

Working Group 6 – Secure BGP Deployment

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Description: The Border Gateway Protocol (BGP) controls inter-domain routing on the globally routable Internet. BGP relies on trust among operators of gateway routers to ensure the integrity of the Internet routing infrastructure. Over the years, this trust has been compromised on a number of occasions, revealing fundamental weaknesses to this critical Internet utility.

This Working Group will recommend the framework for an industry agreement regarding the adoption of secure routing procedures and protocols based on existing work in industry and research.¹ The framework will include specific technical procedures and protocols. The framework will be proposed in a way suitable for opt-in by large Internet Service Providers (ISPs) in order to create incentives for a wider scale ISP deployment of secure BGP protocols and practices in a market-driven, cost-effective manner.

Duration:

1. Secure Routing Implementation Practices – March 22, 2012
2. Secure Routing Performance Metrics– September 12, 2012
3. Status of Secure Routing Performance Metrics– March 6, 2013

¹ See, for example, “Let the Market Drive Deployment: A Strategy for Transitioning to BGP Security,” Gill, Schapira, Goldberg.