



## International Journal on Recent Researches In Science, Engineering & Technology

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**Research Paper**

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ISSN (Print) : 2347-6729  
ISSN (Online) : 2348-3105

**Volume 1, Issue 11,  
Nov. 2013**

**DIIF IF :1.46  
SJIF IF: 1.329**

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### Border Gateway Protocol - A Survey.

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Abstract - Literature reported that Border Gateway Protocol ( B G P ) , the de facto standard for inter domain routing in the internet , is a crucial element of the internet routing architecture for exchanging information between Autonomous systems. One of the major concerns related to BGP is its lack of effective security measures , and as a result, the routing infrastructure of the internet is highly vulnerable to various forms of attack. This paper examines the internet's routing architecture and the design of BGP in particular, and surveys some of the approaches proposed till date on securing BGP , viz. Secure BGP (SBGP) , Pretty SECure BGP (pBGP) and Secure Origin BGP ( soBGP ) . To date no proposal has been accepted as offering a combination of adequate security functions, suitable performance overheads and deployable support infrastructure . This paper also illustrates deployment issues, comparisons and performance analysis of these protocols and proposes recommendations to improve security.