

Sur-Gard System III Receiver

What is Auto-Switching UL Redundancy ?

What is a Virtual Receiver ?

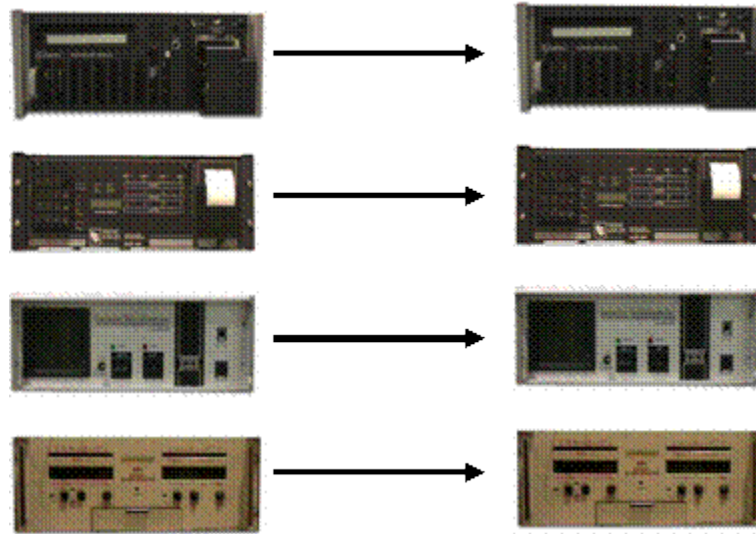
What is Internet Monitoring ?

Sur-Gard System III Receiver

What is Auto-Switching UL Redundancy ?

- **Buy One Receiver – Buy Two**
- **Duplication of Receivers**
- **Switch Accounts from 1 to 2**

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Do you have a plan of action ?

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Integrated Redundancy



- Automatic Switching from Primary to “hot” Secondary Hardware
- Dual CPM3 Receivers
- Dual PSU3 Power Supplies
- Virtual Line Cards
- Automatic Back-up output to Automation Software

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Integrated Redundancy



- **Save Time**
- **Save Resources**
- **Save Money**
- **Save Accounts**
- **Do not duplicate Line Cards ?**

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What is a Virtual Receiver ?

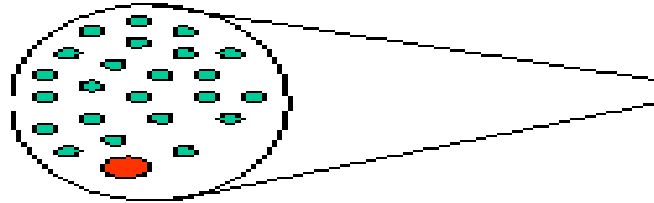
Any incoming call can be answered by any line card

No Hunt Groups

Virtual function is in the System III Receiver

Communicating to a System III

Telephone Numbers are pointed to a PRI – Primary ISDN Service.
Any Telephone number can be pointed to any available channel.



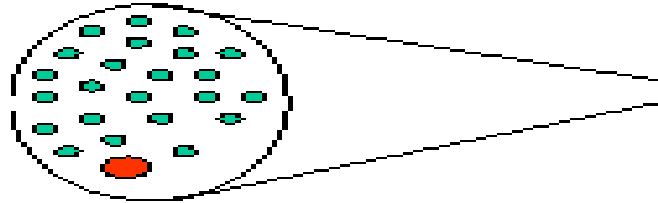
Talk Channel for Event Info



“D” Channel with ANI – DID/DNIS info

Communicating to a System III

The PRI needs to be terminated and converted by to Analog
Most common product used in N.A. is the Adtrans Atlas 550
The System III is up to a 24 line receiver
The PRI is 23 Talk channels



Talk Channel for Event Info



"D" Channel with ANI - DID/DNIS info

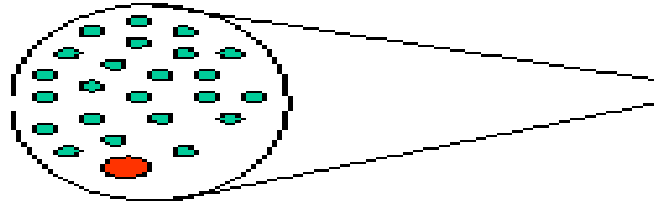
Communicating to a System III

International Market with ISDN-30

Orion Telecom Networks ISDN-30 channel bank

The System III is up to a 24 line receiver

The ISDN-30 has 29 talk channels



Talk Channel for Event Info



"D" Channel with ANI - DID/DNIS info

Communicating to a System III

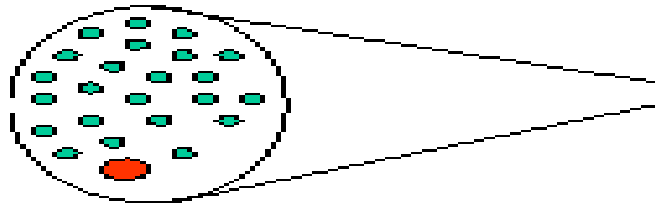
Any incoming call can be answered by any line card.

All line cards know the telephone number the panel is calling to.

All line cards work as one giant “line pool”

“D” channel on the PRI

- Where the panel is calling to DNID/DID
- Where the panel is calling from ANI



 Talk Channel for Event Info

 “D” Channel with ANI – DID/DNIS info

Communicating Formats

If any call can go to any line cards then all line cards must have the ability to receive any format !

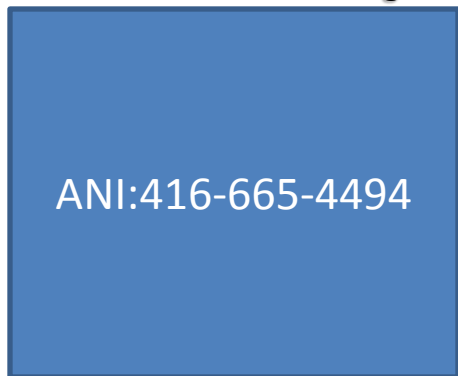
- Over 100 formats
- SIA 1, 2, 3, 8, 20, Contact ID, Pulse, Modem II, IIe, IIIA Squared, ITI, Silent Knight FSK1, FSK2, SESCOA Super Speed, DMP, Westec and many more!
- System III can receive the formats, it is not interactive, ITI, DMP.

The Virtual Receiver

The “D” channel on the PRI-ISDN provides two features...

1. DNIS/DID. This is the identifier of the telephone number the panel will call to..
2. ANI. This looks the same as Caller ID and is where the panel is calling from..

ANI. Where the is calling from



DNIS. Where the is calling too



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So a Virtual Receiver is..

Any incoming call can be answered by any line card ?

What is AHS ?

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What is AHS ?

Automatic Handshake Selection

Patented service created by Sur-Gard

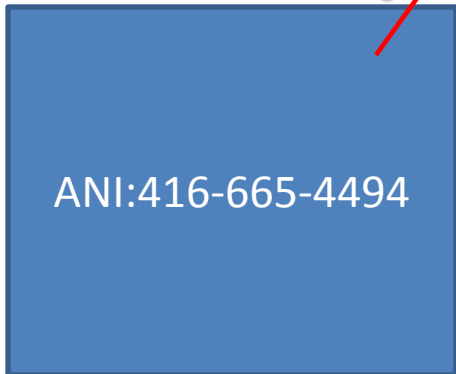
The Virtual Receiver

The “D” channel on the PRI-ISDN provides two features...

ANI

This looks the same as Caller ID and is where the panel is calling from..

ANI. Where the is calling from



DNIS. Where the is calling too



The AHS Receiver

First Time the Panel Calls to the System III

ANI. Where the is calling from



ANI: 416-665-4494

Handshake Order

- 2300 Hz
- 1400 Hz
- Dual-Tone
- SIA
- ITI
- Modem IIIA2

The AHS Receiver

Which Handshake - Cost Money

HS #1	= 1 second	2300 Hz
Wait	= 2 second	
HS #2	= 1 second	1400 Hz
Wait	= 2 second	
HS #3	= 1 second	2300-1400 Hz
Wait	= 2 second	
HS #4	= 1 second	SIA – “YES”

9 seconds of on-line time before the panel received the handshake it required.

How about Radionics, ITI or Handshake #5-#6

The AHS Receiver

Save Money \$\$\$

- Eliminate individual phone lines with one PRI
 - Cancel all existing roll-over lines and numbers
 - Only keep the telephone numbers in the panels

With AHS service average on-line saving 4 seconds

20,000 accounts with 12 signals per month = 240,000 signals

4 second saving per signal = $240,000 \times 4 = 960,000$ seconds

960,000 seconds = 16,000 minutes or 266 hours per month

266 hours per month saving off the phone bill !!

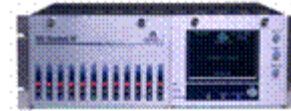
Disaster Recovery ?

In the case of a disaster the phone numbers can be pointed to another PRI going to another location, e.g. Plano.

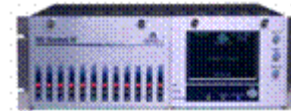
The DNIS/DID identifies where it was calling to..

800-762-8934 = 8934
800-543-5176 = 5176
800-876-5009 = 5009
516-221-5411 = 5411
= DNIS or DID numbers

SIMS



Atlanta



Dynamics of a System III

24 lines = 60,000 – 70,000 account

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What is Internet Monitoring ?

Increased Revenue

Increased Quality of Service

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What is Internet Monitoring ?

Supervised Monitoring

Encrypted Monitoring
High Speed Monitoring

No Long Distance Cost
No Distance Limitation

UL AA Burg & Fire Monitoring
ULC level 3-4-5 Monitoring

IP Monitoring is providing an expanded service with \$\$\$ value to clients who have broadband



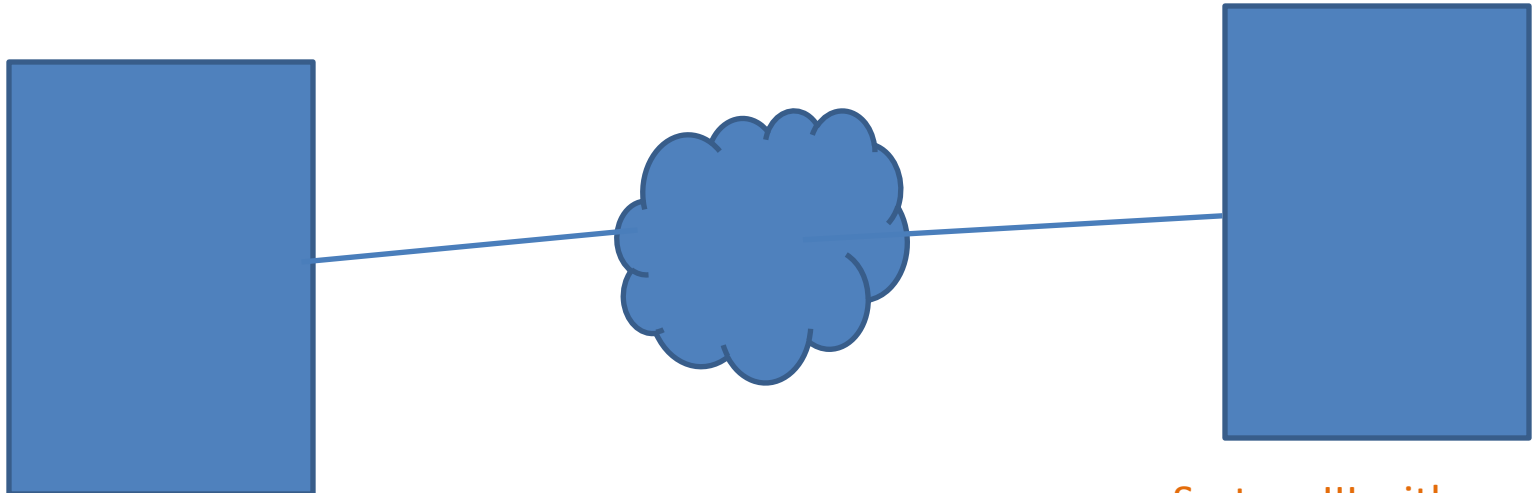
System III with
DRL3IP Line Cards

Internet Monitoring

- 32-million North American households have broadband access.
- 92% of all businesses have network connections.
- PSTN service will soon disappear.
- Freedom to use Intranet/Internet world.
- Prepare for VoIP impact

Sur-Gard System III Receiver

What is Internet Monitoring ?

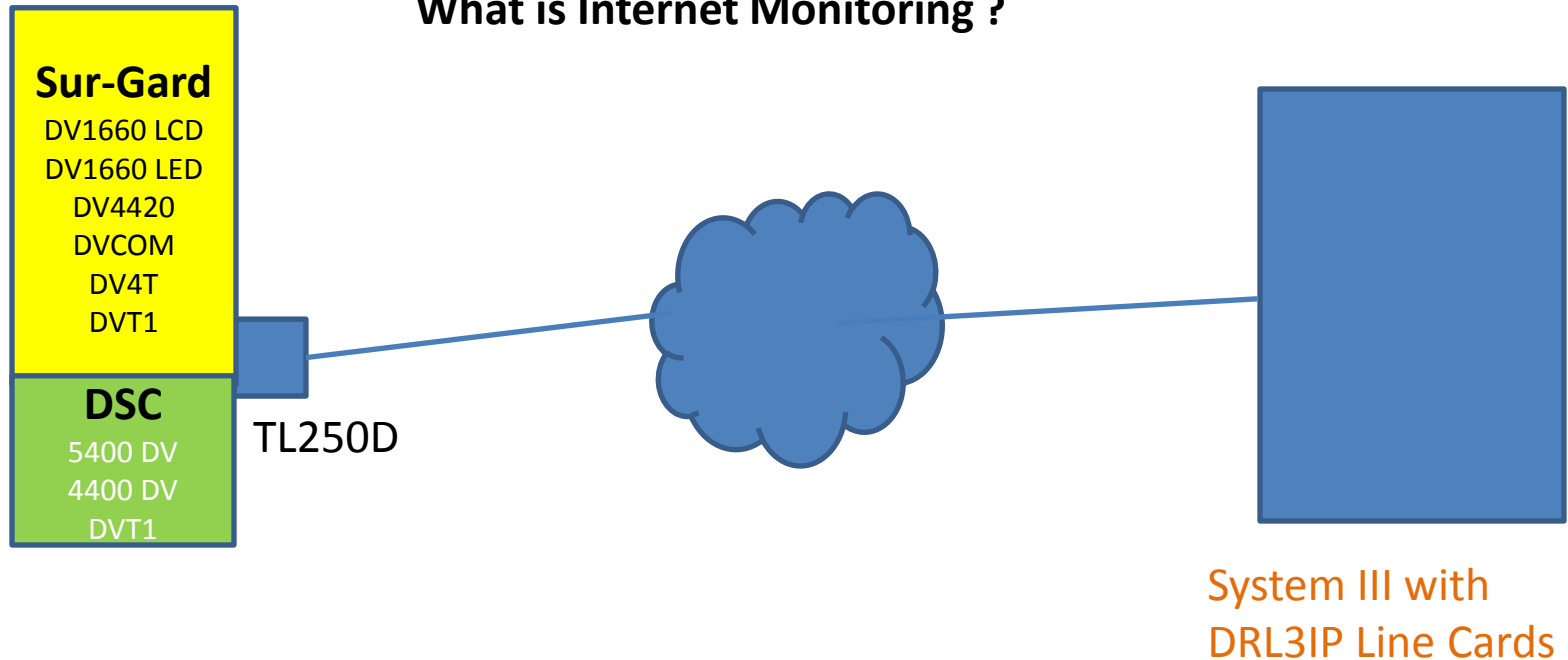


System III with
DRL3IP Line Cards

UL AA Commercial Burg/Fire
ULC Level 3-4-5

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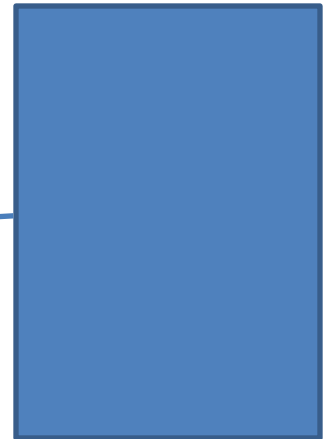
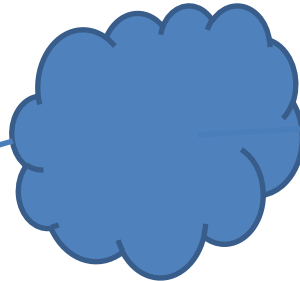
ULC Level 3

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What is Internet Monitoring ?



TL250D



System III with
DRL3IP Line Cards

ULC Level 3

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Conclusion

Eliminate PSTN phone lines

Virtual receiver with ISDN circuit

AHS service, reduce On-Line time

Auto-Switching redundancy

Supervised IP monitoring

Save Money – Make Money

Sur-Gard System III Receiver

THANK YOU

DAVID CRAWFORD