



Bude Sigint Development



NAC BUDE Partnership SATELLITE TELEPORT KNOWLEDGE

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UStellar

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Autonomous System: 29259

IP Ranges:

Servers of interest:

Routers Found on Tidal Surge:

Edge Routers:

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Employees:

Customers/Partners:



Bude Sigint Development



Summary:

Development of in depth knowledge of key Satellite IP service providers in Germany in support of a wider TR requirement on developing German IP transit knowledge.

For each of the following companies

Stellar (AS35207)

Cetel (AS39151)

IABG (AS29259) - (Note this may have already been looked at by NSA NAC..)

Develop a detailed understanding of network infrastructure, focusing on:

- IXP points. Points where the teleport (ground station) connects to the wider Internet. In particular looking for potential access chokepoints.

Develop a wider understanding of the network as a whole.

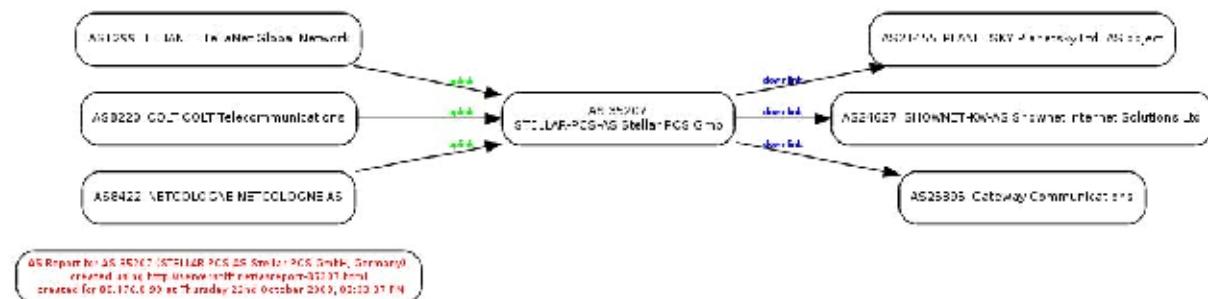
- Develop and task key engineers / staff.
- Identify key customers, IP allocations and frequency plans in support of survey.
- Examine potential equipment suppliers and future tech trends.

This task is part of a wider task to look at developing possible access opportunities with Sigint partners requested by [REDACTED] and ITT. It is also designed to allow NAC Bude to begin looking at network analysis that directly connects to their access, and encourages new SD work against key ISPs in future.

TOP SECRET STRAP1

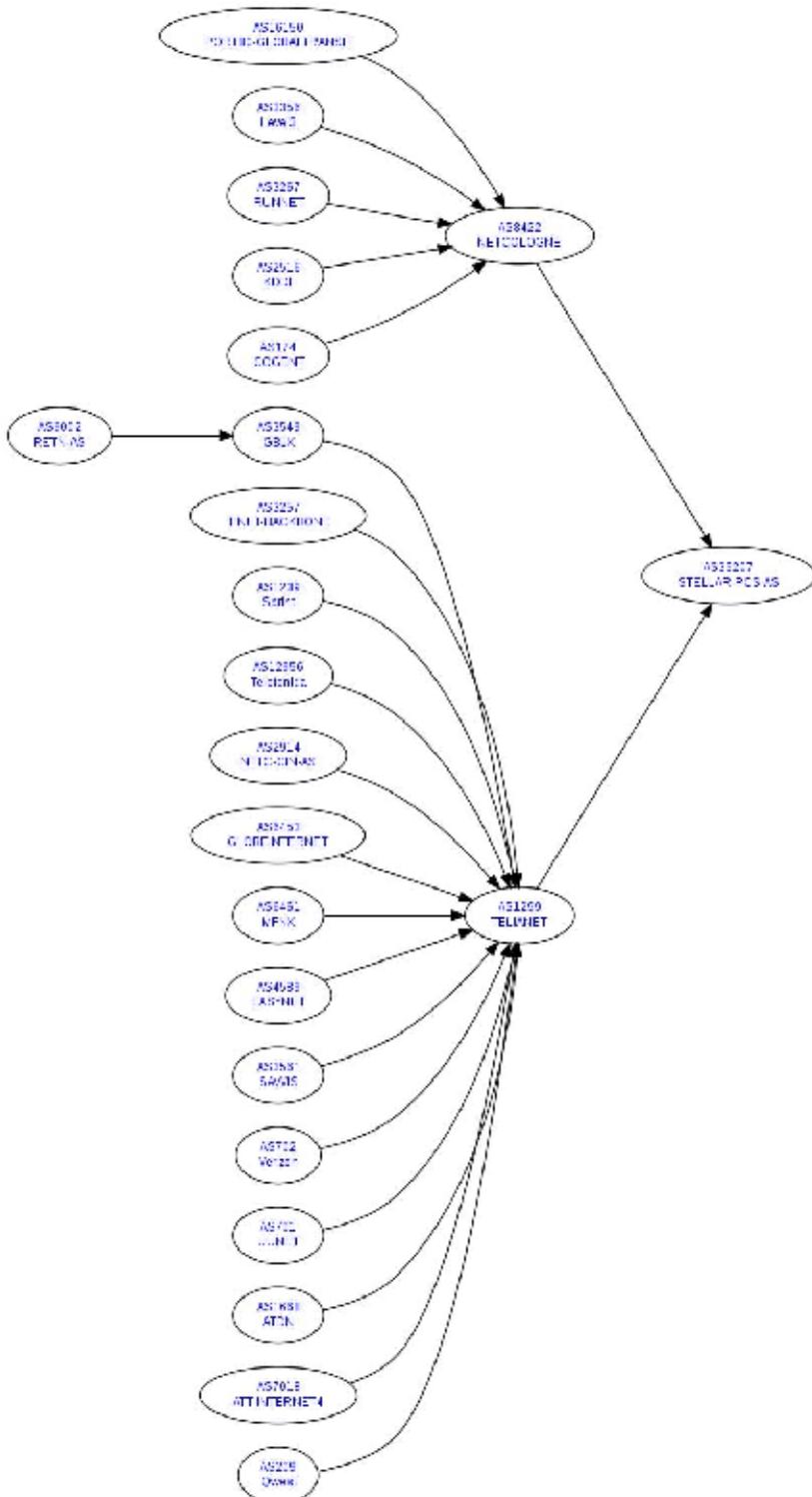
Stellar

Autonomous System: 35207



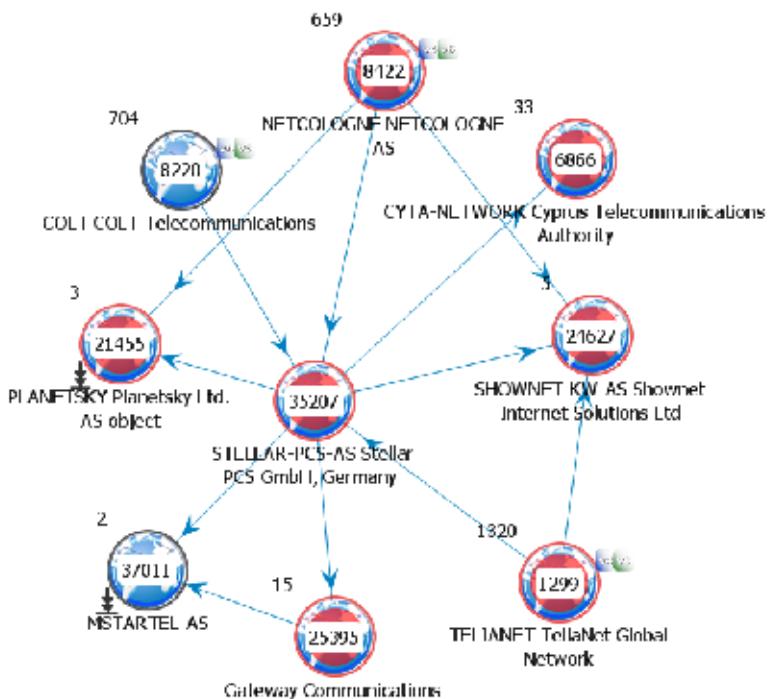
From ServerSniff

TOP SECRET STRAP1



From Robtex

TOP SECRET STRAP1



Generated via TreasureMap

IP Ranges:

80.92.48.0/20

Servers of Interest:

FTP: 80.92.48. [REDACTED]

Dns2.stellar-dbs.com: 80.92.48. [REDACTED]
Dns2.stellar-pcs.com
Dns2.stellar-bbs.com
Dns2.onf.stellar-pcs.com

Dns0.stellar-dbs.com: 80.92.48. [REDACTED]
Dns0.stellar-pcs.com
Dns0.stellar-bbs.com
bellini.stellar-pcs.com

Mx1.stellar-dbs.com: 80.92.48. [REDACTED]
Mx1.stellar-pcs.com
Mx1.onf.stellar-pcs.com

TOP SECRET STRAP1

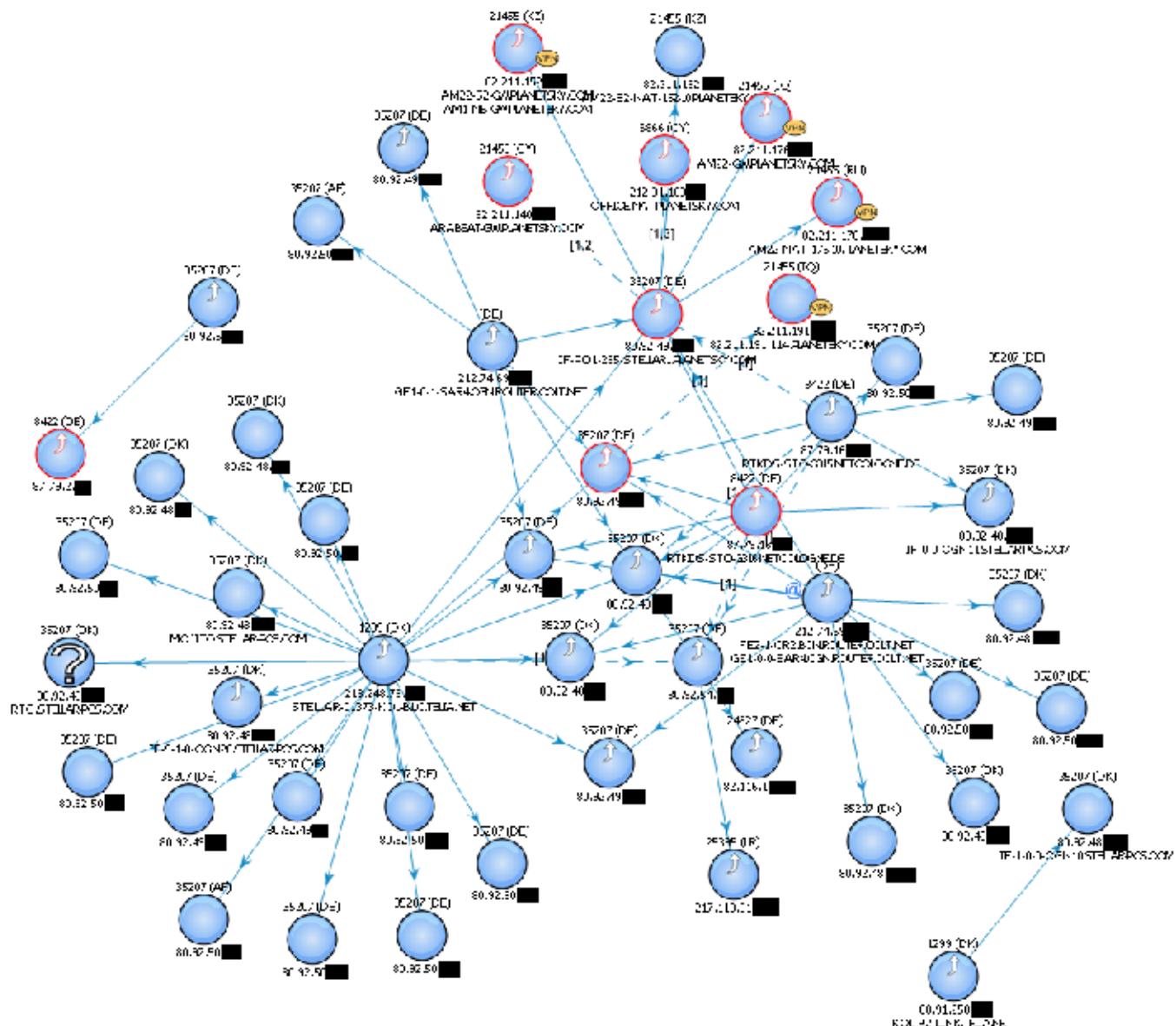
Routers Found on Tidal Surge:

Router Interface	80.92.48. [REDACTED]	FastEthernet0/1	255.255.255.128	No Description	Router: CGN-7206-7
Router Interface	80.92.48. [REDACTED]	FastEthernet0/0	255.255.255.252	No Description	Router: Cisco7206-2
Router Interface	80.92.56. [REDACTED]	FastEthernet5/1/0	255.255.255.0	*** PAKSAT SIMPLEX 3 E3 TESTING ***	Router: rwp44d2
Router Interface	80.92.56. [REDACTED]	Async1	255.255.255.0	*** Policy Routing for Touchstone to 3rd/1st STM1 ***	Router: rwp44d2

TOP SECRET STRAP1

Edge Routers:

See attached file Stellar.jmz for more detail



TOP SECRET STRAP1

Employees:

Christian Steffen [REDACTED] @stellar-pcs.com or .de - CEO of Stellar DBS
[REDACTED] @stellar-pcs.com - Engineer

Stellar-DBS NOC noc@stellar-dbs.com - NOC
[REDACTED] @stellar-pcs.com

Christoph Sommer [REDACTED] @stellar-pcs.com

Ali Fares [REDACTED] @stellar-pcs.com

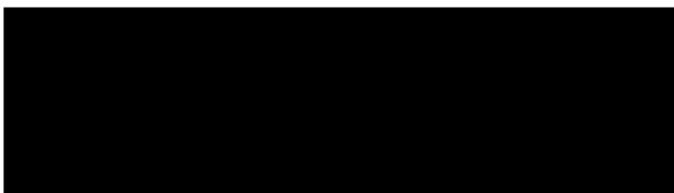
Richard Grave [REDACTED] @stellar-pcs.com

[REDACTED] @stellar-pcs.com

Simona Steffen [REDACTED] @stellar-pcs.com

[REDACTED] @stellar-pcs.com

Oliver Skaletz [REDACTED] @stellar-pcs.com



[REDACTED] @stellar-pcs.com

Customers/Partners:

Company	Satellite	Mission Digraph
Eutelsat	W5	[REDACTED]
	W6	[REDACTED]
	Hotbird 8	[REDACTED]
	Atlantic Bird 1	[REDACTED]
Intelsat	7	[REDACTED]
	10	[REDACTED]
RSCC	Express AM1	[REDACTED]
	Express AM22 (Sesat 2)	[REDACTED]
	Express A3	[REDACTED]
Paksat	1	[REDACTED]
Arabsat	2B	[REDACTED]
	Badr-4	[REDACTED]
Sirius	4 (Astra 4A)	[REDACTED]

- PlanetSky
- Horizon

TOP SECRET STRAP1

Other information of interest:

The login details to the stellar hub are as follows.

> 82.205.224 [REDACTED] or 80.92.49 [REDACTED]

> horizon

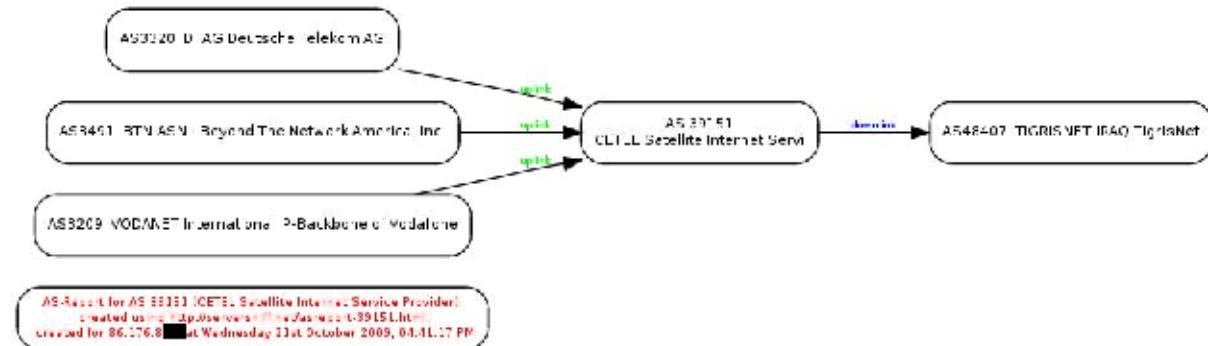
> h0r1z0n

Horizon NMS server #1: 00:21:5E [REDACTED]
> Horizon NMS server #2: 00:21:5E [REDACTED]

TOP SECRET STRAP1

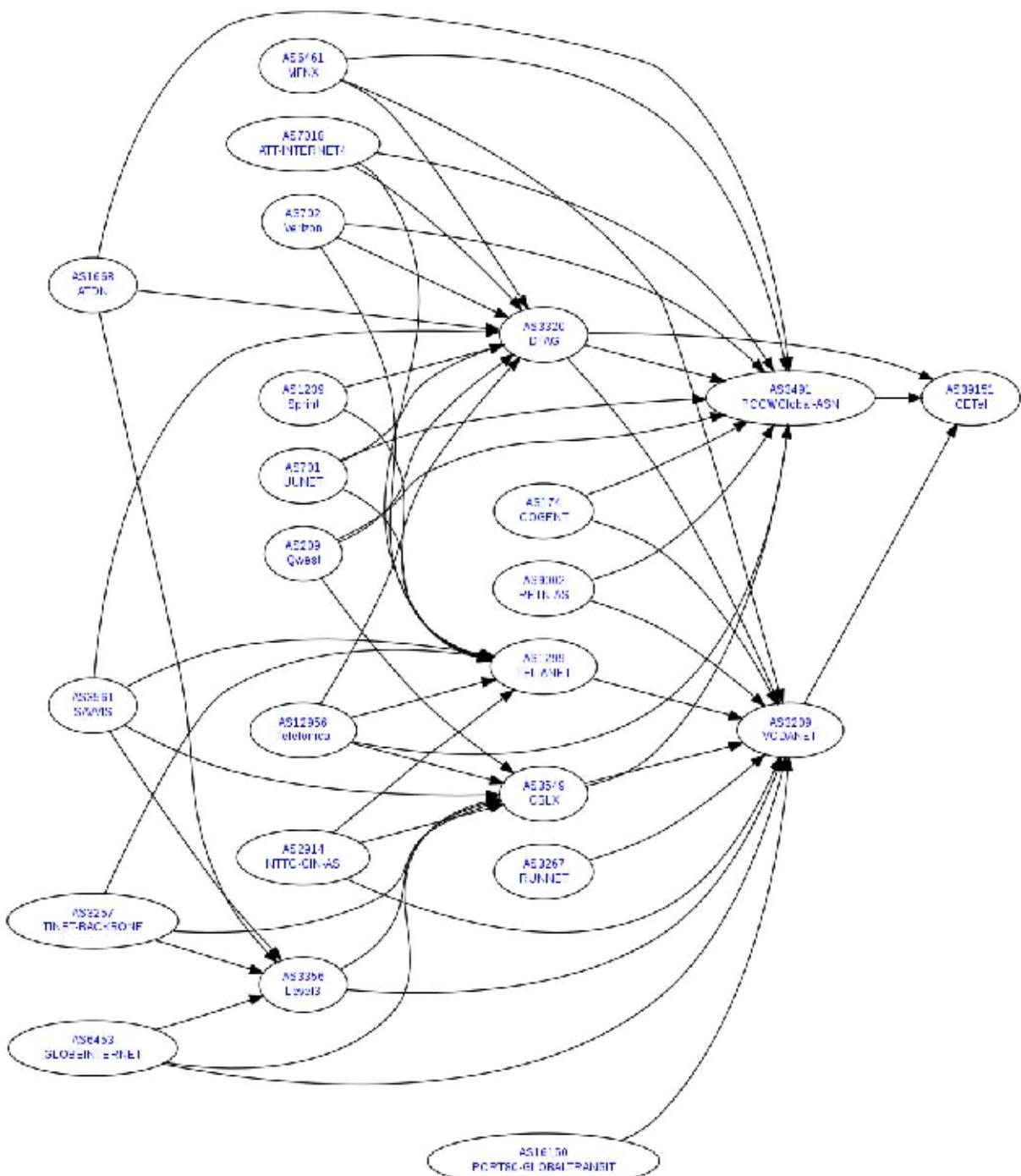
Ce-Tel

Autonomous System: 39151



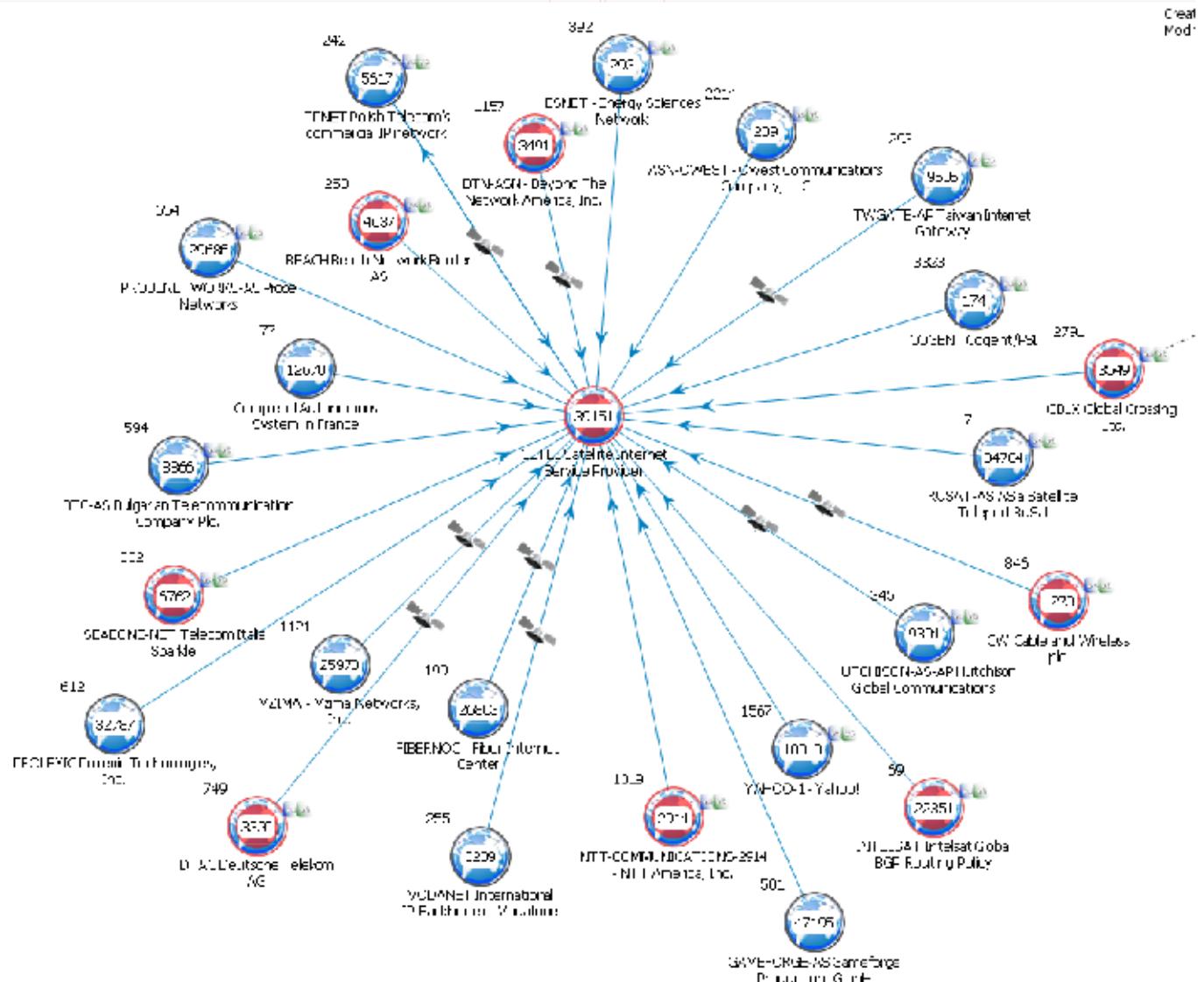
From ServerSniff

TOP SECRET STRAP1



From Robtex

TOP SECRET STRAP1



Generated via TreasureMap

TOP SECRET STRAP1

IP Ranges:

91.151.157.0/24
87.238.112.0/21
87.238.118.0/24
91.151.144.0/20
85.31.80.0/20
91.151.147.0/24
87.238.119.0/24
91.151.154.0/24
95.128.16.0/21
85.31.80.0/21
85.31.88.0/21
91.151.149.0/24
195.69.163.0/24

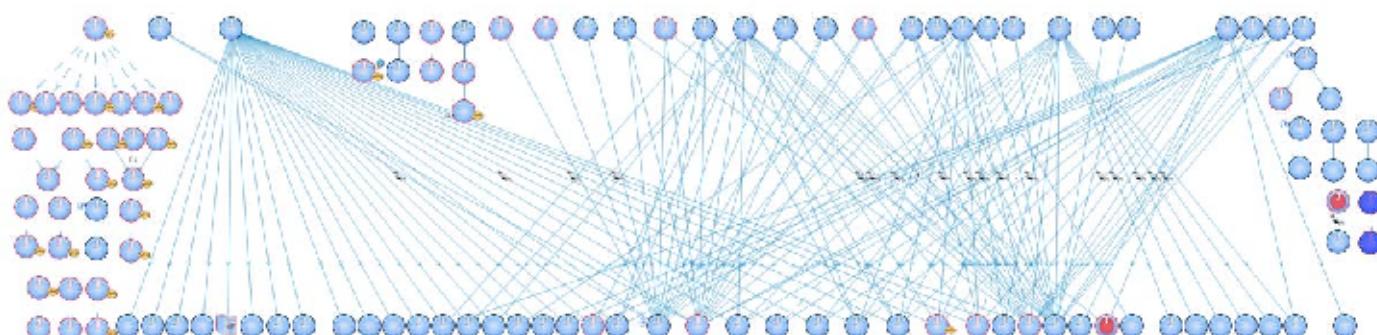
195.78.224.0/24 - CeTel network for PAKSAT

Servers of Interest:

Ns1.ce-tel.net – 87.238.112.
Ns2.ce-tel.net – 91.151.144.
Mail1.ce-tel.net – 87.238.112.
Mail.ce-tel.net – 91.151.144.

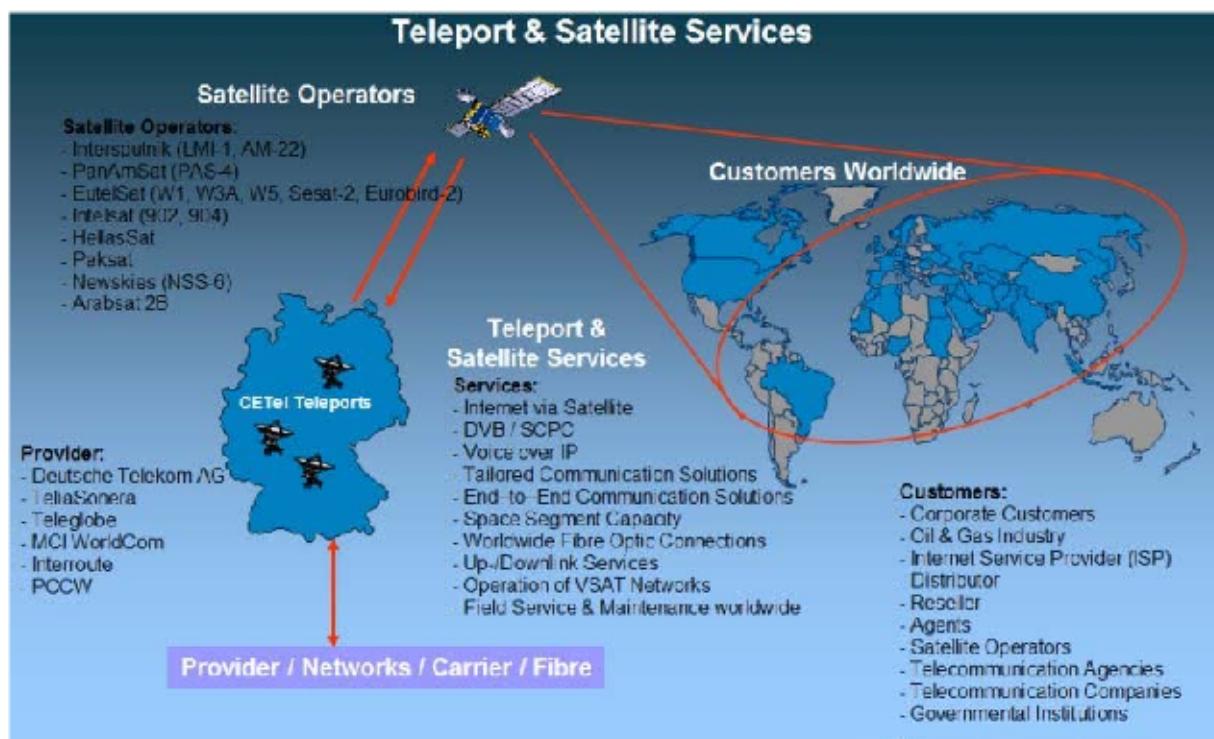
Edge Routers:

See attached file Cetel.jmz for more detail



TOP SECRET STRAP1

Customers/Partners:



Company	Satellite	Mission Diagraph
ABS	1	
Intelsat	4 (PAS-4)	
	902	
	904	
EutelSat	W1 (Eurobird 1)	
	W3A	
	W5	
	Sesat – 2 (Express AM22)	
	Eurobird-2	
Hellasat	2	
Paksat	1	
SES Newskies	NSS-6	
Arabsat	2B	

- Talia
- Sat Link
- T-Systems/Telecom
- Etisalat
- IDirect Technologies
- Cable and Wireless
- Orange

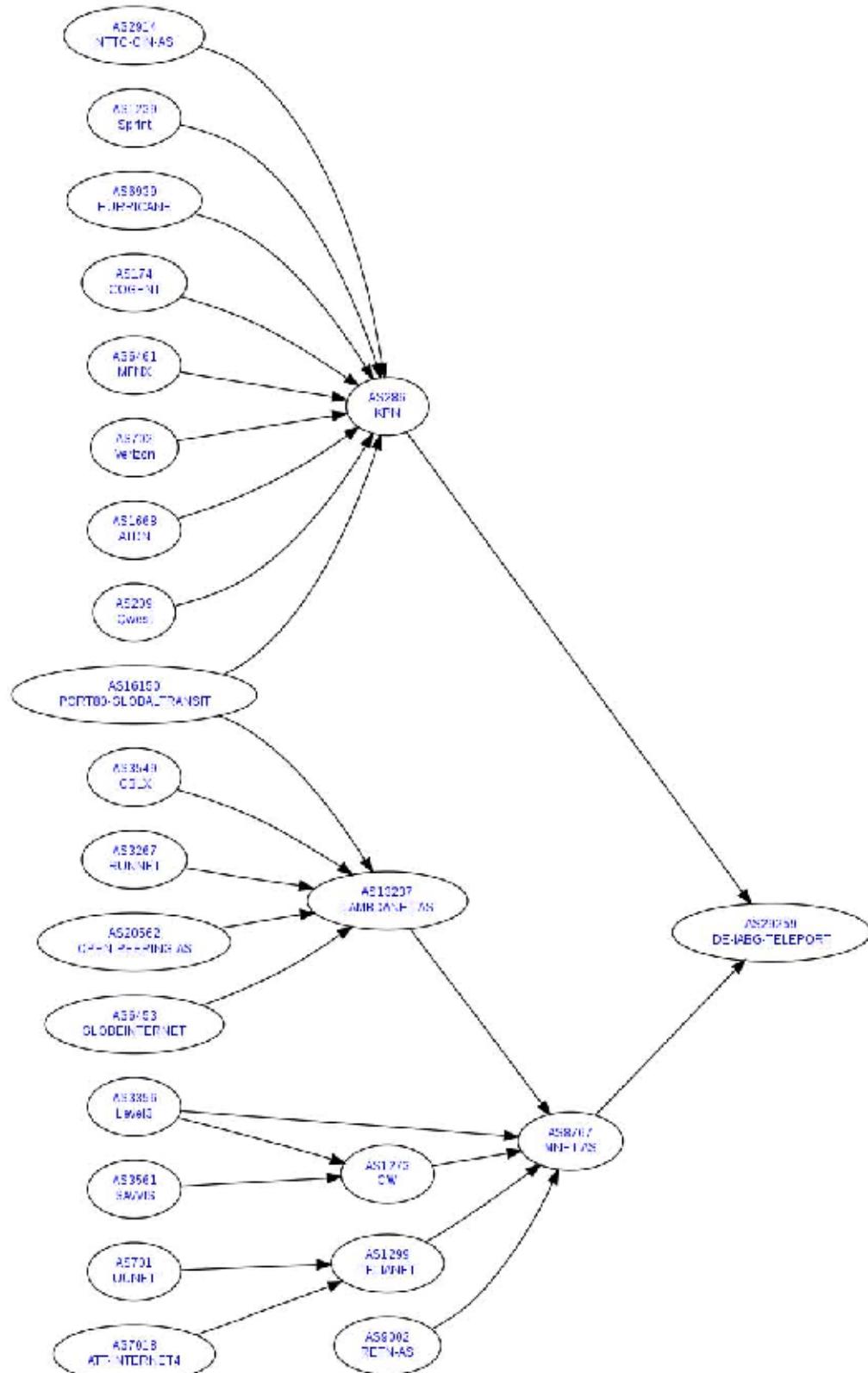
TOP SECRET STRAP1

- Newtech
- TeliaSonera
- Sematron UK
- Radyne
- VSNL International
- Global Crossing
- ND SatCom
- Reach
- Satrexx
- Equant
- MCI
- Paradise Datacom
- Codan
- Andrew
- BT
- Teleglobe
- Uruk
- Siemens

TOP SECRET STRAP1

IABG

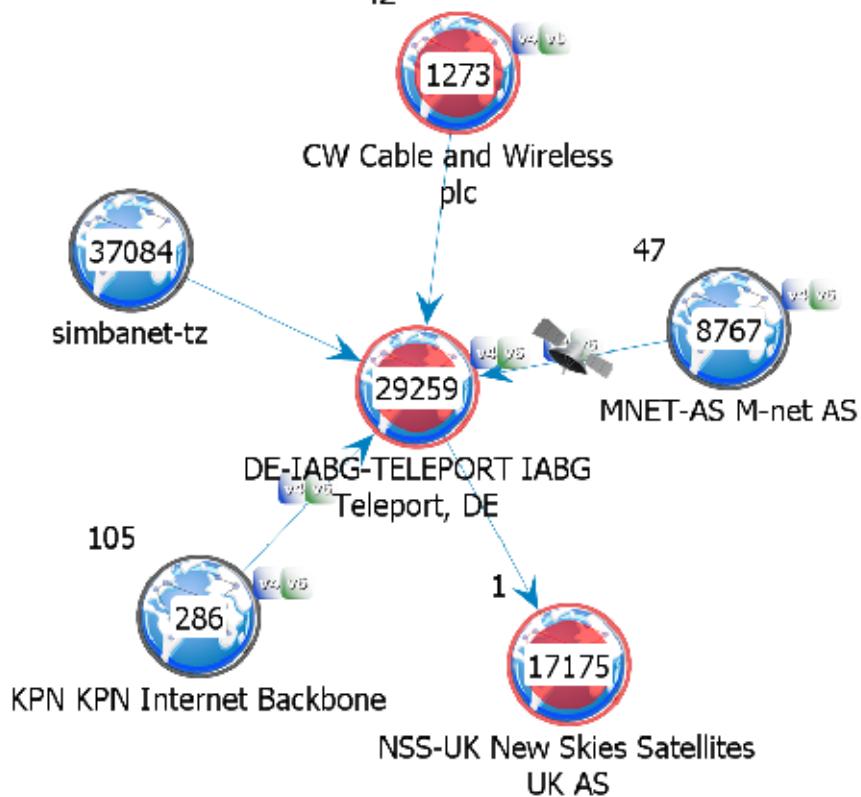
Autonomous System: 29259



From Robtex

TOP SECRET STRAP1

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Generated via TreasureMap

IP Ranges:

196.44.170.0/24
93.91.80.0/20
41.221.43.0/24
83.170.0.0/18
84.11.0.0/16
217.26.240.0/20
212.6.46.0/23

Servers of interest:

Ns1.iabg.de – 84.11.16. [REDACTED]

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This information is exempt from disclosure under the Freedom of Information Act 2000 and may be subject to exemption under other UK information legislation. Refer disclosure requests to GCHQ on [REDACTED]

TOP SECRET STRAP1

TOP SECRET STRAP1

Routers Found on Tidal Surge:

Router Interface	84.11.54. [REDACTED]	FastEthernet0/0	255.255.255.0	No Description	Router: 2610
Router Interface	84.11.48. [REDACTED]	FastEthernet0	255.255.255.224	No Description	Router: AS5300
Router Interface	84.11.48 [REDACTED]	Group-Async1	255.255.255.224	No Description	Router: AS5300
Router Interface	84.11.48 [REDACTED]	Serial0	255.255.255.224	No Description	Router: AS5300
Router Interface	84.11.33 [REDACTED]	FastEthernet0	255.255.255.0	No Description	Router: AS5300-Heraat
Router Interface	84.11.33 [REDACTED]	Group-Async0	255.255.255.0	No Description	Router: AS5300-Heraat
Router Interface	84.11.107 [REDACTED]	Ethernet0	255.255.255.252	Multan DVB	Router: AS5300-Multan
Router Interface	84.11.28. [REDACTED]	FastEthernet0	255.255.255.224	No Description	Router: AS5300_ghilas
Router Interface	84.11.28. [REDACTED]	Serial0	255.255.255.224	No Description	Router: AS5300_ghilas
Router Interface	84.11.42. [REDACTED]	FastEthernet0/0	255.255.255.224	No Description	Router: AS5400-1
Router Interface	84.11.140. [REDACTED]	Serial0/0/0	255.255.255.0	InternetLink	Router: ArbilSite
Router Interface	84.11.140. [REDACTED]	FastEthernet0/0	255.255.255.0	WanLink	Router: ArbilSite
Router Interface	84.11.25 [REDACTED]	Ethernet0	255.255.255.0	No Description	Router: Atrak
Router Interface	84.11.43 [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: DIG-SCPC6
Router Interface	84.11.140 [REDACTED]	Serial0/0/0	255.255.255.0	DVB	Router: DVB
Router Interface	84.11.140 [REDACTED]	FastEthernet0/0	255.255.255.0	No Description	Router: DVB
Router Interface	84.11.140 [REDACTED]	FastEthernet0/0	255.255.255.240	No Description	Router: FTP
Router	84.11.140 [REDACTED]	Serial0/0	255.255.255.240	No Description	Router: FTP

TOP SECRET STRAP1

Interface					
Router Interface	84.11.77 [REDACTED]	Ethernet0/0	255.255.255.192	No Description	Router: GW2610
Router Interface	84.11.77 [REDACTED]	Serial0/0	255.255.255.192	No Description	Router: GW2610
Router Interface	84.11.77 [REDACTED]	FastEthernet4/1	255.255.255.192	No Description	Router: GW3845
Router Interface	84.11.62 [REDACTED]	FastEthernet0/0	255.255.255.0	Gateway	Router: Gateway
Router Interface	84.11.62 [REDACTED]	Serial0/0/0	255.255.255.0	Sat	Router: Gateway
Router Interface	84.11.62 [REDACTED]	FastEthernet0	255.255.255.0	No Description	Router: Gateway_3
Router Interface	84.11.62 [REDACTED]	FastEthernet0	255.255.255.0	No Description	Router: Gateway_4
Router Interface	84.11.62 [REDACTED]	FastEthernet0	255.255.255.0	IPCALLER	Router: Gateway_5
Router Interface	84.11.7 [REDACTED]	FastEthernet0/0	255.255.255.240	outside\$ETH-LAN\$	Router: Hillah
Router Interface	84.11.114 [REDACTED]	GigabitEthernet0/2	255.255.255.192	No Description	Router: ISP-1
Router Interface	84.11.115 [REDACTED]	GigabitEthernet0/1	255.255.255.224	No Description	Router: ISP-1
Router Interface	84.11.113. [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: JT001
Router Interface	84.11.113. [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: JT002
Router Interface	84.11.113. [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: JT004
Router Interface	84.11.113. [REDACTED]	FastEthernet0/0	255.255.255.240	No Description	Router: JT004
Router Interface	84.11.113. [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: JT005
Router Interface	84.11.113. [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: JT006
Router Interface	84.11.113. [REDACTED]	FastEthernet0/0	255.255.255.240	No Description	Router: JT006

TOP SECRET STRAP1

Router Interface	84.11.113. [REDACTED]	Serial0/0/0	255.255.255.240	No Description	Router: JT006
Router Interface	84.11.113. [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: JT008
Router Interface	84.11.113. [REDACTED]	FastEthernet0/0	255.255.255.240	No Description	Router: JT009
Router Interface	84.11.113. [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: JT013
Router Interface	84.11.113. [REDACTED]	Serial0	255.255.255.240	No Description	Router: JT013
Router Interface	84.11.85. [REDACTED]	Ethernet0/0	255.255.255.240	No Description	Router: MAHMOD
Router Interface	84.11.41. [REDACTED]	Ethernet0	255.255.255.192	No Description	Router: ORANUS
Router Interface	84.11.41. [REDACTED]	Serial0	255.255.255.192	No Description	Router: ORANUS
Router Interface	84.11.93. [REDACTED]	GigabitEthernet0/0	255.255.255.0	\$ETH-LAN\$\$ETH-SW-LAUNCH\$\$INTF-INFO-GE 0/0\$	Router: PRESS-Router
Router Interface	84.11.14. [REDACTED]	Ethernet0/0	255.255.255.248	No Description	Router: Router
Router Interface	84.11.14. [REDACTED]	Serial0/0	255.255.255.248	No Description	Router: Router
Router Interface	84.11.19. [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.29. [REDACTED]	Ethernet0	255.255.255.192	No Description	Router: Router
Router Interface	84.11.29. [REDACTED]	Serial0	255.255.255.192	No Description	Router: Router
Router Interface	84.11.30. [REDACTED]	Ethernet0/0	255.255.255.224	No Description	Router: Router
Router Interface	84.11.32. [REDACTED]	Ethernet0	255.255.255.0	No Description	Router: Router
Router Interface	84.11.32. [REDACTED]	Serial0	255.255.255.0	No Description	Router: Router
Router	84.11.36. [REDACTED]	FastEthernet0	255.255.255.192	No Description	Router: Router

TOP SECRET STRAP1

Interface					
Router Interface	84.11.36 [REDACTED]	Serial0	255.255.255.192	No Description	Router: Router
Router Interface	84.11.61 [REDACTED]	FastEthernet0/0	255.255.255.224	No Description	Router: Router
Router Interface	84.11.80 [REDACTED]	FastEthernet0	255.255.255.192	No Description	Router: Router
Router Interface	84.11.88 [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.88 [REDACTED]	FastEthernet0/0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.88 [REDACTED]	FastEthernet0/0	255.255.255.248	No Description	Router: Router
Router Interface	84.11.113 [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.113 [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.113 [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.113 [REDACTED]	FastEthernet0/0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.113 [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.137 [REDACTED]	FastEthernet0/0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.137 [REDACTED]	Serial0/0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.139 [REDACTED]	FastEthernet0/0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.139 [REDACTED]	Serial0/0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.140 [REDACTED]	Ethernet0/0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.140 [REDACTED]	Serial0/0	255.255.255.240	No Description	Router: Router
Router Interface	84.11.249 [REDACTED]	FastEthernet0	255.255.255.240	No Description	Router: Router

TOP SECRET STRAP1

Router Interface	84.11.60 [REDACTED]	FastEthernet0/0	255.255.255.240	No Description	Router: Router-243
Router Interface	84.11.26 [REDACTED]	FastEthernet0/0	255.255.255.224	No Description	Router: Router71
Router Interface	84.11.138 [REDACTED]	FastEthernet0	255.255.255.224	No Description	Router: SKYBAGHDAD012
Router Interface	84.11.138 [REDACTED]	Serial0	255.255.255.224	No Description	Router: SKYBAGHDAD012
Router Interface	84.11.138 [REDACTED]	FastEthernet0	255.255.255.224	No Description	Router: SKYBAGHDAD013
Router Interface	84.11.138 [REDACTED]	Serial0	255.255.255.224	No Description	Router: SKYBAGHDAD013
Router Interface	84.11.138 [REDACTED]	Serial1	255.255.255.224	No Description	Router: SKYBAGHDAD013
Router Interface	84.11.138 [REDACTED]	FastEthernet0/0	255.255.255.240	No Description	Router: SkyBagh03
Router Interface	84.11.32 [REDACTED]	Ethernet0	255.255.255.224	No Description	Router: UROM-1
Router Interface	84.11.32 [REDACTED]	Virtual-Template1	255.255.255.224	No Description	Router: UROM-1
Router Interface	84.11.75 [REDACTED]	FastEthernet0/0	255.255.255.224	No Description	Router: V161
Router Interface	84.11.60 [REDACTED]	GigabitEthernet0/0	255.255.255.252	RECEIVE _ DISH	Router: factory3845
Router Interface	84.11.60 [REDACTED]	Serial0/0/0	255.255.255.252	SEND_DISH	Router: factory3845
Router Interface	84.11.60 [REDACTED]	Loopback0	255.255.255.252	No Description	Router: factory3845
Router Interface	84.11.4 [REDACTED]	FastEthernet0/0.6	255.255.255.0	TKC.TRANS Segment	Router: gate.tkckish.com
Router Interface	84.11.141 [REDACTED]	FastEthernet0/0	255.255.255.224	No Description	Router: iConnect
Router Interface	84.11.141 [REDACTED]	Serial0/0	255.255.255.224	No Description	Router: iConnect
Router Interface	84.11.141 [REDACTED]	Ethernet0	255.255.255.240	No Description	Router: iraq1
Router	84.11.141 [REDACTED]	Serial0	255.255.255.240	No Description	Router: iraq1

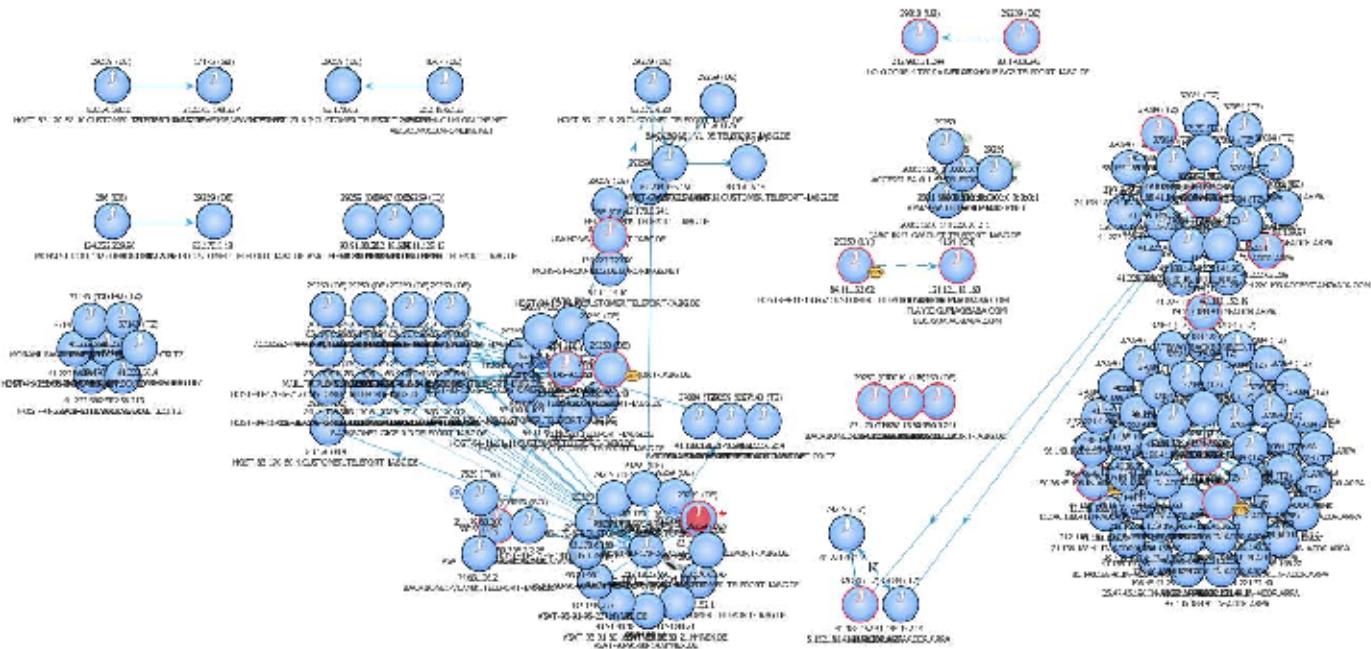
TOP SECRET STRAP1

Interface					
Router Interface	84.11.39 [REDACTED]	FastEthernet0/0	255.255.255.248	No Description	Router: net
Router Interface	84.11.39 [REDACTED]	Serial1/0	255.255.255.248	No Description	Router: net
Router Interface	84.11.39 [REDACTED]	Virtual-Template1	255.255.255.248	No Description	Router: net
Router Interface	84.11.39 [REDACTED]	Loopback1	255.255.255.252	No Description	Router: net
Router Interface	84.11.41 [REDACTED]	Ethernet0	255.255.255.192	No Description	Router: router
Router Interface	84.11.41 [REDACTED]	Serial0	255.255.255.192	No Description	Router: router
Router Interface	84.11.30 [REDACTED]	FastEthernet0/0	255.255.255.248	No Description	Router: saeed
Router Interface	84.11.113 [REDACTED]	FastEthernet0/0	255.255.255.240	No Description	Router: skyb28
Router Interface	84.11.113 [REDACTED]	Serial0/0/0	255.255.255.240	No Description	Router: skyb28
Router Interface	84.11.141 [REDACTED]	Ethernet0/0	255.255.255.240	No Description	Router: skybaghdad16
Router Interface	84.11.141 [REDACTED]	Serial0/0	255.255.255.240	No Description	Router: skybaghdad16
Router Interface	212.6.47 [REDACTED]	FastEthernet0/1	255.255.255.248	No Description	Router: 3662
Router Interface	212.6.47 [REDACTED]	Serial1/0	255.255.255.248	No Description	Router: 3662
Router Interface	212.6.46 [REDACTED]	Ethernet0/0	255.255.255.0	Connected to Mirdamad	Router: Mir_Int
Router Interface	212.6.46 [REDACTED]	Serial0/0	255.255.255.0	Connected to Satellite	Router: Mir_Int

TOP SECRET STRAP1

Edge Routers:

See IABG.jmz for more details.



Gateway Routers:

134.222.112

TOP SECRET STRAP1

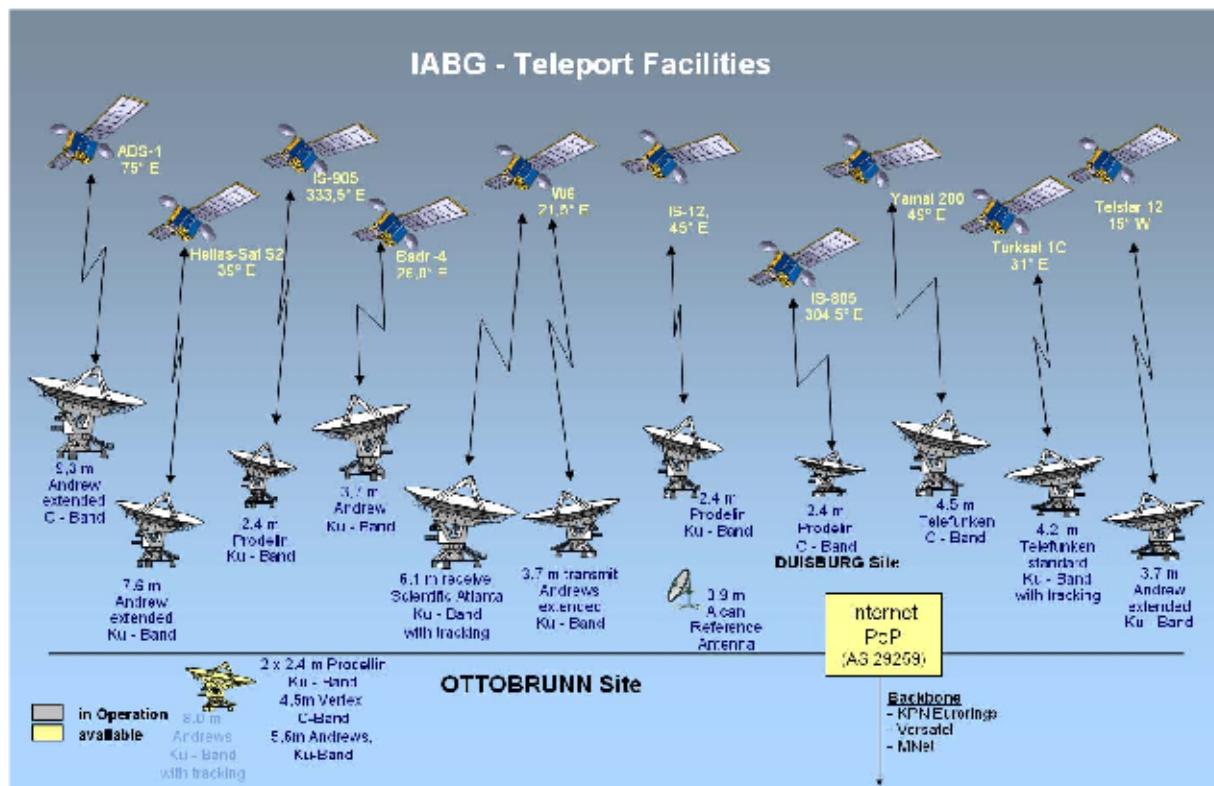
Employees:

[REDACTED] @iabg.de
[REDACTED] @iabg.de
[REDACTED] @iabg.de
[REDACTED] @iabg.de

[REDACTED] @TELEPORT-IABG.DE
[NOC@IABG.DE](#) - [noc@teleport-iabg.de](#)
[REDACTED] @IABG.DE
[REDACTED] @IABG.DE
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TOP SECRET STRAP1

Customers/Partners:



Company	Satellite	Mission Digraph
ABS	1	
Hellasat	2	
Intelsat	905	
	12	
Arabsat	Badr-4	
Eutelsat	W6	
Gazprom	Yamal 202	
Turksat	1C	
Telstar	12	

- T-Systems/Telecom
- KPN
- M-Net
- Versatel