CYREN

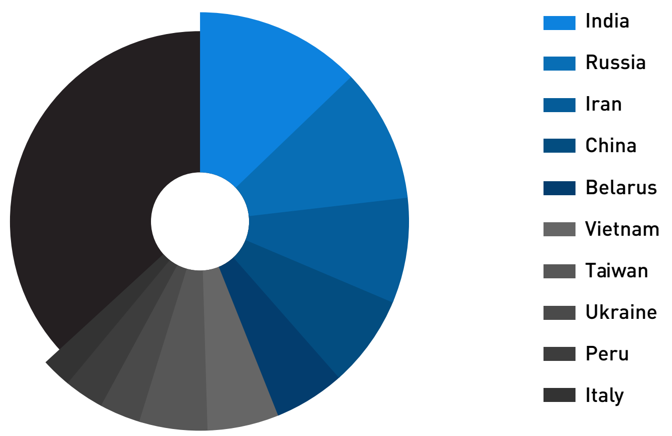
IP Reputation Intelligence

Threat Intelligence (Feed)

The continuing growth of botnets brings a new challenge for application and systems-to ensure that the host you are transacting with really is 'trustworthy' and not compromised by malware.

Cyren's IP Reputation Intelligence feed provides information on hosts discovered in the last 24 hours that are infected by malware and used as 'zombies' by botnets. Data describing bad IP addresses and types of malicious activities detected is provided by Cyren's GlobalView™ Security Cloud. This document describes the IP Reputation Intelligence service and its data format.

\\ ZOMBIE COUNTRIES



Overview

This intelligence feed delivers data from Cyren's GlobalView™ Security Cloud threat intelligence database, regarding identified, recently active zombie host computers. IP addresses can be compared to the known 'bad IP' records in the data and if there is a match, accompanying data describes the types and frequency of malicious activity known to have originated from that host. Cyren's partners use IP Reputation Intelligence to:

- Prevent fraudulent activities
- Decrease bot user registration
- Hinder Dynamic Denial of Service (DDoS) attacks
- Supplement Advanced Persistent Threats (APT) detection

CYREN CyberIntelligence

Why Use Cyren's IP Reputation Intelligence?

- **Unique Intelligence**—the IP Reputation Intelligence service is powered by GlobalView™ Cloud, Cyren's global threat intelligence platform. GlobalView™ examines 17+ billion transactions per day to build unique insight into current and emerging security threats.
- **The latest data**—the service lists only those infected hosts that have been active within the last 24 hours.
- **Easy to implement**—the service is designed to be up and running quickly, and is easily integrated with partner applications via SDK, or as a text data feed.
- **Partnership**—our business is built on empowering our partners with detection capabilities that lead the market, consume minimal resources, and are easy to integrate. All backed by a dedicated technical and commercial partner support model.

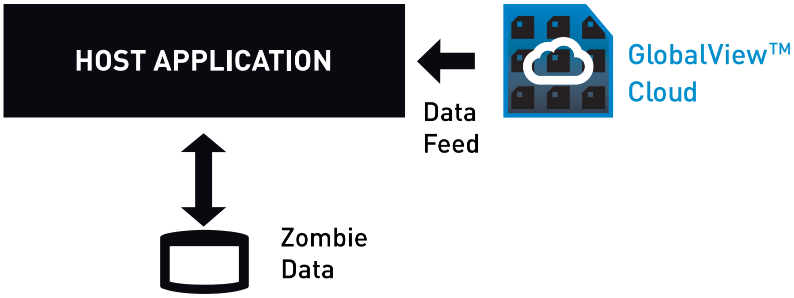
500K+
THREAT COLLECTION POINTS

600M+
USERS PROTECTED

17B+
DAILY TRANSACTIONS

130M+
THREATS BLOCKED

How It Works



Every 24 hours a full dataset of all active zombies including types of activity is delivered. Incremental updates are provided every 10 minutes.

IP Reputation Intelligence Data Format

Header	Parameter	Description
Action	+ / - / =	Add / Delete / Modify a recording
IP	IP address (IPv4 format)	IP address of zombie with leading zeroes as needed
First-Seen	YYYY-MM-DD-HH:mm:ss	First detection time (UTC)
Last-Seen	YYYY-MM-DD-HH:mm:ss	Most recent detection time (UTC)
Intensity	unsigned number (0.. 10)	Computed intensity as active zombie. Low means flags bitwise indicates the zombie is conducting malicious activitiesspam activity is low, high indicates a hi spam activity zombie host
Class	text	Bad IP category: C1 = Dynamic | C2 = Static
Risk	unsigned number (0.. 100)	Ratio between malicious and valid activity
Country	Country code (2 letters)	Country of Zombie orgin

About Cyren

Cyren is the global leader in information security solutions for protecting web, email, and mobile transactions. Our award-winning, patented technologies and global security platform increase the value and profitability of our partners' solutions, protecting over 600 million end users in over 180 countries.

Support

For additional information, or to assist you during your evaluation or integration, please contact your Cyren Technical Account Manager.

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