phones

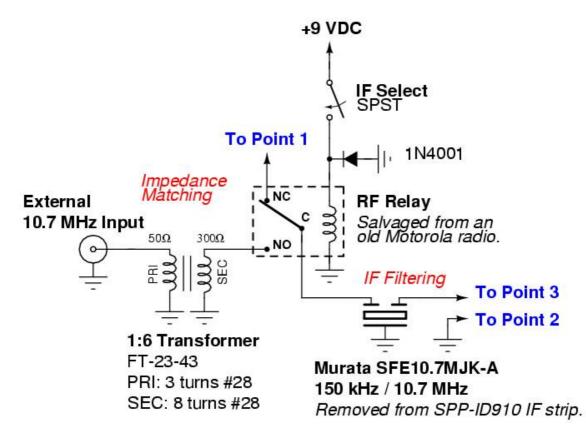
Overview

This is an experimental project to decode the digital audio modulation used in some older VTech and Sony 900 MHz cordless phones. These phones use a two–level Frequency Shift Keying (FSK) modulation with an unknown audio encoding. Since these VTech and Sony phones (and probably others) tend to use the same AMD AM79C490 controller and encoding chip, it's possible to decode the digital audio by injecting your *own* intercepted target signal into a similar phone's 10.7 MHz IF strip.

The receiver in those VTech and Sony is based around a Motorola MC13156 wideband IF chip which has an integrated data slicer output. The input frequency to the Motorola MC13156 is at 10.7 MHz, so an external receiver or mixer may be required to downconvert your received frequency.

The MC13156 converts the FSK modulation into a digital bit stream via the data slicer. This bit stream is then sent to the AMD AM79C490 for the proper audio decoding. The audio output from the AMD AM79C490 is in "the clear" and is then sent to the standard analog audio hybrid circuits in the rest of the phone.

The project here consists of a slightly modified Sony SPP–ID910 900 MHz digital cordless phone. A RF relay will be used to switch between the phone's stock 10.7 MHz IF and an external 10.7 MHz IF. The idea is that the phone will be first turned on and "initialized" to the stock handset. This enables all the audio decoding circuits. Then, the RF relay is activated and an external 10.7 MHz signal containing the encoded target modulation is injected into the MC13156 IF strip of the Sony SPP–ID910. The SPP–ID910's audio output is now from your intercepted RF signal.



Pictures & Construction Notes



Internal overview of a stock Sony SPP-ID910 900 MHz digital cordless phone.

The phone's FCC ID is: AK8SPP-ID910

The active handset and base station center frequencies are:

<u>Display Channel</u>	<u>Handset (MHz)</u>	<u>Base (MHz)</u>
0	925.05 925.35	902.3 902.6
2	925.65	902.9
3 4	925.95 926.25	903.2 903.5
5 6	926.55 926.85	903.8 904.1
7 8	927.15 927.45	904.4 904.7
9	927.75	905.0

The handset transmits 22.75 MHz *higher* in frequency than the base station and a new channel in assigned whenever the unit is powered.

It is usually easier to intercept the cordless phone's base station signal as these are stationary and the RF signal won't contain any additional signal losses caused by antenna polarization mismatches from movement.



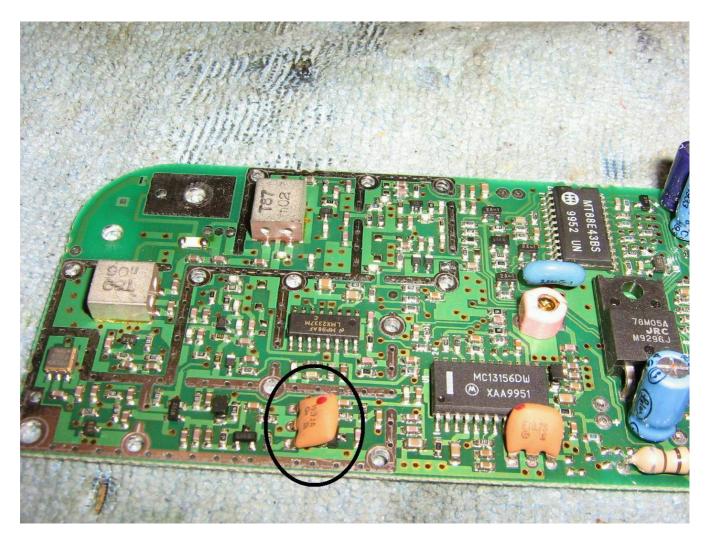
Overview of the RF section of the Sony SPP-ID910.

The antenna input on the lower-right and the two silver squares are the bandpass filters for separating the high/low transmit/receive frequencies.

A National LMX2337 dual-PLL synthesizer controls both the transmit and receive local oscillators.

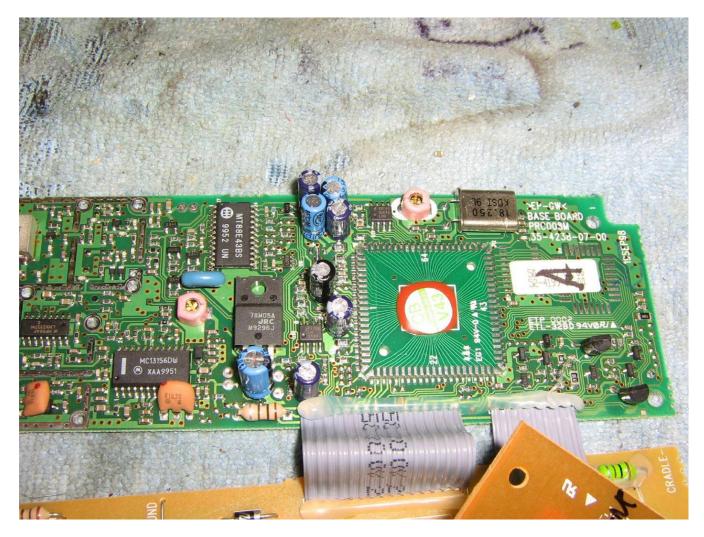
The 10.7 MHz IF strip is based around the Motorola MC13156 (large IC on upper–left) which is specifically designed for receivng narrowband FSK data transmissions.

The data stream output from the Motorola MC13156 (pin 17) is then sent to the AMD AM79C490 for audio decoding and the final coupling to the phone line.



The circled 10.7 MHz IF filter will need to be unsoldered.

The solder pads will then be used to handle the new incoming IF signals.

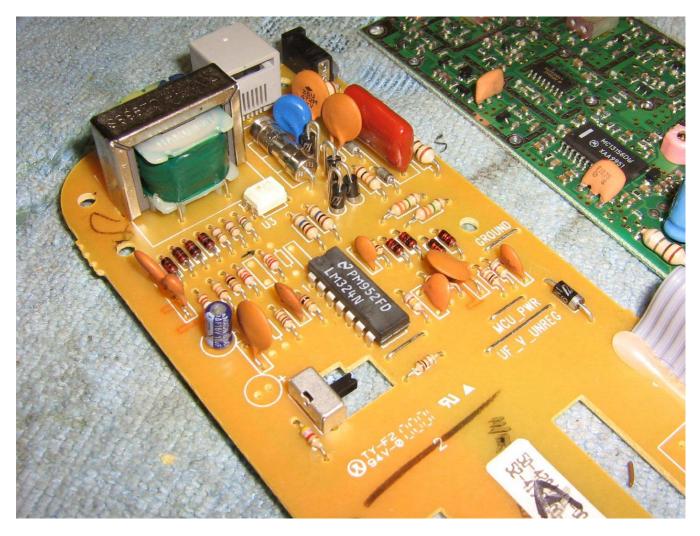


Overview of the 84-pin AMD AM79C490 telephone controller IC.

Details on this IC are difficult to track down, but here's a description of some of the main pins:

<u>Pin No.</u>	<u>Label</u>	Connection Within the Phone
1	AOP	Audio Output
2	AOM	
3	AIM	Audio Input/Microphone
4	AVss1	Ground
7	AVcc1	+5 VDC
8	TST1	
9	MODE0	
10	MODE1	
84	AVss2	Ground
83	BATMON	
82	AVcc2	+5 VDC
81	/RESET	
80	TST0	
79	MON 3	
78	MON2	
77	MON1	
76	MON0	
75	RXBB	Receive Data from MC13156
74	TXBB	Transmit Data to VCO

Note that there appears to be two pins labeled for "test" functions.



Telephone line interface circuit board of the Sony SPP-ID910.

The final decoded audio will be taken from pin 1 of the LM324 shown above and sent to a front-panel BNC jack.

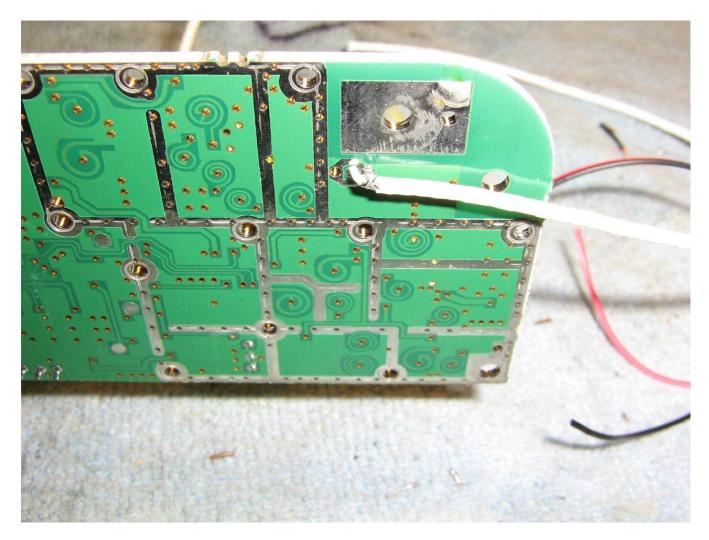


You'll want to add an external antenna to the base station.

Do this by unsoldering the 0-ohm jumper on the circuit board which connected to the pad for the stock "rubber duck" antenna.

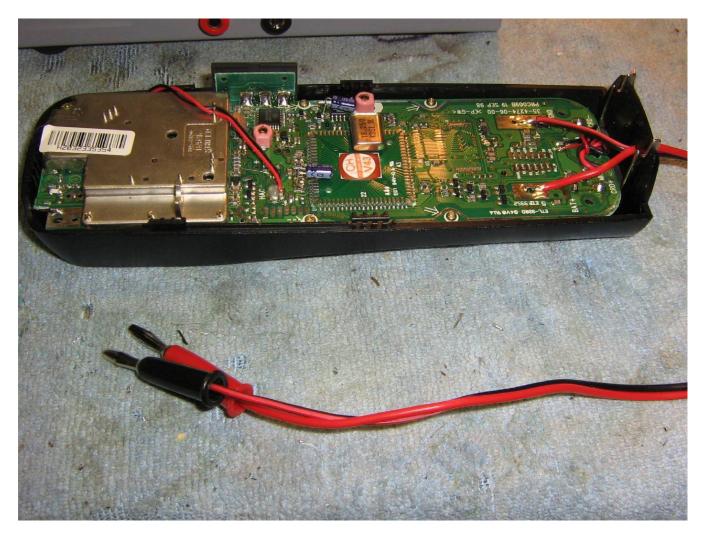
Solder in a piece of small-diameter 50 ohm coax into the plated holes, which are circled above.

The center conductor of the coax should go to the center hole. The other holes are ground and should be soldered to the coax's shield.



Attaching a piece of coax for the external antenna SMA jack.

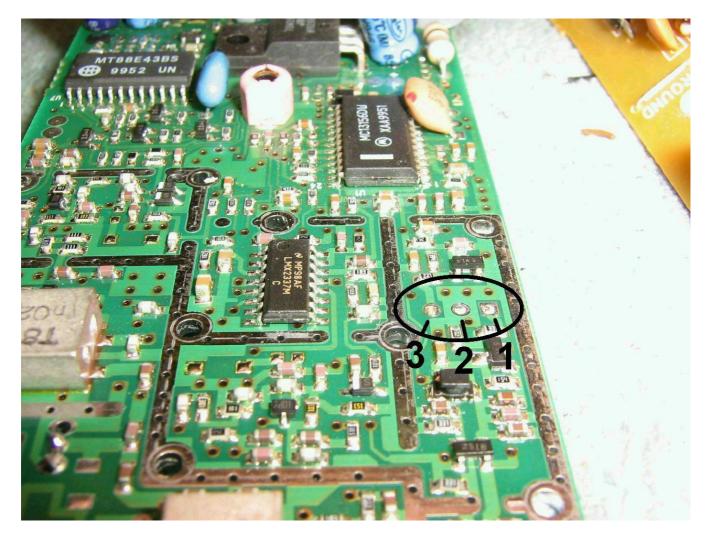
I ended up soldering the coax to the bottom of the board, which was required for the final mounting arrangement used here.



The handset requires no real major modifications.

Solder two pieces of wire (with banana jacks) to the solder pads which held the battery springs. This is for applying the handset's required +5 VDC remotely.

Also, the stock antenna was replaced with a short little piece of wire.



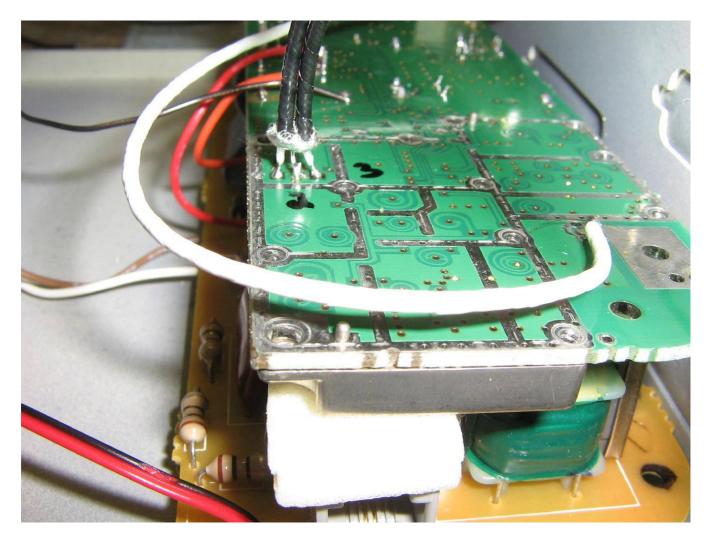
Removing the base station's first 10.7 MHz IF filter.

Save this filter for use in the RF relay circuit, which will be described later.

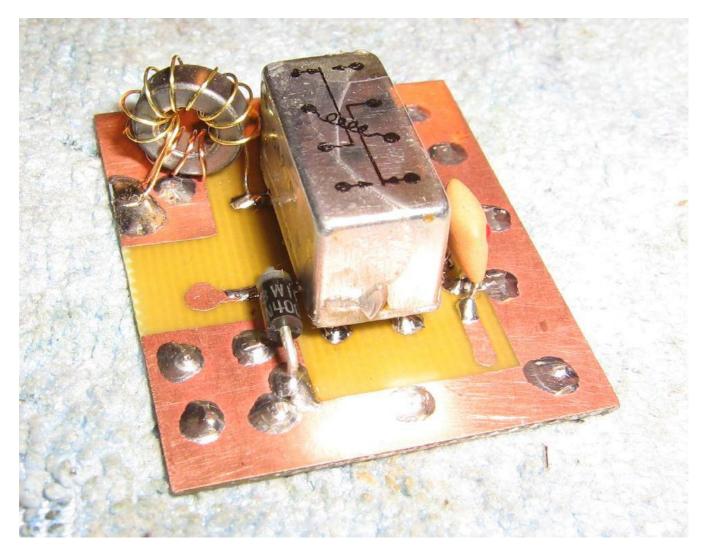
Point 1 is the output from the base station's stock receive mixer containing the 10.7 MHz signal.

Point 2 is a common ground.

Point 3 is the 10.7 MHz input to the MC13156 wideband IF chip.



Attaching small diameter 50–ohm coaxial cables to the input/output pads where the 10.7 MHz ceramic filter used to be.

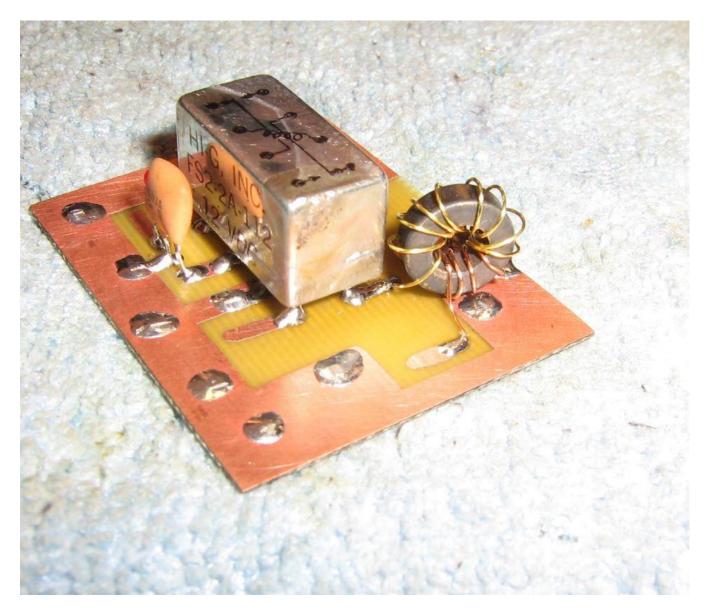


The RF relay which selects between the phone's stock 10.7 MHz IF and an external 10.7 MHz IF.

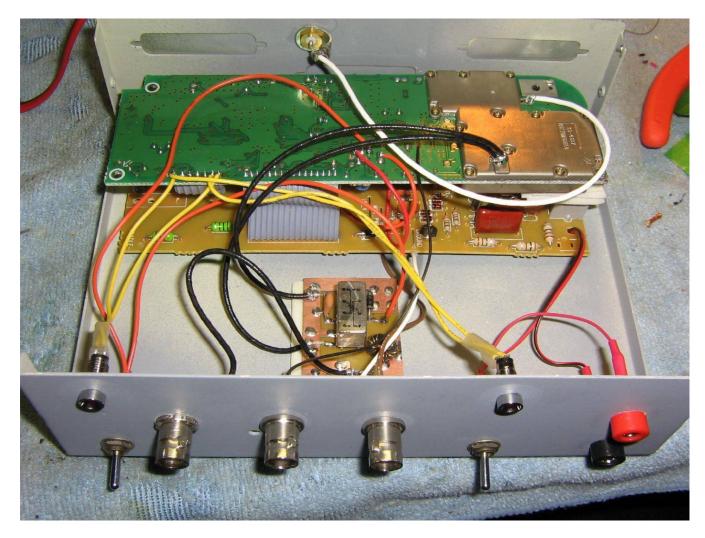
These RF relays can be found in some older Motorola two-way radios.

The input matching transformer is on the upper–left. It's used to convert the 50 ohms input to the 300 ohm impedance of the 10.7 MHz ceramic filter.

The ferrite torroid is an Amidon FT–23–43 with 3 turns of #28 enamled wire on the primary and 8 turns of #28 enamled wire on the secondary.



Alternate view of the RF relay and impedance matching circuit.



Completed internal view.

The front–panel BNC connectors are for an external 10.7 MHz input, MC13156 data slicer output, and audio output.

The banana jacks on the right are for the +9 VDC power the unit requires.

The LED on the left is from the "Line Enable" on the sub-circuit of the base station. The other LED is a power indicator.



Alternate overview showing the rear panel.

A SMA jack is for an external antenna.

The banana jacks along the bottom provide the +5 VDC output for powering the handset. Tap the output of the 7805 voltage regulator on the base station's main circuit board.

Optionally, tap pin 17 on the Motorola MC13156 (or pin 75 on the AMD AM79C490) to provide a data slicer output signal. This should go to a panel-mounted BNC jack.



Completed overview.

To use this device, apply +9 VDC power to the front–panel banana jacks. This will power both the base station unit and the handset.

Be sure the "IF Select" switch is set to the internal 10.7 MHz IF of the phone.

After a few seconds, the handset and base station should sync, displaying "CHANNEL SEARCHING..." and which channel they are using.

Press the "TALK" button on the handset and the "Line Enable" LED should light. The handset will now display "PHONE ON".

Flip the "IF Select" switch to choose an external 10.7 MHz containing your target data modulation. If it contains audio encoded by a similar Sony/VTech digital cordless phone, the line–level audio will be available on the "Audio Output" BNC jack.

If no audio is available, then it's possible to take the raw data stream from the "Data Output" BNC jack and apply some further external processing via hardware or software. This is should be handy for decoding pagers...

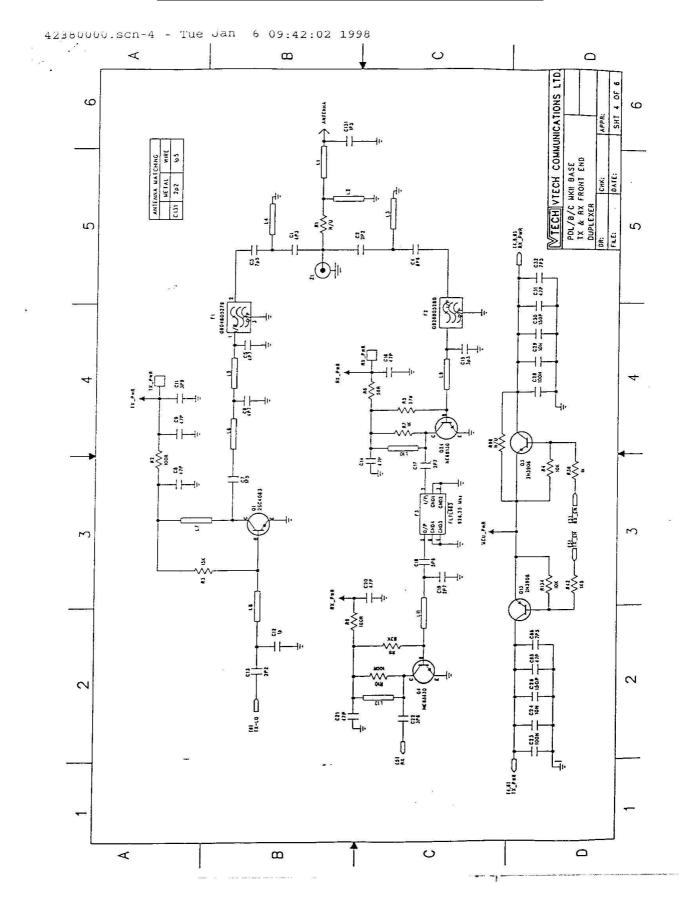
View the MC13156's datasheet for a more in–depth discussion of the MC13156's FSK data decoding possibilities.

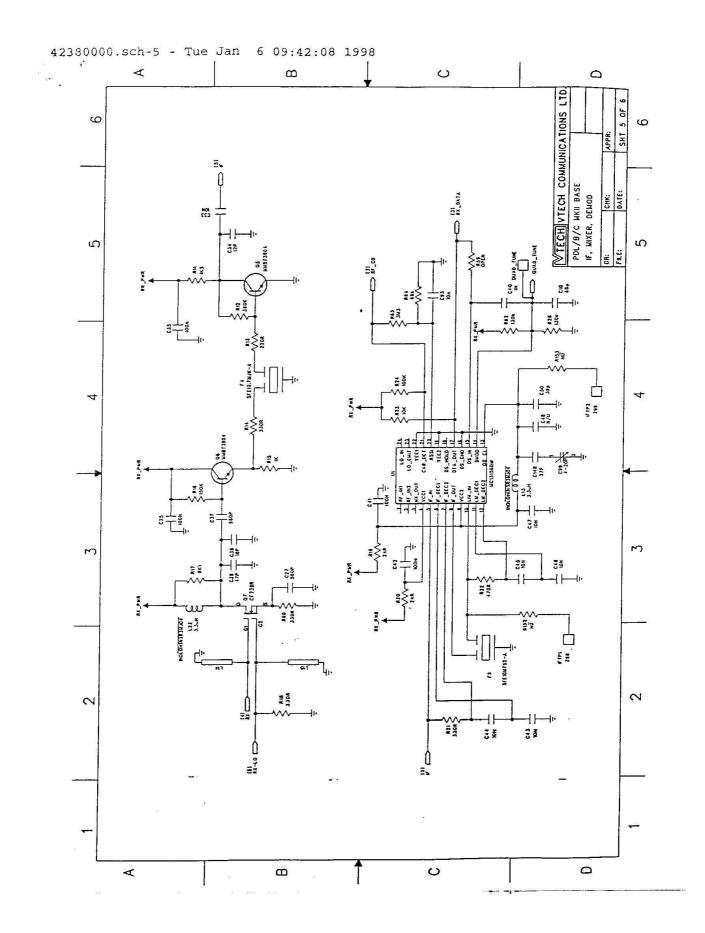


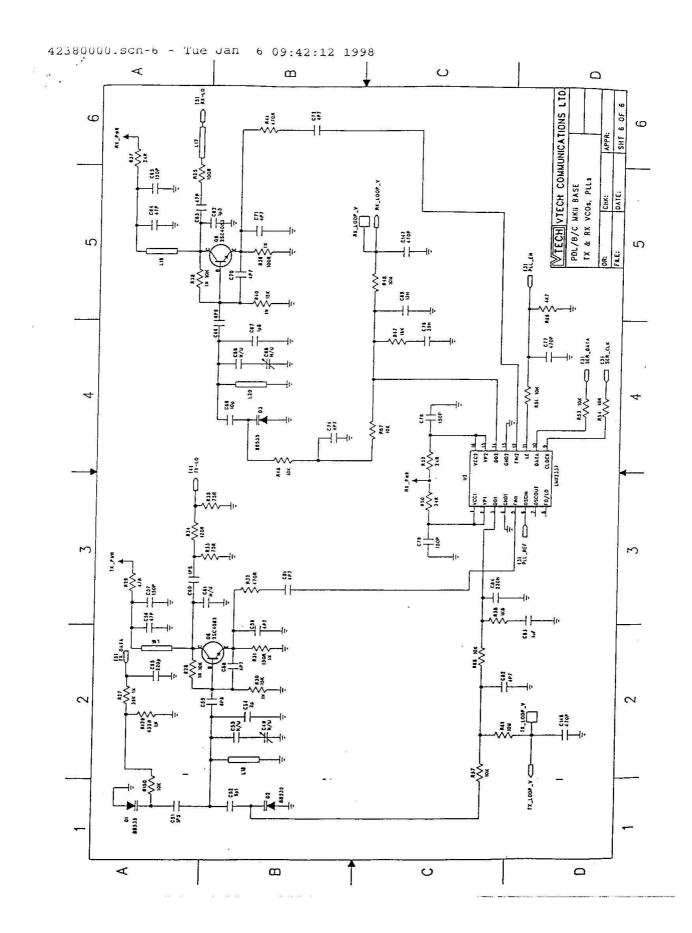
IFR FM/AM–1200S spectrum analysis of a Sony SPP–ID910 900 MHz digital cordless phone in operation.

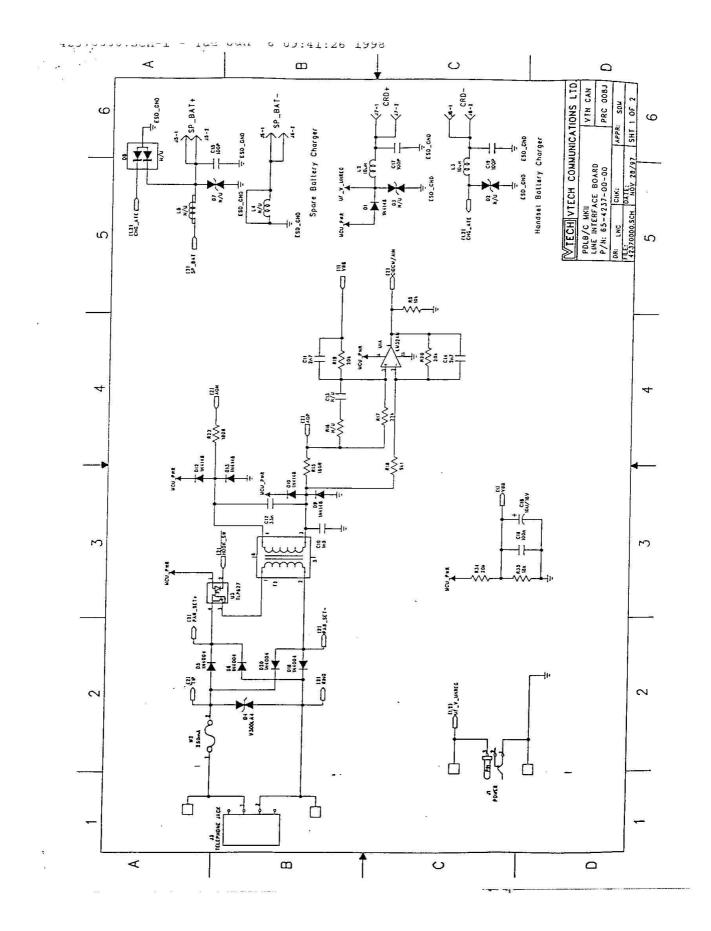
The center frequency of the base station is at 903.8 MHz. The spectrum display is 20 kHz per horizontal division.

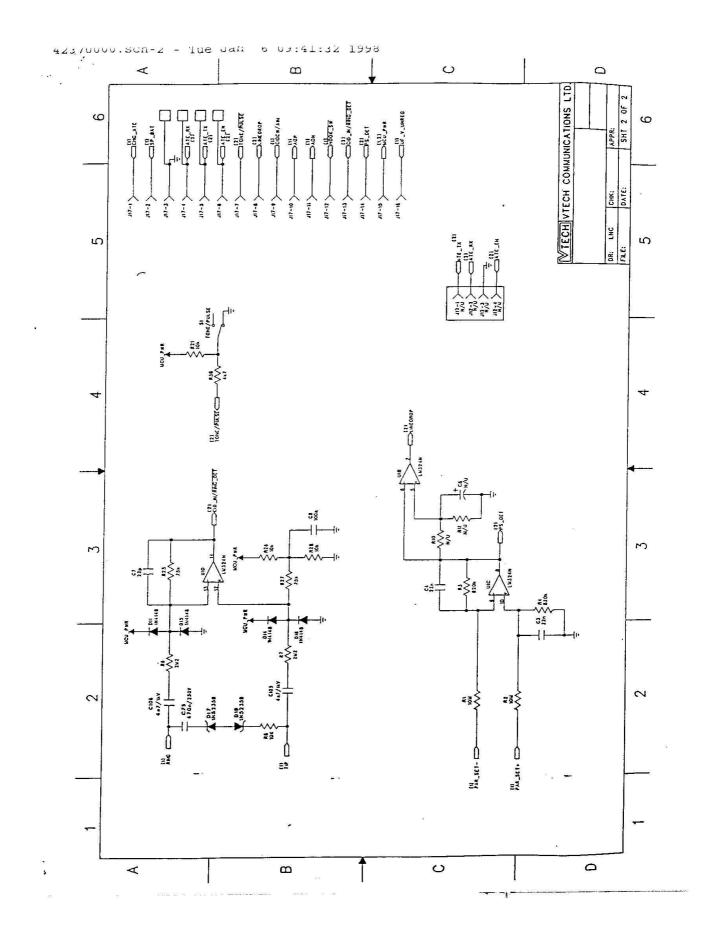
Sony SPP–ID910 Schematics

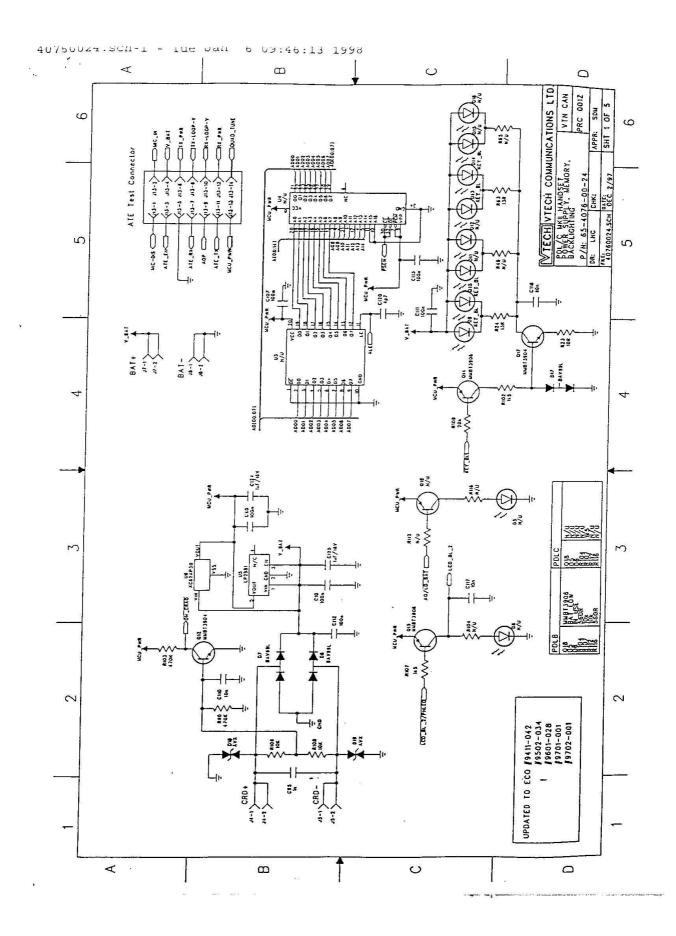


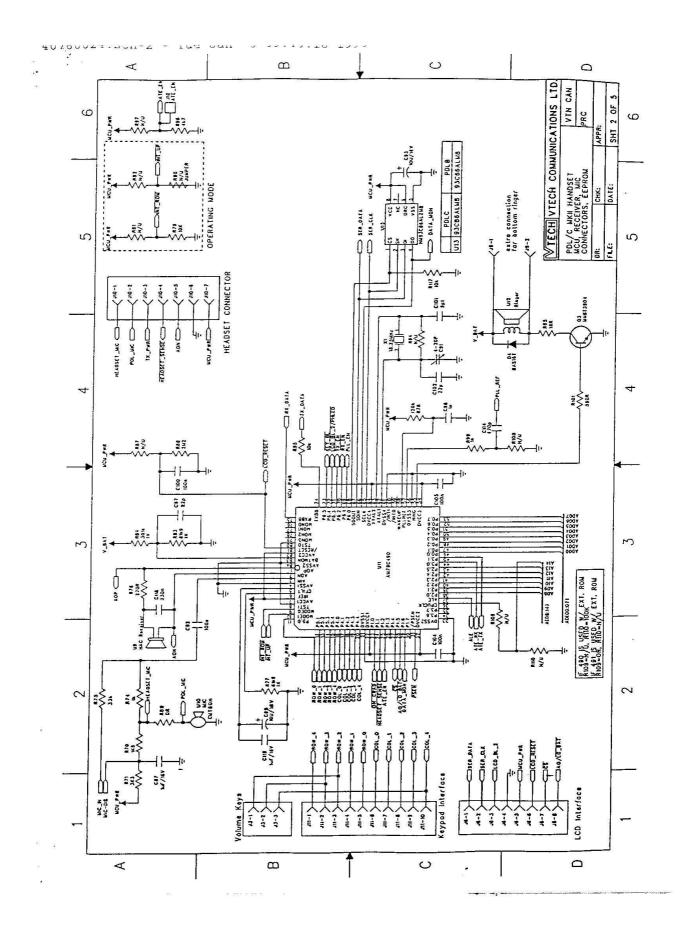


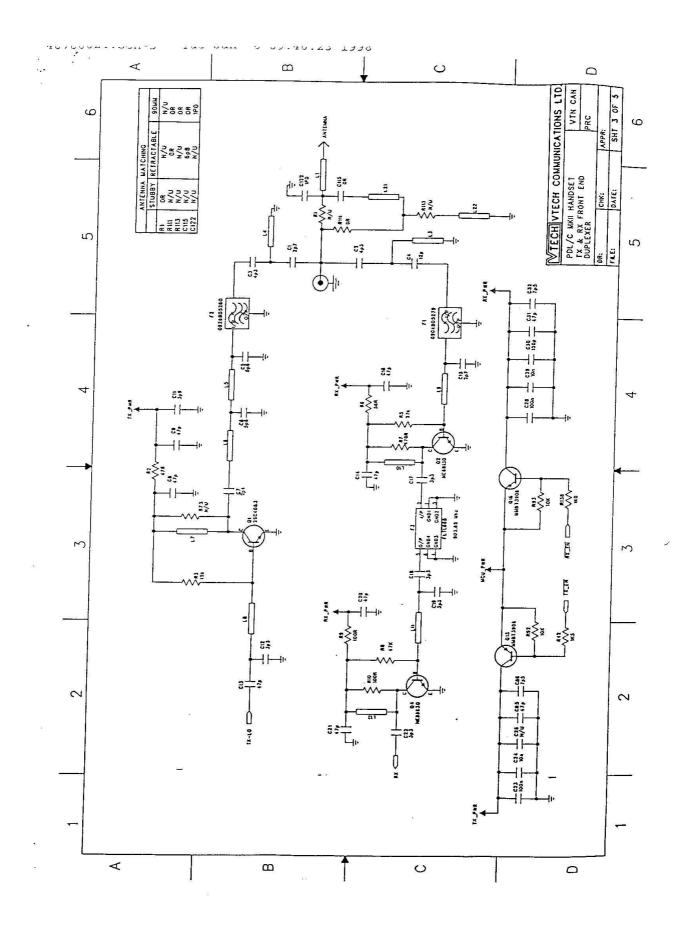


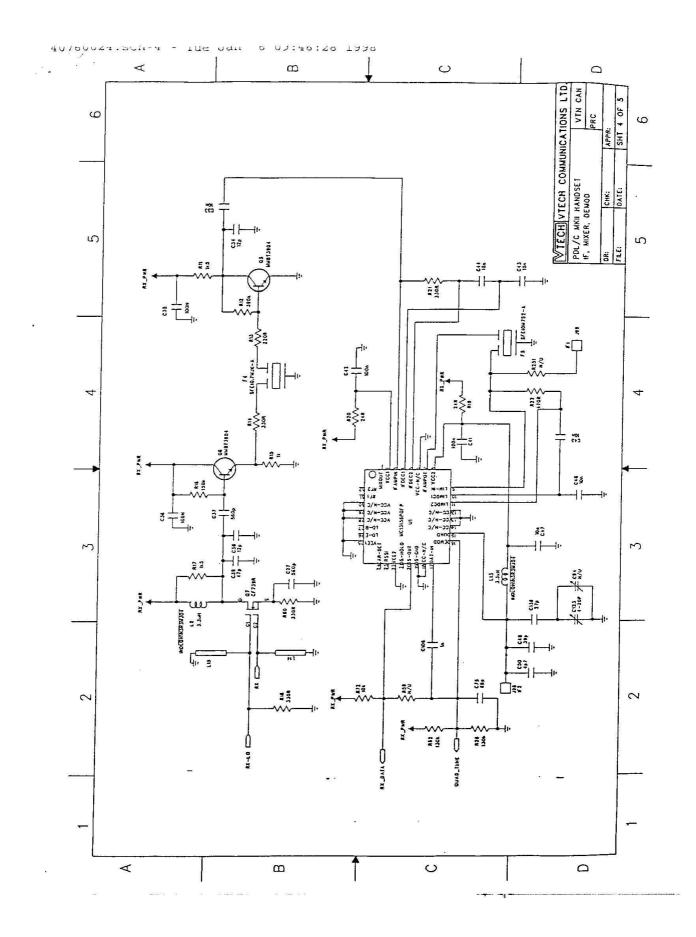


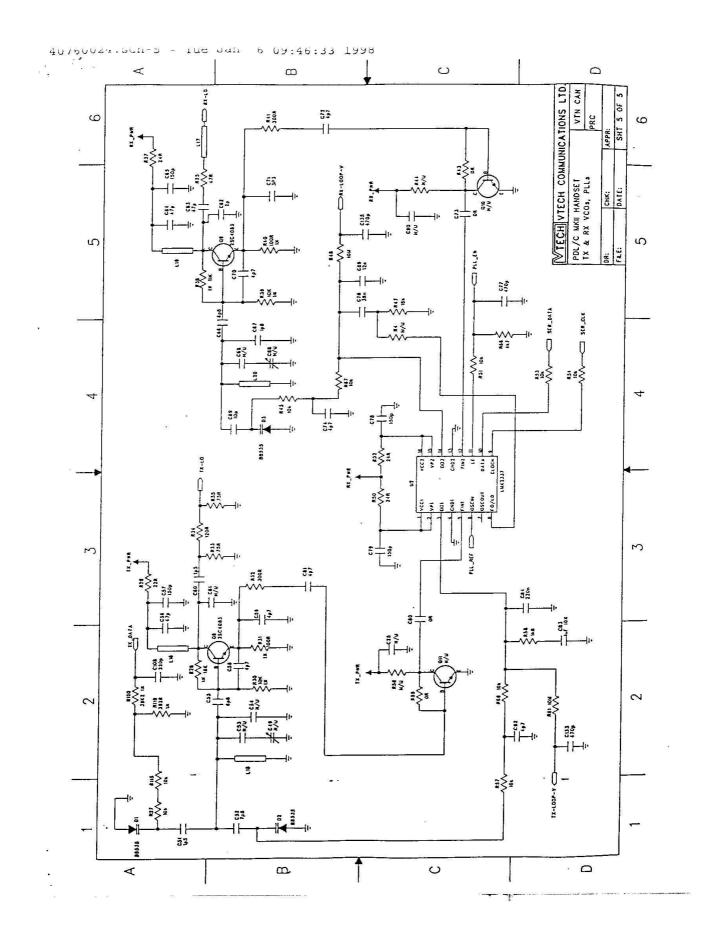














Michael A. Keller

Ida M. Green University Librarian and Director of Academic Information Resources Cicil H. Green Library Stanford, California 9438-6004

> Michael Keller@stanford.edu telephone 650-723-5553 fax 650-725-4902

The Stanford University Libraries

11 August 2011

Mr. Eric Hunt General Delivery 280 East 1st Avenue Broomfield, CO 80020

Mr. Hunt:

This letter serves as formal notice that you are not to enter any of the University Libraries, including Green and Meyer libraries, nor are you to be around any Stanford library facilities for any purpose whatsoever.

The Stanford Libraries require that all patrons respect the terms of service of the databases and other research resources we make available. On at least two occasions you have violated those terms of service, thus jeopardizing access to those resources for our patrons. As a private institution, Stanford reserves the right to bar anyone from any ot all parts of its premises. You have no affiliation with Stanford University, and there is no reason for you to be in or around any of the Stanford Libraries.

Our Access Services team has been notified of this situation, and you are prohibited from purchasing access privileges to any of SULAIR's libraries. If after being served with this letter you choose to disregard these instructions, you will be subject to legal action, including possible criminal charges for trespass.

Sincerely,

1/ laller

Michael A. Keller University Librarian

cc: Laura Wilson, Chief, Stanford Department of Public Safety Lauren Schoenthaler, Stanford Office of the General Counsel

Eric Hunt has a documentary project going on called *Last Days of the Big Lie*. His project is to debunk some of lies and propaganda in the infamous Steven Spielberg documentary *The Last Days*.

Eric Hunt is using *the actual audio & video footage* from USC's "Survivors of the Shoah Visual History Foundation" to debunk some of the myths surrounding the events of the "Holocaust." Hunt has used this information to uncovered numerous instances of lying and witness manipulation in Spielberg's movies.

Above is what Stanford College did when they found out Hunt was using their library. So much for "freedom of speech" or "academic freedom." Contact Michael Keller at the Stanford University Library: Michael.Keller@stanford.edu (650–723–5553) and gently remind him that both Standford and USC colleges receive taxpayer funding.





Any Questions?

Editorial and Rants

Welcome to Eric Corley's New York. Now leave your freedoms at the border...

New York Democrats Argue Free Speech is a Privilege That Can Be Revoked

October 7, 2011 - From: dailytech.com

The First Amendment of the U.S. Constitution clearly states:

Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the Government for a redress of grievances.

However, that hasn't stopped state and federal officials to creatively redefine what "freedom of speech" means. Of late there have been multiple attempts to legislate digital censorship, with government officials looking to decide what forms of online speech they feel aren't okay and make them illegal.

The latest effort on this front comes from four Democratic New York state senators, who have published a report entitled "Cyberbullying: A Report on Bullying in a Digital Age." In that report, Sen. Jeff Klein, Diane Savino, David Carlucci, and David Valesky argue that the First Amendment has been long misinterpreted by politicians and courts and really means that free speech is a privilege (not a right), which can be taken away.

They write:

Proponents of a more refined First Amendment argue that this freedom should be treated not as a right but as a privilege — a special entitlement granted by the state on a conditional basis that can be revoked if it is ever abused or maltreated.

The argument that free speech was not intended as a protected right seems rather baffling given that the First Amendment is part of the "Bill of Rights."

Of course they argue that state politicians should be tasked with creating laws of what they feel constitutes "abuse" of free speech and grounds for censorship. According to their full report, possible "abusive" speech that they feel should be banned includes:

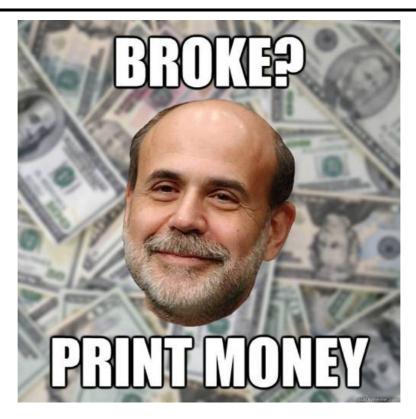
- 1. Leaving hurtful messages online: "LEAVING IMPROPER MESSAGES ON ONLINE MESSAGE BOARDS OR SENDING HURTFUL AND DAMAGING MESSAGES TO OTHERS;"
- 2. Flaming people online: "FLAMING (HURTFUL, CRUEL, AND OFTENTIMES INTIMIDATING MESSAGES INTENDED TO INFLAME, INSIGHT, OR ENRAGE);"
- 3. "Happy slapping" (a 2005 meme that the befuddled Senators appear to mistake for a current problem): "HAPPY SLAPPING (RECORDING PHYSICAL ASSAULTS ON MOBILE PHONES OR DIGITAL CAMERAS, THEN DISTRIBUTING THEM TO OTHERS);"
- 4. Trolling online: "TROLLING (DELIBERATELY AND DECEITFULLY POSTING INFORMATION TO ENTICE GENUINELY HELPFUL PEOPLE TO RESPOND (OFTEN EMOTIONALLY), OFTEN DONE TO PROVOKE OTHERS);"
- 5. Exclusion of people: "EXCLUSION (INTENTIONALLY AND CRUELLY EXCLUDING SOMEONE FROM AN ONLINE GROUP)."

Such legislation are perceived by some as an overreaction of extreme recent incidents of cyberbullying. However, it's hard to avoid the possibility that such censorship couldn't be abused by politicians to silence political rivals.

After all, if you can put someone in speech for "trolling" and "leaving hurtful messages on online message boards," does that mean ruling politicians can imprison those who criticize them online? Clearly that's how officials in other countries like China have used similar laws. Is the U.S. headed down a similar road?

The Senators have used their report to draft a proposed law.

Under the proposed law, "offensive" speech would become constitute Third–Degree Stalking, a Class A Misdemeanor. And if someone commits suicide due to online harassment — or "bullycide" as the report calls it — the harassers can be charged with Second–Degree Manslaughter, a Class C Felony.



Note how they dance around the fact that non–Whites are dragging down the SAT scores. Change!

SAT Reading Scores Fall to Lowest Level on Record

September 14, 2011 - From: mercurynews.com

By Justin Pope

Scores on the critical reading portion of the SAT college entrance exam fell three points to their lowest level on record last year, and combined reading and math scores reached their lowest point since 1995.

The College Board, which released the scores Wednesday, said the results reflect the record number of students from the high school class of 2011 who took the exam and the growing diversity of the test-taking pool -- particularly Hispanics. As more students aim for college and take the exam, it tends to drag down average scores.

Still, while the three–point decline to 497 may look small in the context of an 800–point test, it was only the second time in the last two decades reading scores have fallen as much in a single year. And reading scores are now notably lower than scores as recently as 2005, when the average was 508.

Average math scores for the class of 2011 fell one point to 514 and scores on the critical reading section fell two points to 489.

Other recent tests of reading skills, such as the National Assessment of Education Progress, have shown reading skills of high–school students holding fairly steady. And the pool of students who take the SAT is tilted toward college–goers and not necessarily representative of all high school students.

But the relatively poor performance on the SATs could raise questions whether reading and writing instruction need even more emphasis to accommodate the country's changing demographics.

Roughly 27 percent of the 1.65 million test-takers last year had a first language other than English, up from 19 percent just a decade ago.

Jim Montoya, vice president of relationship development at the College Board, said the expanding Latino population was a factor, as well as greater outreach to get minority students to take the test. But there are others, too.

"It's a lot of little things," he said. For example, he said, the number of black students taking a solid core curriculum --- a strong predictor of success on the test --- has fallen from 69 percent to 66 percent over a decade.

The College Board, a membership organization that owns the exam and promotes college access, also released its first "College and Career Benchmark" report, which it said would eventually be used to help show states and school districts how well prepared their students are. Based on research at 100 colleges, it calculated that scoring 1550 or above on the three sections of the test indicated a 65–percent likelihood of attaining a B–minus or above average in the freshman year of college.

Overall, 43 percent of test-takers reached that benchmark.

The SAT and rival ACT exam are taken by roughly the same number of students each year. Most colleges require scores from at least one of the exams but will consider either. In recent years, some colleges have adopted test–optional policies allowing applicants to decline to submit test scores at all.

BALTIMORE, MARYLAND CA. 1950

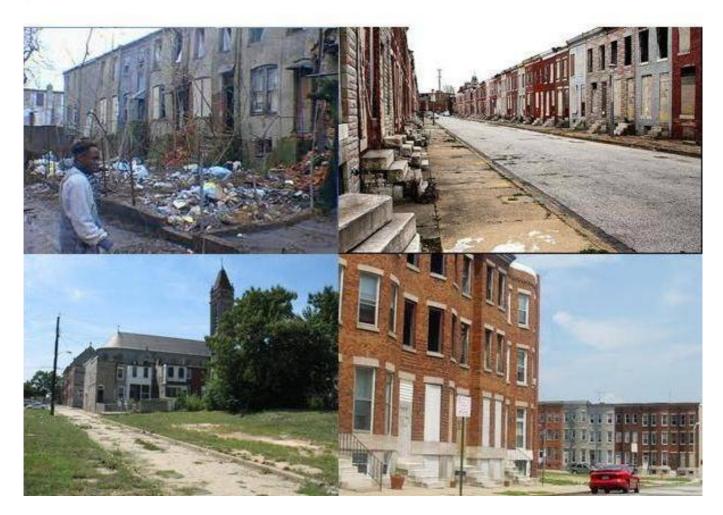
75% White, 23.8% African American Source: "Alabaster cities: urban U.S. since 1950". John R. Short (2006). Syracuse University Press. p.142. ISBN 0815631057



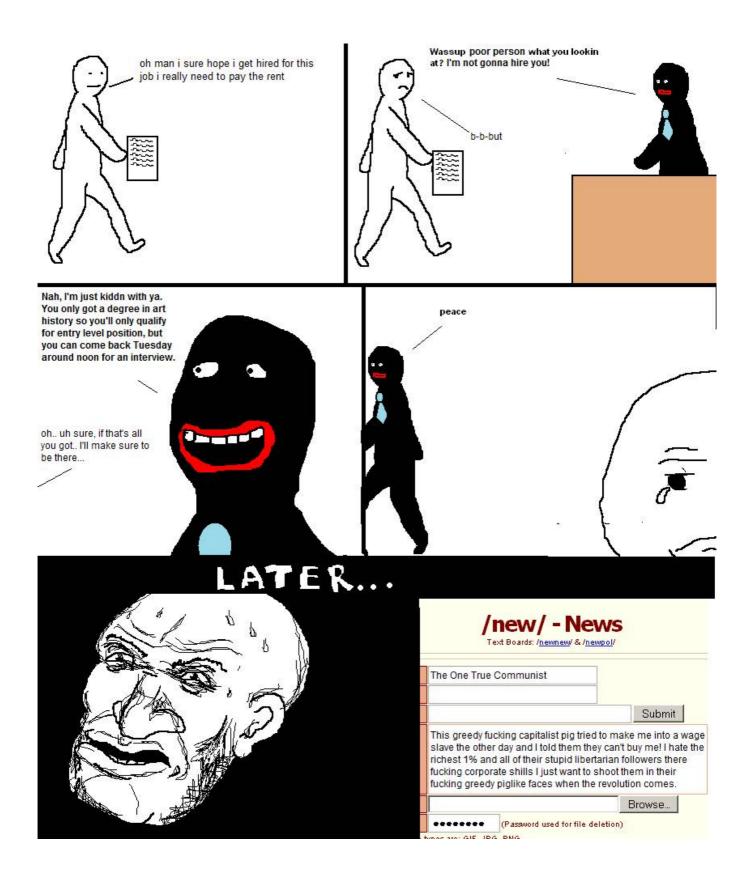
Then

Baltimore, Maryland ca. 2010

32.5% White, 64% African American Source: baltimorehealth.org/infor/HSR/BaltCityDemo.pdf



Now



It used to be that people helped each other, now it's only the government can help you... See the Jew...

Schakowsky: Americans Don't Deserve to Keep All of Their Money

September 14, 2011 – From: wlsam.com

CHICAGO (WLS) – A lot of reaction Wednesday morning to Congresswoman Jan Schakowsky's interview with Don Wade and Roma.

Schakowsky said that Americans don't deserve to keep all of their money because we need taxes to support our society.

"I'll put it this way. You don't deserve to keep all of it and it's not a question of deserving because what government is, is those things that we decide to do together. And there are many things that we decide to do together like have our national security. Like have police and fire. What about the people that work at the National Institute of Health who are looking for a cure for cancer," Schakowskysaid.

Schakowsky also says one reason the 2009 stimulus bill did not succeed was because it was not large enough.

Schakowsky also admitted there are questions about the Obama administration's connection to the now bankrupt Solyndra solar panel company.

The administration approved nearly \$528 million in federal loans to the company, before Solyndra filed for bankruptcy.

Schakowsky sits on the House Energy and Commerce Committee Investigations and Oversight Panel, which is holding hearings Wednesday into the matter. She said she and other Democrats want answers.

"You know, it certainly doesn't sound good. The Democrats are not going to shrink from actually, you know, from any kind of full investigation of that. If there is a problem we're certainly going to support the efforts to get to the bottom of this," Schakowsky said.

Schakowsky did say that even though public money was involved, the Solyndra controversy does not compare to the damage the Enron energy scandal inflicted on the U.S. economy.

Also in the interview, Schakowsky talked about the victory of Republican Bob Turner, in the Tuesday special election to replace ex–Congressman Anthony Weiner. Turner, who is Catholic, won in a district that is heavily Democratic and heavily Jewish, defeating an Orthodox Jewish Democrat.

Schakowsky, who is Jewish, denounced former New York Mayor Ed Koch, for getting involved in the race and criticizing President Obama's record on Israel.

"I thought it was really shameful in talking about Barack Obama as not good on Israel. He has provided more security for the state of Israel than any other president," Schakowsky said.



I'm a college Senior with \$40k of debt. There are no jobs in my feild. My toughest now is decision sell drugs 0+ 190 to 0 Occupywallst.org