



The page contains presentations and tutorials Philip has developed and/or presented over the last decade or so. They are all sorted in descending of year. The most recent presentations/tutorials should be considered to be the most up to date versions of the relevant content. Please feel free to reuse these for your own training activities - and do let Philip know about any suggestions for improvements or enhancements to the most recent materials. All feedback is most welcome.

| Year                                 | Event  | Slideset   |
|--------------------------------------|--|--|
| 2025                                 | AIS 2025   | <a href="#">NOGs: The first 30 years</a>                                       |
|                                      | BKNIX 2025   | <a href="#">RouteViews Technical Update</a>                                    |
|                                      | ThaiNOG 7  | <a href="#">Internet Routing Table Update</a>                                  |
| 2024                                 | LINX 123   | <a href="#">IXPs and developments in networking: A 30-year personal review</a> |
|                                      | Peering Asia 6.0   | <a href="#">The RouteViews Project: Update</a>                                 |
|                                      | NANOG 92   | <a href="#">BGP Techniques for Network Operators</a>                           |
|                                      |  | <a href="#">The RouteViews Project: Update</a>                                 |
|                                      | mnNOG6   | <a href="#">The Internet Routing Table using RouteViews</a>                    |
|                                      | SGNOG 11   | <a href="#">The RouteViews Project: Update</a>                                 |
|                                      | btNOG 11   | <a href="#">The Internet Routing Table using RouteViews</a>                    |
|                                      | PhNOG 2024   | <a href="#">Philippine Internet Routing Table Update: Using RouteViews</a>     |
|                                      |  | <a href="#">Philippines Internet Journey</a>                                   |
|                                      | PacNOG33   | <a href="#">Pacific Internet Routing Table Update: Using RouteViews</a>        |
| ThaiNOG 6                            | <a href="#">Thailand Internet Routing Table Update: Using RouteViews</a> |  |
| IETF 119/ISOC<br>Policymaker Meeting | <a href="#">Overview of Routing &amp; Interconnection</a>                |  |
| 2023                                 | PacNOG 32  | <a href="#">Global Routing Table Update</a>                                    |
|                                      | Peering Asia 5.0   | <a href="#">RouteViews: BGP Global Monitoring Infrastructure and Services</a>  |
|                                      | SANOG 40   | <a href="#">Global Routing Table Update</a>                                    |
|                                      | PhNOG 2023   | <a href="#">RouteViews: Global BGP Collector for Operators and Research</a>    |
|                                      | NANOG 88   | <a href="#">BGP Techniques for Network Operators Tutorial</a>                  |
|                                      | SANOG 39   | <a href="#">Global Routing Table Update</a>                                    |

| Year                                      | Event                            | Slideset  |
|---|----------------------------------|---|
| 2022                                      | APNIC 54                         | <a href="#">Peering Toolbox</a>   |
|   | SANOG 38                         | <a href="#">Peering Toolbox</a>   |
|   |                                  | <a href="#">Global Routing Table Update</a>   |
|   | PhNOG 2022 Hybr1d                | <a href="#">Peering Toolbox</a>   |
|   | ThaiNOG 4                        | <a href="#">RPKI Operations</a>   |
|   | BKNIX Peering Forum 2022         | <a href="#">Peering Toolbox</a>   |
|   | TNC'22                           | <a href="#">Global R&amp;E Routing Report</a>   |
|   | ICTP                             | <a href="#">Network Operator Groups</a>   |
|   | AfNOG 2022                       | <a href="#">Keynote: Post Pandemic NOG Evolution</a>  |
| ThaiNOG 4                                 | <a href="#">RPKI Operations</a>  |   |
| 2021                                      | mnNOG 3                          | <a href="#">Keynote: Mongolia's Internet Journey: from bits to Gigabits</a>                 |
|   | btNOG 8                          | <a href="#">Keynote: The Events Defining Bhutan's Internet</a>                              |
|   | APNIC Routing Security SIG Forum | <a href="#">Deploying RPKI and ROV at Cenpac</a>  |
|   | SANOG 37                         | <a href="#">Internet Routing Table Analysis Update</a>                                      |
|   | LKNOG 5                          | <a href="#">BGP Best Practices</a>  |
|   | vPhNOG2.0                        | <a href="#">R&amp;E Routing Table Update</a>  |
|   | AfNOG 2021                       | <a href="#">Global BCP for Routing Policy &amp; Security</a>                                |
|   | SANOG 36                         | <a href="#">Internet Routing Table Analysis Update</a>                                      |
| 2020                                      | LINX Seminar                     | <a href="#">Rebuilding a Pacific ISP During the Pandemic</a>                                |
|   | PacNOG 26                        | <a href="#">Network Monitoring: The Foundation of Campus Security</a>                       |
|   | APRICOT 2020                     | <a href="#">APRICOT 2020 RPKI Deployathon Report</a>  |
|   | SANOG 35                         | <a href="#">Internet Routing Table Analysis Update</a>                                      |
| 2019                                      | PacNOG 25                        | <a href="#">RouteViews: The BGP Collector for Today's Network Operator &amp; Researcher</a> |
|   |                                  | <a href="#">Campus Network Design &amp; Operations Introduction</a>                         |
|   | LINX107                          | <a href="#">IXPs in Asia &amp; Pacific</a>  |
|   | mnNOG 1                          | <a href="#">RouteViews: The BGP Collector for Today's Network Operator &amp; Researcher</a> |
|   | SANOG 34                         | <a href="#">Internet Routing Table Analysis Update</a>                                      |
|   | PhNOG 2019 Manila                | <a href="#">RouteViews: The BGP Collector for Today's Network Operator &amp; Researcher</a> |
|   | SGNOG7                           | <a href="#">RouteViews: The BGP Collector for Today's Network Operator &amp; Researcher</a> |
|   | PacNOG 24                        | <a href="#">RouteViews: The BGP Collector for Today's Network Operator &amp; Researcher</a> |
|   |                                  | <a href="#">Campus Network Design &amp; Operations Introduction</a>                         |
|   | btNOG 6                          | <a href="#">RouteViews: The BGP Collector for Today's Network Operator &amp; Researcher</a> |
|   | ThaiNOG 2                        | <a href="#">RouteViews Evolves: Modernizing the BGP Collector for Today's Researcher</a>    |
|   | SANOG33                          | <a href="#">Internet Routing Table Analysis Update</a>                                      |
| <a href="#">Routing Security Tutorial</a> |                                  |   |

| Year  | Event                                | Slideset  |
|---|--------------------------------------|---|
| 2018  | PITA Telecoms Digital Strategy Forum | Modern Interconnects in the Internet Ecosystem                          |
|   | SANOG32                              | RouteViews: Enabling Research Through New and Innovative Infrastructure |
|   |                                      | Internet IPv4 Routing Table Analysis Update                             |
|   | btNOG5                               | Analysis of the Development of IXPs                                     |
|   | BKNIX Peering Forum                  | Analysis of the Development of IXPs                                     |
| 2017  | APNIC44                              | IPv6 Transition Strategies  |
|   | LINX98                               | IXPs around Asia  |
|   |                                      | LINX 1994-1997  |
|   | SANOG30                              | Internet IPv4 Routing Table Analysis Update                             |
|   |                                      | External BGP Route Propagation Behaviour without Policies               |
|   |                                      | IPv6 Deployment Planning  |
|   |                                      | IXP Design Best Practices   |
|   |                                      | RIPE Atlas Intro (on behalf of RIPE NCC)                                |
|   | BhutanNOG 4                          | Internet Futures in Bhutan  |
|   | SANOG29                              | Internet IPv4 Routing Table Analysis Update                             |
|   |                                      | IPv6 Transition Strategies  |
| IPv6 Deployment Planning                    |                                      |   |
| RIPE Atlas Intro (on behalf of RIPE NCC)    |                                      |   |
| 2016  | BTNOG 3                              | Internet IPv4 Routing Table Analysis Update                             |
|   | APNIC 42                             | IPv6 Transition Strategies  |
|   |                                      | IXP Design Best Practices   |
|   | APRICOT 2016                         | BGP Techniques for Network Operators                                    |
|   |                                      | BGP Multihoming Techniques  |
|   |                                      | Troubleshooting BGP   |
|   |                                      | Virtualisation for Network Testing & Staff Training                     |
|   | SANOG 27                             | BGP Techniques for Network Operators                                    |
|   |                                      | BGP Multihoming Techniques  |
|   |                                      | Virtualisation for Testing & Staff Training                             |
| Internet IPv4 Routing Table Analysis Update |                                      |   |
| 2015  | APRICOT 2015                         | IPv6 Transition Strategies  |
|   |                                      | IPv6 Deployment Planning  |
|   | MENOG 15                             | Internet IPv4 Routing Table Analysis Update                             |
|   | PacNOG 17                            | A Practical IPv6 Introduction   |
|   | SAFNOG 2                             | Migrating from OSPF to IS-IS  |
|   |                                      | Internet IPv4 Routing Table Analysis Update                             |
|   | SANOG 25                             | BGP Techniques for Internet Service Providers                           |
|   |                                      | BGP Multihoming Techniques  |
| IPv6 Transition Strategies                  |                                      |   |
| IPv6 Deployment Planning                    |                                      |   |
|   |                                      | Internet IPv4 Routing Table Analysis Update                             |

| Year   | Event   | Slideset  |
|--|---|---|
| 2014   | AfNOG 2014  | <a href="#">Routing Table Update</a>                            |
|  | APNIC 38  | <a href="#">IPv6 Transition Strategies</a>                      |
|  |   | <a href="#">IPv6 Deployment Planning</a>                        |
|  | BDNOG 1   | <a href="#">BGP Techniques for Internet Service Providers</a>   |
|  |   | <a href="#">BGP Multihoming Techniques</a>                      |
|  |   | <a href="#">Internet Development: Experiences &amp; Lessons</a> |
|  | BTNOG 1   | <a href="#">Internet IPv4 Routing Table Analysis Update</a>     |
|  |   | <a href="#">Internet in Bhutan</a>                              |
|  |   | <a href="#">DrukREN Technical Design</a>                        |
|  | MENOG 14  | <a href="#">Internet IPv4 Routing Table Analysis Update</a>     |
|  |   | <a href="#">IPv6 Transition Strategies</a>                      |
|  | PacNOG 16   | <a href="#">IPv6 Deployment Planning</a>                        |
| SAFNOG 1                                       | <a href="#">Peering and IXPs</a>                              |   |
| SANOG 23                                       | <a href="#">BGP Best Current Practices</a>                    |   |
|  | <a href="#">BGP Techniques for Internet Service Providers</a> |   |
|  | <a href="#">IPv6 Essentials</a>                               |   |
|  | <a href="#">IPv6 Transition Planning</a>                      |   |
| 2013   | AfNOG 2013  | <a href="#">IPv6 Deployment Planning</a>                        |
|  |   | <a href="#">NOG Update</a>                                      |
|  | APNIC 36  | <a href="#">BGP Techniques for Internet Service Providers</a>   |
|  |   | <a href="#">BGP Multihoming Techniques</a>                      |
|  |   | <a href="#">IPv6 Transition Strategies</a>                      |
|  |   | <a href="#">IPv6 Deployment Planning</a>                        |
|  | APRICOT 2013  | <a href="#">IPv6 Introduction</a>                               |
|  |   | <a href="#">IPv6 Transition Technologies</a>                    |
|  |   | <a href="#">IPv6 Deployment Planning</a>                        |
|  | CaribNOG 5  | <a href="#">BGP Multihoming Techniques</a>                      |
|  |   | <a href="#">Internet Routing Table Analysis Update</a>          |
|  | MENOG 13  | <a href="#">Peering, Transit and IXP Design</a>                 |
| <a href="#">Internet Exchange Point Design</a> |   |   |
| <a href="#">BGP Multihoming Techniques</a>     |   |   |
| MyNOG 3  | <a href="#">IPv6 Transition Strategies</a>                    |   |
|  | <a href="#">Migrating from OSPF to IS-IS</a>                  |   |
| SANOG 22                                       | <a href="#">Internet Routing Table Analysis Update</a>        |   |

| Year                                   | Event                                  | Slideset  |
|--|--|---|
| 2012                                   | APRICOT 2012                           | BGP Multihoming Techniques                              |
|  |  | Migrating from OSPF to IS-IS                            |
|  | AfNOG 2012                             | BGP Multihoming Techniques                              |
|  | APNIC 34                               | IPv6 Address Planning                                   |
|  |  | ISP & IXP Design  |
|  | MENOG 10                               | BGP Multihoming Techniques                              |
|  |  | Migrating from OSPF to IS-IS                            |
|  | MENOG 11                               | IPv6 Address Planning                                   |
|  |  | ISP & IXP Design  |
| Peering, Transit & IXPs                |  |   |
| MyNOG 2                                | BGP Multihoming Techniques             |   |
|  | IPv6 Address Planning                  |   |
|  | Internet Routing Table Analysis Update |   |
| NZNOG 2012                             | Migrating from OSPF to IS-IS           |   |
| PacNOG 12                              | Peering, Transit and IXP Design        |   |
| SANOG 20                               | Internet Routing Table Analysis Update |   |
| 2011                                   | APRICOT 2011                           | BGP Techniques for Internet Service Providers           |
|  |  | IPv6 Addressing & Routing Protocols                     |
|  | AfNOG 2011                             | Routing Table Update                                    |
|  |  | BGP Techniques for Internet Service Providers           |
|  |  | BGP Multihoming   |
|  |  | Troubleshooting BGP                                     |
|  | PacNOG 9                               | Towards an IPv6-only network                            |
| PacNOG 10                              | IPv6 Deployment Planning               |   |
| SANOG 17                               | Internet Routing Table Analysis Update |   |
| SANOG 18                               | Internet Routing Table Analysis Update |   |
| 2010                                   | AfNOG 2010                             | NOG Updates   |
|  | APAN 29                                | The Next Three Years                                    |
|  | APRICOT 2010                           | BGP Techniques for Internet Service Providers           |
|  | NANOG 50                               | BGP Techniques for Internet Service Providers           |
|  | NZNOG 2010                             | The Next Three Years: IPv6, IPv4 runout and 4-byte ASNs |
|  | PacNOG 7                               | Introduction to Cloud Computing                         |
|  | PacNOG 8                               | IPv6 and 4-byte ASN update                              |
|  | RIPE NCC Regional Meeting Moscow       | Network Operations Groups around the World              |
|  | SANOG 15                               | Internet Routing Table Analysis Update                  |
|  | SANOG 16                               | Network Operations Groups around the World              |
| Internet Routing Table Analysis Update |  |   |
|  |  | Troubleshooting BGP                                     |

| Year                                       | Event                               | Slideset  |
|--|-------------------------------------|---|
| 2009                                       | AfNOG 2009                          | <a href="#">Routing Table Update</a>  |
|  |                                     | <a href="#">NOG Updates</a>   |
|  | APRICOT 2009                        | <a href="#">BGP Techniques for Internet Service Providers</a>                 |
|  |                                     | <a href="#">BGP Multihoming Techniques</a>                                    |
|  | Australian Computer Society ACS2009 | <a href="#">The Next Three Years</a>  |
|  | MENOG 5                             | <a href="#">IPv6 Deployment Study</a>   |
|  |                                     | <a href="#">32-bit ASNs</a>   |
|  |                                     | <a href="#">The Next Three Years: IPv4 runout and the motivation for IPv6</a> |
|  |                                     | <a href="#">Internet Routing Table Analysis Update</a>                        |
|  |                                     | <a href="#">IPv6 Technical &amp; Service Considerations</a>                   |
|  | RIPE 58                             | <a href="#">2008-06: Use of Final /8 (v2)</a>                                 |
|  |                                     | <a href="#">2008-07:Ensuring efficient use of IPv4 resources (v2)</a>         |
|  | SANOG 13                            | <a href="#">BGP Aggregation &amp; The Deaggregation Report</a>                |
|  | SANOG 14                            | <a href="#">32-bit ASNs</a>   |
| <a href="#">BGP Multihoming Techniques</a> |                                     |   |
| <a href="#">Troubleshooting BGP</a>        |                                     |   |
| <a href="#">Network Operations Groups</a>  |                                     |   |

| Year          | Event   | Slideset   |
|---------------|---|--|
| 2008          | AfNOG 2008  | <a href="#">NOG Updates</a>                                    |
|               | AfriNIC 9   | <a href="#">How Cisco is preparing for IPv6</a>                |
|               | APRICOT 2008  | <a href="#">Troubleshooting BGP</a>                            |
|               |   | <a href="#">BGP Aggregation &amp; Deaggregation Report</a>     |
|               | Cisco AU ISP Roadshow   | <a href="#">Internet Status</a>                                |
|               | JANOG 22  | <a href="#">BGP Aggregation &amp; The Deaggregation Report</a> |
|               |   | <a href="#">Network Operations Groups</a>                      |
|               | MENOG 3   | <a href="#">BGP Techniques for Internet Service Providers</a>  |
|               |   | <a href="#">IPv6 Addressing &amp; Routing Protocols</a>        |
|               | MENOG 4   | <a href="#">IS-IS Tutorial</a>                                 |
|               |   | <a href="#">Network Operations Groups Update</a>               |
|               | NANOG 42  | <a href="#">Introduction to IPv6</a>                           |
|               |   | <a href="#">Troubleshooting BGP</a>                            |
|               | NANOG 44  | <a href="#">BGP Techniques for Internet Service Providers</a>  |
|               |   | <a href="#">IPv6 Addressing &amp; Routing Protocols</a>        |
|               | Netnod IPv6 Conference  | <a href="#">IPv6 @ NANOG, APRICOT and other places</a>         |
|               |   | <a href="#">IPv6 Address &amp; Routing Protocols</a>           |
|               | NZNOG 2008  | <a href="#">32-bit ASNs</a>                                    |
|               |   | <a href="#">BGP Techniques for Internet Service Providers</a>  |
|               |   | <a href="#">BGP Aggregation &amp; The Deaggregation Report</a> |
| OECD ITC 2008 | <a href="#">The State of the Internet Routing Infrastructure</a>                      |  |
| PacNOG 4      | <a href="#">BGP Aggregation &amp; The Deaggregation Report</a>                        |  |
|               | <a href="#">Network Operations Groups</a>   |  |
| PhNOG 3       | <a href="#">IPv6 @ NANOG, APRICOT and other places</a>                                |  |
| RIPE 56       | <a href="#">Network Operations Groups</a>   |  |
| RIPE 57       | <a href="#">Proposal 2008-06: Use of Final /8</a>                                     |  |
|               | <a href="#">Proposal 2008-07: Ensuring efficient use of historical IPv4 resources</a> |  |
| SANOG 11      | <a href="#">32-bit ASNs</a>   |  |
|               | <a href="#">BGP Techniques for Internet Service Providers</a>                         |  |
|               | <a href="#">Improving the Internet Infrastructure</a>                                 |  |
|               | <a href="#">BGP Aggregation &amp; The Deaggregation Report</a>                        |  |
| SANOG 12      | <a href="#">BGP Multihoming Techniques</a>  |  |
|               | <a href="#">Troubleshooting BGP</a>   |  |
|               | <a href="#">BGP Aggregation &amp; The Deaggregation Report</a>                        |  |

| Year     | Event  | Slideset   |
|----------|--|--|
| 2007     | AfNOG 2007   | <a href="#">Internet Routing &amp; Deaggregation Report</a>    |
|          |  | <a href="#">32-bit ASNs</a>                                    |
|          |  | <a href="#">Advanced Routing Workshop</a>                      |
|          |  | <a href="#">BGP Multihoming Techniques</a>                     |
|          | AfriNIC 7  | <a href="#">32-bit ASNs</a>                                    |
|          |  | <a href="#">IPv6 at Cisco</a>                                  |
|          | APRICOT 2007   | <a href="#">BGP Aggregation &amp; The Deaggregation Report</a> |
|          |  | <a href="#">BGP Techniques for Internet Service Providers</a>  |
|          | ARIN 20  | <a href="#">IPv6 Addressing &amp; Routing Protocols</a>        |
|          | MENOG 1  | <a href="#">BGP Aggregation &amp; The Deaggregation Report</a> |
|          |  | <a href="#">BGP Multihoming Techniques</a>                     |
|          | MENOG 2  | <a href="#">32-bit ASNs</a>                                    |
|          |  | <a href="#">BGP Aggregation &amp; The Deaggregation Report</a> |
|          |  | <a href="#">IPv6 Routing Protocols: What has changed?</a>      |
|          |  | <a href="#">IPv6 Addressing &amp; Routing Protocols</a>        |
|          | NANOG 39   | <a href="#">BGP Techniques for Internet Service Providers</a>  |
|          |  | <a href="#">BGP Deaggregation Report</a>                       |
|          | NANOG 40   | <a href="#">Troubleshooting BGP</a>                            |
|          |  | <a href="#">BGP Techniques for Internet Service Providers</a>  |
|          | NANOG 41   | <a href="#">BGP Multihoming Techniques</a>                     |
| PacNOG 3 | <a href="#">BGP Aggregation &amp; The Deaggregation Report</a> |  |
| PhNOG 1  | <a href="#">BGP Multihoming Techniques</a>                     |  |
| PhNOG 2  | <a href="#">Improving the Internet Infrastructure</a>          |  |
|          | <a href="#">BGP Route Aggregation Best Practices</a>           |  |
| SANOG 9  | <a href="#">BGP Techniques for Internet Service Providers</a>  |  |
|          | <a href="#">BGP Multihoming Techniques</a>                     |  |
|          | <a href="#">BGP Route Aggregation Best Practices</a>           |  |
|          | <a href="#">Internet Routing Table Analysis Update</a>         |  |
| SANOG 10 | <a href="#">BGP Aggregation &amp; The Deaggregation Report</a> |  |
|          | <a href="#">BGP Multihoming Techniques</a>                     |  |
| UKNOF 8  | <a href="#">BGP Best Practices</a>                             |  |
|          | <a href="#">BGP Aggregation &amp; The Deaggregation Report</a> |  |

| Year                              | Event                                      | Slideset                                      |
|-----------------------------------|--|---|
| 2006                              | AfNOG 2006                                 | BGP Multihoming Techniques                    |
|                                   | AfrINIC 5                                  | Aggregation Recommendations                   |
|                                   |  | IPv6: A Global Perspective                    |
|                                   |  | BGP Techniques for Internet Service Providers |
|                                   | APNIC 22                                   | BGP Tutorial                                  |
|                                   |  | BGP Multihoming Techniques                    |
|                                   |  | Troubleshooting BGP                           |
|                                   | APRICOT 2006                               | Deploying BGP                                 |
|                                   |  | BGP Multihoming Techniques                    |
|                                   |  | Troubleshooting BGP                           |
|                                   | NANOG 36                                   | Troubleshooting BGP                           |
|                                   | NANOG 37                                   | BGP Techniques for Internet Service Providers |
|                                   | NANOG 38                                   | BGP Multihoming Techniques                    |
|                                   | NZNOG 2006                                 | Deploying BGP                                 |
|                                   |  | BGP Multihoming Techniques                    |
| Troubleshooting BGP               |  |   |
| QUESTnet 2006                     | BGP Techniques for Providers               |   |
| RIPE 52                           | BGP Flap Damping: Deprecating RIPE-229     |   |
| RIPE 53                           | Route Aggregation Recommendations          |   |
| RIPE NCC Regional Meeting Bahrain | BGP Best Practices                         |   |
| SANOG 7                           | NGP Multihoming & Internet Exchange Points |   |
|                                   | Internet Routing Table Analysis Update     |   |
|                                   | Scaling IGPs in ISP Networks               |   |
| SANOG 8                           | BGP Multihoming Techniques                 |   |
|                                   | Internet Routing Table Analysis Update     |   |
|                                   |  |   |
| 2005                              | APNIC 20                                   | BGP Flap Damping: Where to now?               |
|                                   | APRICOT 2005                               | Deploying BGP                                 |
|                                   |  | Troubleshooting BGP                           |
|                                   | NANOG 33                                   | Troubleshooting BGP                           |
|                                   | NANOG 34                                   | BGP Techniques for Internet Service Providers |
|                                   | NANOG 35                                   | BGP Multihoming Techniques                    |
|                                   | RIPE 50                                    | Aggregation (?)                               |
|                                   |  | BGP Flap Damping                              |
|                                   | RIPE 51                                    | BGP Flap Damping: Where to now?               |
| SANOG 5                           | Internet Routing Table Analysis Update     |   |
|                                   | IPv6 Tutorial                              |   |
| SANOG 6                           | Aggregation (?)                            |   |

| Year   | Event  | Slideset  |
|--|--|---|
| 2004   | APRICOT 2004   | <a href="#">BGP Tutorial</a>                                  |
|  |  | <a href="#">BGP Multihoming</a>                               |
|  | NANOG 31   | <a href="#">BGP Techniques for Internet Service Providers</a> |
|  | NANOG 32   | <a href="#">BGP Multihoming Techniques</a>                    |
|  | NZNOG 2004   | <a href="#">Troubleshooting BGP</a>                           |
|  | RIPE NCC Regional Meeting Moscow                       | <a href="#">ripenncc-moscow-routing.pdf</a>                   |
|  | SANOG 3  | <a href="#">BGP enhancements for IPv6</a>                     |
|  |  | <a href="#">IPv6 Multicast</a>                                |
| <a href="#">BGP Multihoming Techniques</a>             |  |   |
| <a href="#">Internet Routing Table Analysis Update</a> |  |   |
| SANOG 4  | <a href="#">Internet Routing Table Analysis Update</a> |   |
| 2003   | AfNOG 2003   | <a href="#">Troubleshooting BGP</a>                           |
|  | APNIC 16   | <a href="#">BGP Multihoming</a>                               |
|  |  | <a href="#">Catching Worms at APNIC 16</a>                    |
|  | APRICOT 2003   | <a href="#">Routing Table Update</a>                          |
|  |  | <a href="#">BGP Tutorial</a>                                  |
|  |  | <a href="#">BGP Deployment Techniques</a>                     |
|  |  | <a href="#">BGP Multihoming</a>                               |
|  |  | <a href="#">BGP Troubleshooting</a>                           |
|  | NANOG 27   | <a href="#">BGP for Internet Service Providers</a>            |
|  | NANOG 28   | <a href="#">BGP Multihoming Techniques</a>                    |
|  | NANOG 29   | <a href="#">BGP Troubleshooting</a>                           |
|  | RIPE 44  | <a href="#">Internet Routing Table Analysis Update</a>        |
|  | RIPE 45  | <a href="#">Day in the Life of a BGP Update in Cisco IOS</a>  |
|  | RIPE NCC Regional Meeting Dubai                        | <a href="#">Introduction to Routing</a>                       |
|  | SANOG 1  | <a href="#">BGP for Internet Service Providers</a>            |
| <a href="#">BGP Multihoming Techniques</a>             |  |   |
| SANOG 2  | <a href="#">ISP Essentials</a>                         |   |
|  | <a href="#">BGP Multihoming Techniques</a>             |   |
| 2002   | AfNOG 2002   | <a href="#">BGP for Internet Service Providers</a>            |
|  | APNIC 14   | <a href="#">BGP Multihoming</a>                               |
|  | APRICOT 2002   | <a href="#">Routing Table Update</a>                          |
|  | IEPG @ IETF54  | <a href="#">Routing Table Update</a>                          |
|  | KIOW 2002  | <a href="#">BGP for Internet Service Providers</a>            |
|  | NANOG 25   | <a href="#">IXes in the AP Region</a>                         |
|  |  | <a href="#">BGP for Internet Service Providers</a>            |
|  | NANOG 26   | <a href="#">Troubleshooting BGP</a>                           |
|  | RIPE 41  | <a href="#">Internet Routing Table Analysis Update</a>        |
|  | RIPE 42  | <a href="#">Internet Routing Table Analysis Update</a>        |

| Year                             | Event  | Slideset   |
|----------------------------------|--|--|
| 2001                             | APNIC 12   | <a href="#">Internet Routing Analysis</a>              |
|                                  | APRICOT 2001   | <a href="#">Promoting Routability</a>                  |
|                                  |  | <a href="#">BGP Multihoming</a>                        |
|                                  | ARIN 7   | <a href="#">Internet Routing Table Analysis Update</a> |
|                                  | AUUG 2001  | <a href="#">Router Security</a>                        |
|                                  | NANOG 22   | <a href="#">BGP Tutorial</a>                           |
|                                  | NANOG 23   | <a href="#">BGP Multihoming Techniques</a>             |
|                                  | RIPE 38  | <a href="#">Internet Routing Table Analysis Update</a> |
| RIPE 39                          | <a href="#">Revisions to RIPE 210: Coordinated Route Flap Damping Parameters</a> |  |
| RIPE 40                          | <a href="#">BGP for Internet Service Providers</a>                               |  |
| 2000                             | IEPG@IETF49  | <a href="#">Internet Routing Table Analysis Update</a> |
|                                  | ISPCON 2K  | <a href="#">Promoting Routability</a>                  |
|                                  |  | <a href="#">BGP Multihoming</a>                        |
|                                  | RIPE 37  | <a href="#">Internet Routing Table Analysis Update</a> |
| <a href="#">BGP Flap Damping</a> |  |  |
| 1999                             | APRICOT 99   | <a href="#">Promoting Routability</a>                  |
| 1998                             | APRICOT 98   | <a href="#">Promoting Routability</a>                  |

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