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# BGP SENTINEL

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## YOUR AS/BGP FROM AN OUTSIDE POINT OF VIEW

- PROTECT YOUR BUSINESS** These days, Internet presence is fundamental for a company that wants to give a total experience to its users. Protecting critical Internet assets against hostile attacks, errors, and unpredictable adverse events is crucial for your business. Monitoring your network from an outside location is the only way to guarantee the quality of your Internet presence. Looking at the past, it is not difficult to find examples of big security incidents involving the BGP. Some of these incidents can be classified as intentional attacks, others were simply misconfigurations. All of them however, disrupted traffic to websites or entire networks because of incorrect routing messages being propagated across the Internet through BGP.
- BGP** Border Gateway Protocol (BGP) is today the core routing protocol of the Internet and the biggest cooperative environment ever developed. The Internet is a free zone; a global network of multiple points connected to one another in different sub-networks called Autonomous Systems. These are responsible for managing the entirety of online web traffic. The constant flow of communication between AS lets you know the real status of the network that surrounds you, and so be aware of how the rest of the world identifies you: correct exchanges, anomalies, and problems. BGP performs inter-domain routing in TCP/IP networks. As an exterior gateway protocol (EGP), BGP performs routing between multiple Autonomous Systems or domains and exchanges routing and reachability information with other BGP systems. From the open and global structure of the Internet, may arise several threats and anomalies that could compromise your network—and your business.
- BGP SENTINEL FROM INRETE** Inrete BGP Sentinel can help you protect your AS/BGP by providing complete awareness about the BGP announcement on your IP address and AS number. BGP Sentinel offers real-time alarms 24/7 in case of improper announcement, various routing changes, or incidents to your selected networks and routes. You'll be able to solve problems, such as suspected hijackings and network instability, *before* they can affect performance, productivity, or availability. Main features:
- Internet comprehensive and detailed routing alarms.
  - displaying of AS and network active announcements.
  - complete announcement history.
  - specific announcement "licit" conditions definition.
- COMPLETE PROTECTION** As the number of critical applications on the Internet grows, so will the reliance on it to provide reliable and secure services. Because of the increased importance of the Internet, there is much more interest in increasing the security of its underlying infrastructure—including BGP. BGP Sentinel offers you a complete and impenetrable protection against Internet attack and even against this newfound trick. For complex networks and AS management through BGP protocol, in addition to a complete knowledge of AS path provided by BGP Sentinel, it will be useful to check and validate the in&out traceroutes on different hop of AS peering, generating appropriate alarms for a fast diagnosis: Trace Control from INRETE can do it for you. The knowledge of AS path, joined with a complete awareness of traceroute paths, gives you a complete and secure view of your network for immediate and incisive intervention.

