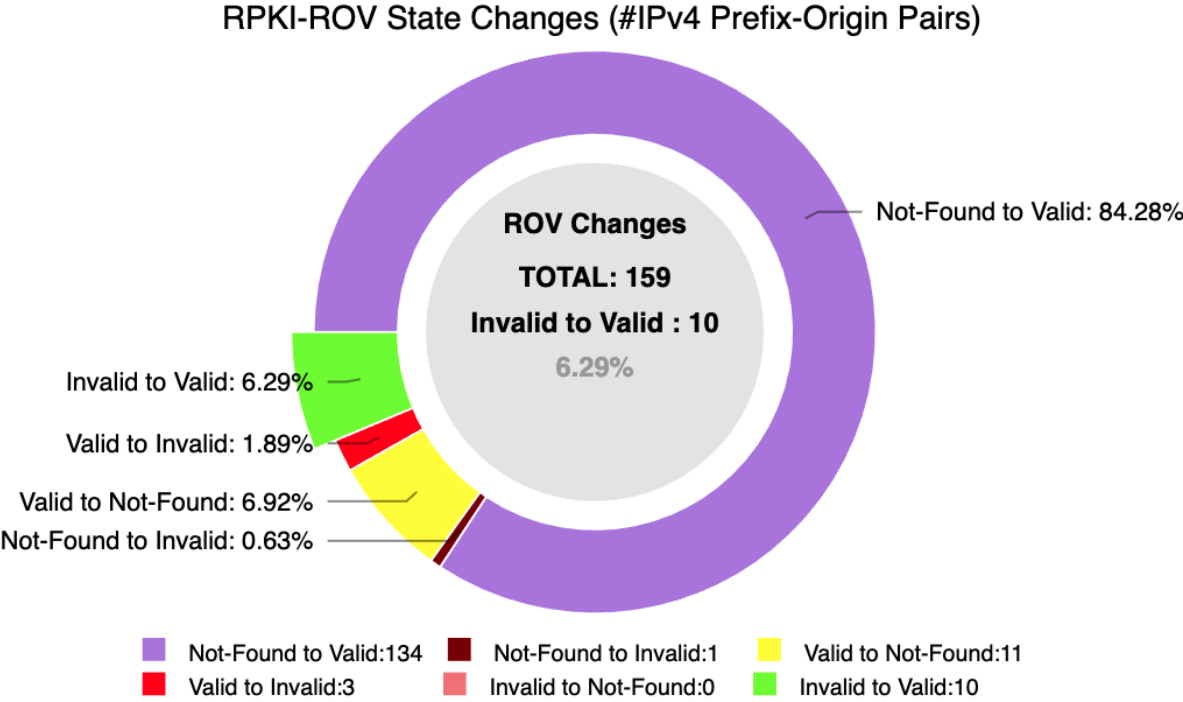


# Measurement tool for emerging Border Gateway Protocol security technologies

April 26 2021, by Doug Montgomery



Credit: National Institute of Standards and Technology

NIST has released a new version of its measurement tools aimed at improving trust and confidence in emerging technologies for improving the security and resilience of the Internet's global routing system.

The NIST RPKI Monitor is a test and measurement system designed to

monitor the dynamics of the global Resource Public Key Infrastructure (RPKI) and the impact of RPKI Route Origin Validation (ROV) on Internet routing. Its purpose is to provide measurement data and analyses to the research, standardization, and operations communities necessary to improve the trustworthiness of the underlying technologies.

The RPKI is a global trust infrastructure for certifying the ownership of Internet Protocol (IP) address block ownership and for declaring which Internet Service Providers (ISPs) are authorized to announce routes to those destinations. ISPs can use RPKI data to perform route origin validation (ROV) to filter unauthorized routing announcements. The combination of RPKI and ROV deployment will significantly improve the security and robustness of the Internet's Border Gateway Protocol (BGP) global routing system.

This new version of the NIST RPKI Monitor adds analysis features for understanding completeness, correctness and stability of the global RPKI-ROV infrastructure and provides tools to identify significant changes and anomalies in its operation.

For further details and to access the NIST RPKI Monitor see:

<https://www.nist.gov/services-resources/software/nist-rpki-deployment-monitor>

Provided by National Institute of Standards and Technology

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