



BGP-Peer Analysis based on Netflow

Andre Kosak

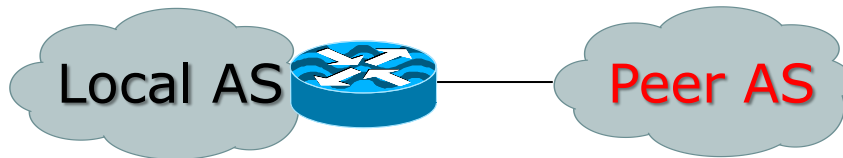
20. Oktober 2011

Netflow BGP information

Netflow BGP

Which BGP information can Netflow provide for you?

- Peering information: **Peer AS number**

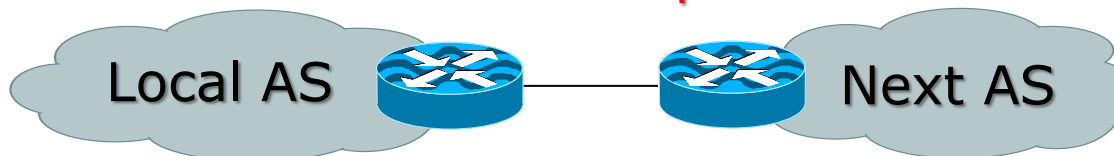


or Origin information: **Origin AS Number**



- *and* BGP Next-hop router's IP: **IP address**

Next hop IP address



Measurement

Measurement

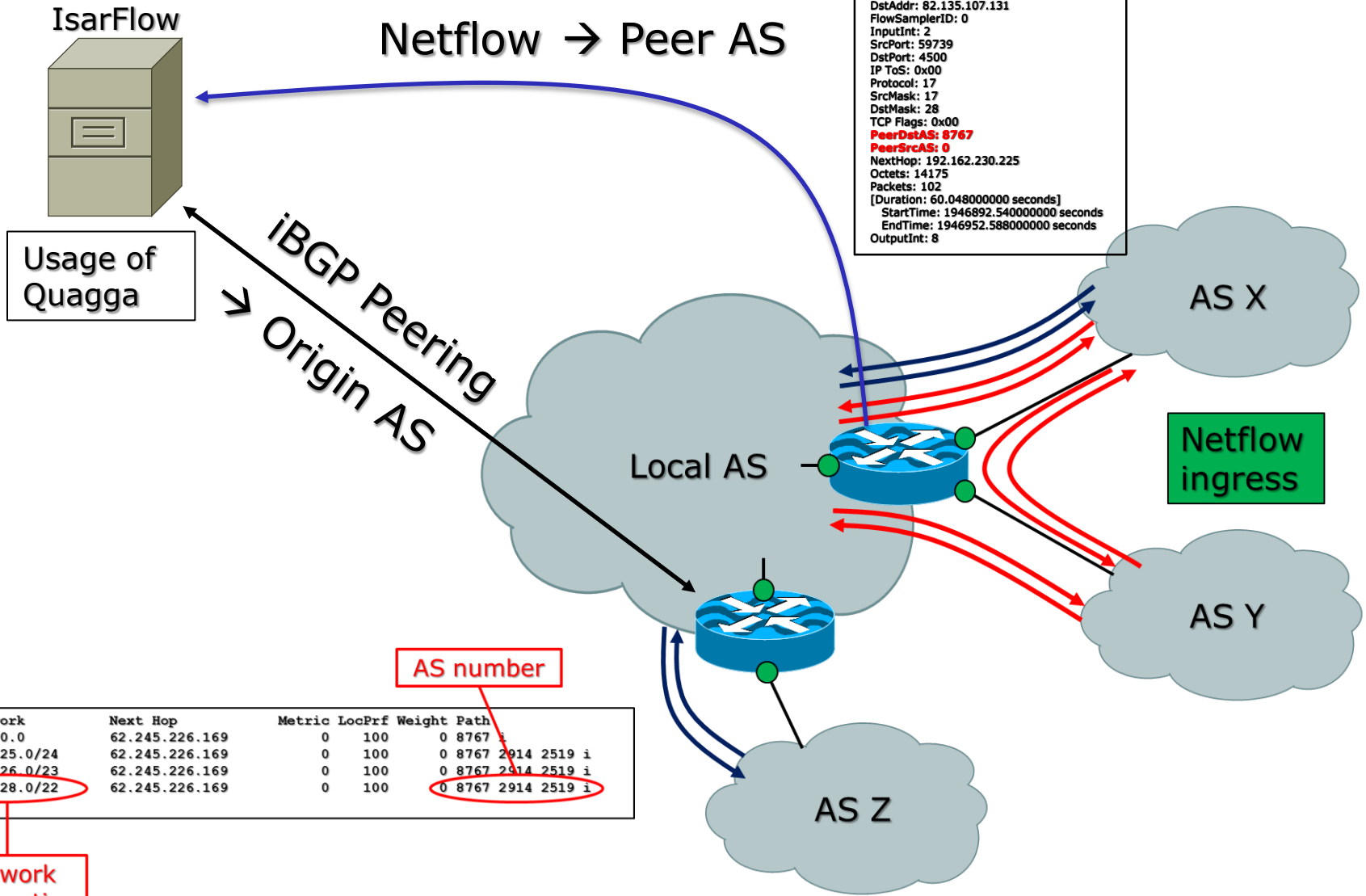
SrcAddr: 212.114.252.118
DstAddr: 82.135.107.131
FlowSamplerID: 0
InputInt: 2
SrcPort: 59739
DstPort: 4500
IP ToS: 0x00
Protocol: 17
SrcMask: 17
DstMask: 28
TCP Flags: 0x00
PeerDstAS: 8767
PeerSrcAS: 0
NextHop: 192.162.230.225
Octets: 14175
Packets: 102
[Duration: 60.048000000 seconds]
StartTime: 1946892.540000000 seconds
EndTime: 1946952.588000000 seconds
OutputInt: 8

Netflow
ingress

AS number

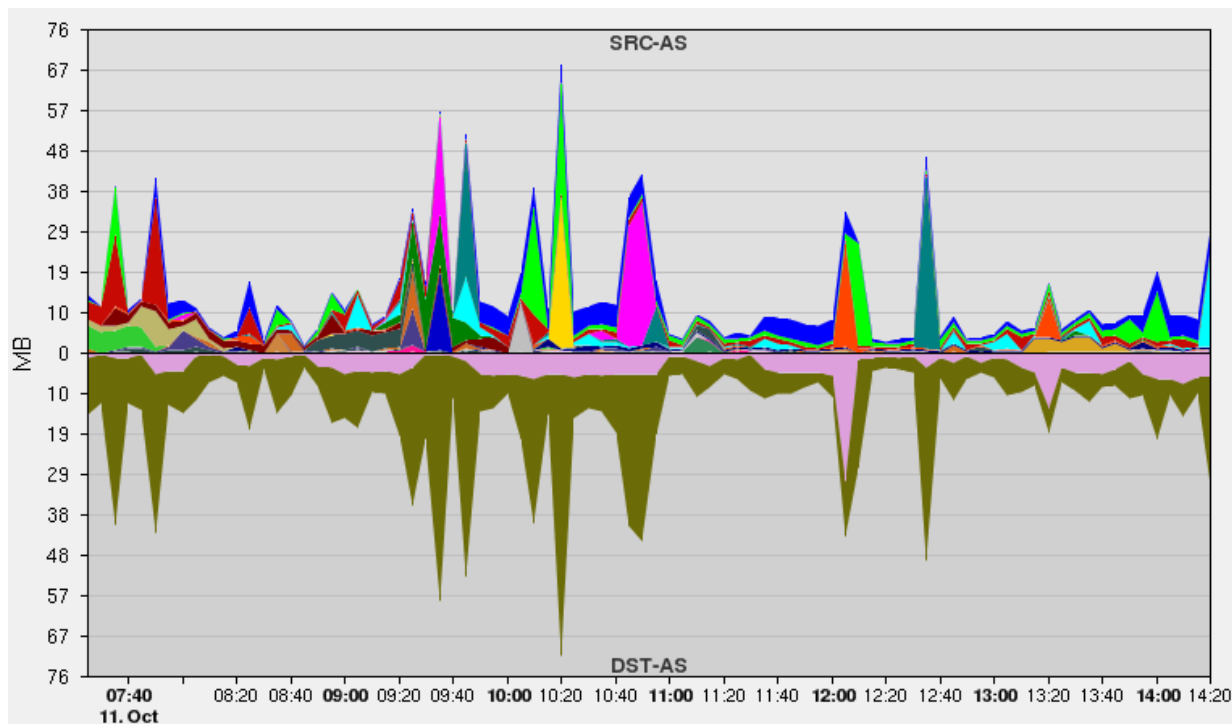
Network	Next Hop	Metric	LocPrf	Weight	Path
*>i0.0.0.0	62.245.226.169	0	100	0	8767 i
*>i1.0.25.0/24	62.245.226.169	0	100	0	8767 2914 2519 i
*>i1.0.26.0/23	62.245.226.169	0	100	0	8767 2914 2519 i
*>i1.0.28.0/22	62.245.226.169	0	100	0	8767 2914 2519 i

Network
Information



SRC/DST Analysis: All border router interfaces, input only

SRC/DST Analysis



Number	SRC-AS	DST-AS	Byte	%
IsarNet AG	0 B	1020.78 MB	1020.78 MB	40.78
IS	8.36 MB	301.58 MB	309.94 MB	12.38
Telekom AG	189.14 MB	0 B	189.14 MB	7.56
AG	163.03 MB	0 B	163.03 MB	6.51
	136 MB	0 B	136 MB	5.43
WiN	90.12 MB	0 B	90.12 MB	3.60
al Backbone	85.73 MB	0 B	85.73 MB	3.42
Akamai Technologies European AS	73.23 MB	0 B	73.23 MB	2.93
	49.70 MB	0 B	49.70 MB	1.99
tems International GmbH	45.58 MB	0 B	45.58 MB	1.82
IP Service	43.99 MB	0 B	43.99 MB	1.76
S Cleanport B.V.	36.15 MB	0 B	36.15 MB	1.44
seNet Telekommunikation GmbH	33.45 MB	0 B	33.45 MB	1.34

14	13335 CLOUDFLARENET	28.98 MB	0 B	28.98 MB	1.16
15	8560 ONEANDONE-AS 1&1 Internet AG	28.06 MB	0 B	28.06 MB	1.12
16	36351 SOFTLAYER	26.16 MB	0 B	26.16 MB	1.04
17	1299 TELIANET TeliaNet Global Network	24.29 MB	0 B	24.29 MB	0.97
18	3257 TINET-BACKBONE Tinet SpA	24.18 MB	0 B	24.18 MB	0.97
19	6720 MAGWIEN Magistrat der Stadt Wien	18.44 MB	0 B	18.44 MB	0.74
20	41231 CANONICAL-AS Canonical Ltd	17.93 MB	0 B	17.93 MB	0.72
21	16509 AMAZON-02	13.60 MB	0 B	13.60 MB	0.54
22	32934 FACEBOOK	11.51 MB	0 B	11.51 MB	0.46
23	8220 COLT COLT Technology Services Group Limited	8.08 MB	1.98 MB	10.05 MB	0.40
24	15598 IP-EXCHANGE IP Exchange GmbH	7.85 MB	0 B	7.85 MB	0.31
25	15133 EDGECAST	7.76 MB	0 B	7.76 MB	0.31

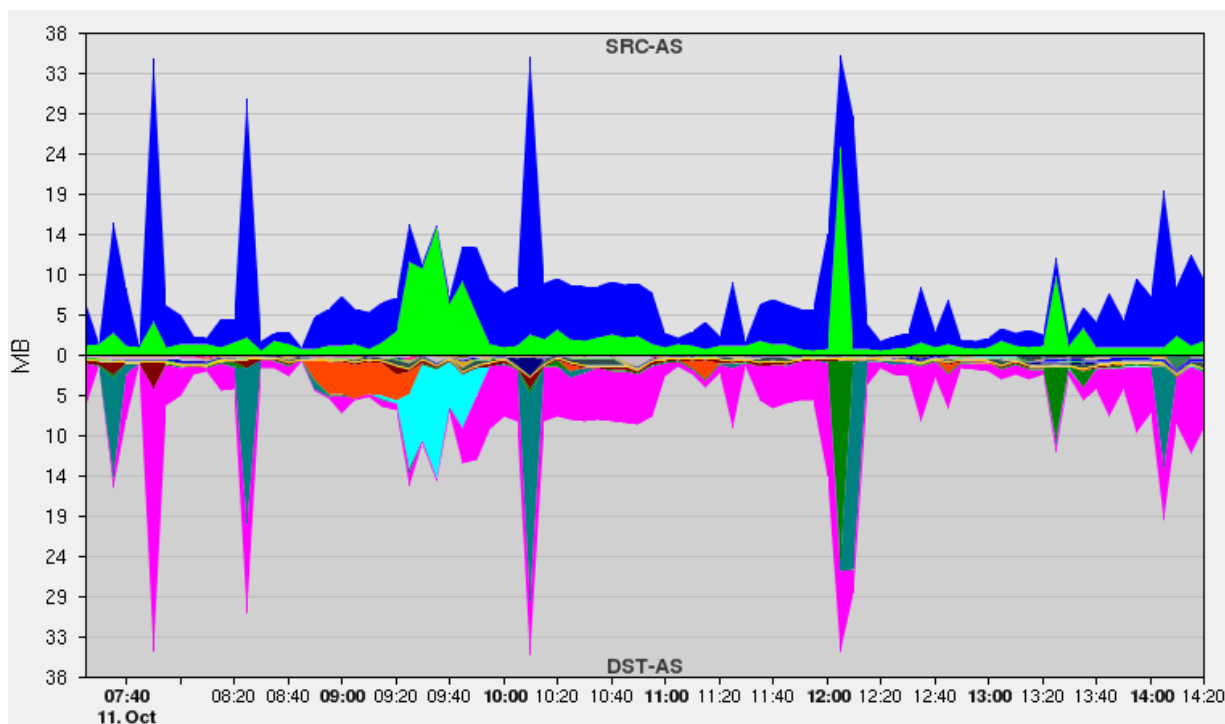
Gesamter Verkehr

2.44 GB 100.00

CSV Export

SRC/DST Analysis: All border router interfaces, output only

SRC/DST Analysis

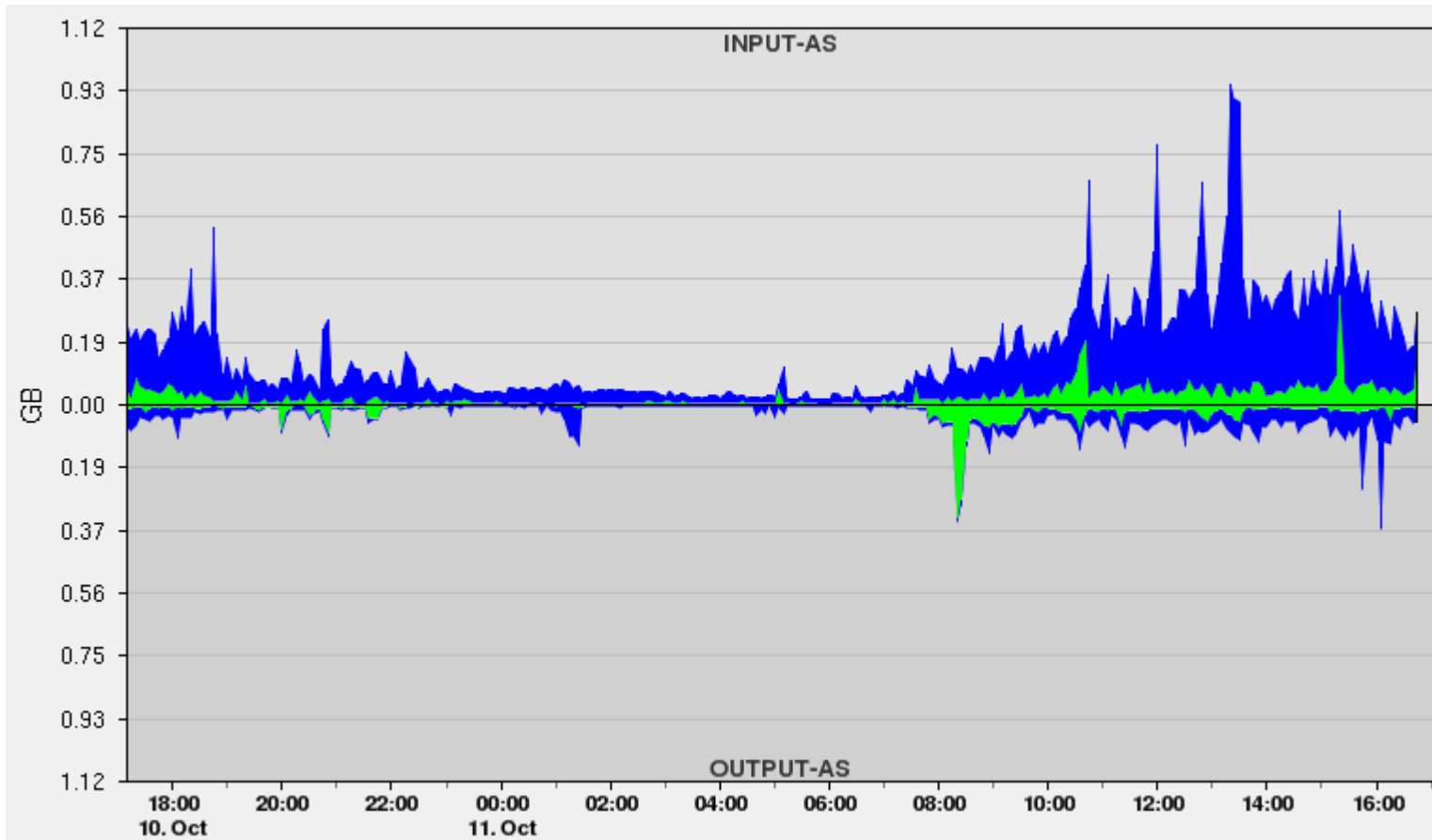


SNumber	SRC-AS	DST-AS	Byte	%
AS	466.02 MB	4.27 MB	470.29 MB	36.29
Telekom AG	0 B	310 MB	310 MB	23.92
sarNet AG	194.58 MB	0 B	194.58 MB	15.01
Items International GmbH	0 B	102.33 MB	102.33 MB	7.90
	0 B	46.50 MB	46.50 MB	3.59
AG	0 B	42.77 MB	42.77 MB	3.30
seNet Telekommunikation GmbH	0 B	33.14 MB	33.14 MB	2.56
	0 B	21.58 MB	21.58 MB	1.67
s InTouch Internet Services	0 B	16.04 MB	16.04 MB	1.24
Akamai Technologies European AS	0 B	10.45 MB	10.45 MB	0.81
chaeffler Autonomous System	0 B	5.98 MB	5.98 MB	0.46
Telekom Deutschland GmbH	0 B	5.19 MB	5.19 MB	0.40
nik Industries AG	0 B	5.01 MB	5.01 MB	0.39

14	8560 ONEANDONE-AS 1&1 Internet AG	0 B	4.24 MB	4.24 MB	0.33
15	8075 MICROSOFT-CORP---MSN-AS-BLOCK	0 B	3.54 MB	3.54 MB	0.27
16	32934 FACEBOOK	0 B	3.31 MB	3.31 MB	0.26
17	680 DFN-IP service G-Win	0 B	3.19 MB	3.19 MB	0.25
18	6720 MAGWIEN Magistrat der Stadt Wien	0 B	2.75 MB	2.75 MB	0.21
19	13335 CLOUDFLARENET	0 B	2.33 MB	2.33 MB	0.18
20	786 JANET The JANET IP Service	0 B	2.25 MB	2.25 MB	0.17
21	3257 TINET-BACKBONE Tinet SpA	0 B	2.01 MB	2.01 MB	0.16
22	16097 HLKOMM HL komm Telekommunikations GmbH	0 B	1.91 MB	1.91 MB	0.15
23	1299 TELIANET TeliaNet Global Network	0 B	1.87 MB	1.87 MB	0.14
24	13030 INIT7 Init7 Global Backbone	0 B	1.79 MB	1.79 MB	0.14
25	6878 AS6878-T-SYSTEMS T-Systems ES GmbH	0 B	1.50 MB	1.50 MB	0.12
Gesamter Verkehr			1.27 GB	100.00	
CSV Export					

BGP Upstream Analysis

Upstream Analysis

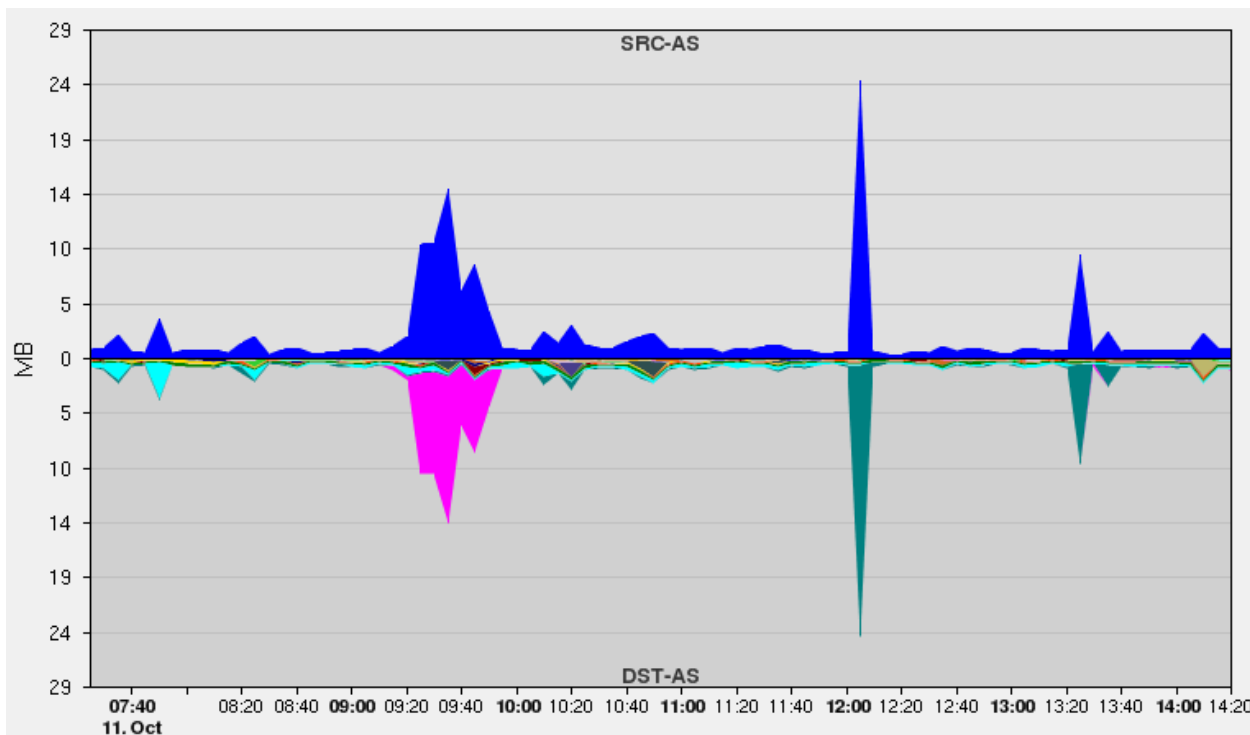


Nr.	ASNumber	peer-AS-IN	peer-AS-OUT	Byte	%
1	3209 VODANET International IP-Backbone of Vodafone	39.45 GB	7.23 GB	46.67 GB	80.49
2	3320 DTAG Deutsche Telekom AG	7.19 GB	4.11 GB	11.31 GB	19.50
3	0 -Reserved AS-	6.82 MB	581.60 KB	7.39 MB	0.01
Gesamter Verkehr				57.99 GB	100.00
CSV Export					

SRC/DST Analysis: All border router interfaces, output only

SRC/DST Analysis

Filter on first peering partner



Number	SRC-AS	DST-AS	Byte	%
AG	166.97 MB	0 B	166.97 MB	51.27
	0 B	46.49 MB	46.49 MB	14.28
	0 B	42.77 MB	42.77 MB	13.13
	0 B	21.17 MB	21.17 MB	6.50
h Internet Services	0 B	16.04 MB	16.04 MB	4.93
arnet AG	0 B	4.24 MB	4.24 MB	1.30
N-AS-BLOCK	0 B	3.35 MB	3.35 MB	1.03
	0 B	3.31 MB	3.31 MB	1.02
	0 B	3.19 MB	3.19 MB	0.98
ommunikations GmbH	0 B	1.91 MB	1.91 MB	0.59
I Network	0 B	1.87 MB	1.87 MB	0.57
AG	0 B	1.83 MB	1.83 MB	0.56
bone	0 B	1.77 MB	1.77 MB	0.54
14	24875 NL-ISPSERVICES Cleanport B.V.	0 B	1.27 MB	0.39
15	36692 OPENDNS	0 B	1.17 MB	0.36
16	3356 LEVEL3 Level 3 Communications	0 B	1.06 MB	0.33
17	24940 HETZNER-AS Hetzner Online AG RZ	0 B	1.05 MB	0.32
18	109 CISCO-EU-109 Cisco Systems Global ASN	0 B	1.01 MB	0.31
19	2914 NTT-COMMUNICATIONS-2914	0 B	895.55 KB	0.27
20	15224 OMNITURE =====	0 B	817.36 KB	0.25
21	6805 TDDE-ASN1 Telefonica o2 Germany Autonomous System	0 B	714.96 KB	0.21
22	15598 IP-EXCHANGE IP Exchange GmbH	0 B	693.10 KB	0.21
23	8767 MNET-AS M-net AS	18.62 KB	595.83 KB	0.18
24	174 COGENT Cogent/PSI	0 B	539.55 KB	0.16
25	15133 EDGECAST	0 B	520.07 KB	0.16
Gesamter Verkehr			325.65 MB	100.00
CSV Export				

InterfaceViews: **Gesamte Gruppe: BGP-Test1 ()**

Interface Richtung: **Nur Output**

IPView 1: **Kein IPView**

Inklusive: ☒

Upstream AS: **MNET-AS (AS 8767)**

Ziel AS: **Alle**

Contact Information

isarflow.com

IsarNet Software Solutions GmbH
Terminalstrasse Mitte 18
85356 Munich
Germany

Tel: +49 89 97007 499

Fax: +49 89 97007 200

isarflow@isarnet.de

<http://www.isarnet.com>

<http://www.isarflow.com>

