The Security Challenge

The Internet and the Domain Name System (DNS) are continually changing: domains are constantly created and existing ones are frequently modified. Cybercriminals change DNS records to hijack domains and redirect traffic to malicious websites. The redirected traffic bypasses their hosts leaving organizations unaware that traffic is being diverted. This leaves businesses and customers at great risk.

The Farsight Solution

Farsight Security’s DNS Changes channel provides real-time visibility into changes made to DNS. Whenever a new domain is created or a domain’s configuration changes, the DNS Changes channel highlights that change in real-time. This lets organizations easily monitor their DNS worldwide and alert on unauthorized changes due to operational accidents—or an attack.

The data is collected from the Farsight global DNS sensor array. The DNS Changes channel contains more than 200,000 observations per second to provide a holistic view of all DNS changes including:

- Hostnames - also known as fully qualified domain names (FQDNs)
- Name servers
- DNSSEC records

“Farsight's DNS Changes is the authoritative source of changes in Internet infrastructure.”

Chief Scientist
Security Company
The DNS Changes channel is provided on the Farsight Security Information Exchange (SIE) platform. It reports on global changes when existing domains purposely, inadvertently or maliciously:

- Move to a new IP address
- Use different name servers
- Use a new mail exchange
- Start using IPv6 or DNSSEC

### DNS Changes Channel

A **resource record** (RR) is a single DNS record.

A **resource record set** (RRset) consists of all the resource records of a given type for a given rname.

When the DNS Changes channel detects a never-before-seen RRset, it publishes that RRset to Channel 214 on SIE. It also annotates novel information about each RRset. These include individual RRs that have not been seen before and whether the RRset has changed from those previously seen for a Fully Qualified Domain Name (FQDN).

Data is presented as a time-stamped RRset, providing full context for observed changes as well as critical information for security investigators and operational change management.

### DNS Changes Identifies Domain Hijacking

Network and security teams can be alerted as soon as their domain is redirected to another IP address.

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**How to Subscribe**

For more information, contact sales@farsightsecurity.com or call +1-650-489-7919.

**About Farsight Security**

Farsight Security provides the world’s largest real-time actionable threat intelligence on changes to the Internet. Leveraging proprietary technology with more than 200,000 observations/second, Farsight provides security teams with the Internet’s view of an organization’s presence and how it is changing - whether purposely, inadvertently or maliciously. The world’s most security-conscious organizations use Farsight threat intelligence to protect their users and infrastructure.