



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 | PacNOG 26                            | <a href="#">Routing Security &amp; Internet Routing Growth in the Pacific</a>                                              |
|      | 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><br><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><br><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>                                        |
| 2021 | ThaiNOG 4                        | <a href="#">RPKI Operations</a>                                                             |
|      | 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                                     |
| 2017 | BKNIX Peering Forum                  | Analysis of the Development of IXPs                                     |
|      | 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> |
|      |              | <a href="#">Internet IPv4 Routing Table Analysis Update</a>     |
|      | BTNOG 1      | <a href="#">Internet in Bhutan</a>                              |
|      |              | <a href="#">DrukREN Technical Design</a>                        |
|      |              | <a href="#">Internet IPv4 Routing Table Analysis Update</a>     |
|      | MENOG 14     | <a href="#">IPv6 Transition Strategies</a>                      |
|      |              | <a href="#">IPv6 Deployment Planning</a>                        |
|      | PacNOG 16    | <a href="#">Peering and IXPs</a>                                |
|      | SAFNOG 1     | <a href="#">BGP Best Current Practices</a>                      |
| 2013 | SANOG 23     | <a href="#">BGP Techniques for Internet Service Providers</a>   |
|      |              | <a href="#">IPv6 Essentials</a>                                 |
|      |              | <a href="#">IPv6 Transition Planning</a>                        |
|      |              | <a href="#">IPv6 Deployment Planning</a>                        |
|      | AfNOG 2013   | <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>                        |
|      |              | <a href="#">BGP Multihoming Techniques</a>                      |
|      | CaribNOG 5   | <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<br>Migrating from OSPF to IS-IS    |
|      | AfNOG 2012                       | BGP Multihoming Techniques                                    |
|      | APNIC 34                         | IPv6 Address Planning<br>ISP & IXP Design                     |
|      | MENOG 10                         | BGP Multihoming Techniques<br>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                        |
| 2011 | NZNOG 2012                       | Migrating from OSPF to IS-IS                                  |
|      | PacNOG 12                        | Peering, Transit and IXP Design                               |
|      | SANOG 20                         | Internet Routing Table Analysis Update                        |
|      | 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                                  |
| 2010 | PacNOG 10                        | IPv6 Deployment Planning                                      |
|      | SANOG 17                         | Internet Routing Table Analysis Update                        |
|      | SANOG 18                         | Internet Routing Table Analysis Update                        |
|      | 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<br>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>        |
|      |              | <a href="#">BGP Techniques for Internet Service Providers</a>  |
|      | NANOG 39     | <a href="#">BGP Deaggregation Report</a>                       |
|      |              | <a href="#">Troubleshooting BGP</a>                            |
|      | NANOG 40     | <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                        | <a href="#">BGP Multihoming Techniques</a>                     |
|      | AfrINIC 5                         | <a href="#">Aggregation Recommendations</a>                    |
|      |                                   | <a href="#">IPv6: A Global Perspective</a>                     |
|      |                                   | <a href="#">BGP Techniques for Internet Service Providers</a>  |
|      | APNIC 22                          | <a href="#">BGP Tutorial</a>                                   |
|      |                                   | <a href="#">BGP Multihoming Techniques</a>                     |
|      |                                   | <a href="#">Troubleshooting BGP</a>                            |
|      | APRICOT 2006                      | <a href="#">Deploying BGP</a>                                  |
|      |                                   | <a href="#">BGP Multihoming Techniques</a>                     |
|      |                                   | <a href="#">Troubleshooting BGP</a>                            |
|      | NANOG 36                          | <a href="#">Troubleshooting BGP</a>                            |
|      | NANOG 37                          | <a href="#">BGP Techniques for Internet Service Providers</a>  |
|      | NANOG 38                          | <a href="#">BGP Multihoming Techniques</a>                     |
|      | NZNOG 2006                        | <a href="#">Deploying BGP</a>                                  |
|      |                                   | <a href="#">BGP Multihoming Techniques</a>                     |
|      |                                   | <a href="#">Troubleshooting BGP</a>                            |
|      | QUESTnet 2006                     | <a href="#">BGP Techniques for Providers</a>                   |
|      | RIPE 52                           | <a href="#">BGP Flap Damping: Deprecating RIPE-229</a>         |
|      | RIPE 53                           | <a href="#">Route Aggregation Recommendations</a>              |
| 2005 | RIPE NCC Regional Meeting Bahrain | <a href="#">BGP Best Practices</a>                             |
|      | SANOG 7                           | <a href="#">NGP Multihoming &amp; Internet Exchange Points</a> |
|      |                                   | <a href="#">Internet Routing Table Analysis Update</a>         |
|      | SANOG 8                           | <a href="#">Scaling IGP in ISP Networks</a>                    |
|      |                                   | <a href="#">BGP Multihoming Techniques</a>                     |
|      |                                   | <a href="#">Internet Routing Table Analysis Update</a>         |
|      | APNIC 20                          | <a href="#">BGP Flap Damping: Where to now?</a>                |
|      | APRICOT 2005                      | <a href="#">Deploying BGP</a>                                  |
|      |                                   | <a href="#">Troubleshooting BGP</a>                            |
|      | NANOG 33                          | <a href="#">Troubleshooting BGP</a>                            |
|      | NANOG 34                          | <a href="#">BGP Techniques for Internet Service Providers</a>  |
|      | NANOG 35                          | <a href="#">BGP Multihoming Techniques</a>                     |
|      | RIPE 50                           | <a href="#">Aggregation (?)</a>                                |
|      |                                   | <a href="#">BGP Flap Damping</a>                               |
|      | RIPE 51                           | <a href="#">BGP Flap Damping: Where to now?</a>                |
|      | SANOG 5                           | <a href="#">Internet Routing Table Analysis Update</a>         |
|      |                                   | <a href="#">IPv6 Tutorial</a>                                  |
|      | SANOG 6                           | <a href="#">Aggregation (?)</a>                                |

| 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="#">ripencc-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>                    |
| 2002 | SANOG 2                          | <a href="#">ISP Essentials</a>                                |
|      |                                  | <a href="#">BGP Multihoming Techniques</a>                    |
|      | 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> |
| 2000 | RIPE 40      | <a href="#">BGP for Internet Service Providers</a>                               |
|      | 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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