

Why Global DDoS Threat Alliance?

The threat of distributed denial of service (DDoS) attacks has become a major concern for many businesses and organizations globally. DDoS attacks can cause significant damage by overwhelming networks or network resources with malicious traffic, disrupting connectivity and services for many users and, sometimes, entire networks.

To effectively combat this threat, it is important for all parts of the ecosystem – service and cloud providers, regulators, national security organizations and security professionals worldwide to work together and share information and best practices to fight DDoS.

This collaboration can take many forms – from industry standardization efforts and regulatory frameworks to individual organizations working together to identify and mitigate potential attacks and develop effective strategies for responding to them.

Given the increasingly complex and sophisticated nature of DDoS attacks, it is no longer feasible for businesses, service providers or governments to tackle them individually and independently. We see a growing need for collaboration between businesses, service providers, regulators, governments, and law enforcement agencies to share intelligence and better defend against DDoS attacks.

Nokia Deepfield Global DDoS Threat Alliance (GDTA) is a voluntary membership (opt-in) based organization for the participating Nokia Deepfield users, allowing participants to share information about DDoS threats with Nokia and, by doing so, improve the Nokia Deepfield Secure Genome™ data feed which provides additional internet-related security context. With improved Deepfield Secure Genome data, participants can better protect themselves against the current, new and emerging DDoS threats.





Nokia Deepfield Global DDoS Threat Alliance

Nokia Deepfield has a wide global presence in networks operated by communications service providers, webscale companies and large digital enterprises around the globe.

The global set of our deployments puts Nokia in a unique position to positively impact the global security landscape by gathering, analyzing and sharing information about DDoS security-related events.

Global DDoS Threat Alliance (GDTA) is an opt-in data-sharing program designed to improve the global security landscape through cooperation and data sharing. The program is open to all Nokia Deepfield customers.

GDTA collects, correlates, and analyzes data from individual Deepfield deployments about relevant security-related events.

GDTA is used to understand better how Distributed Denial of Service (DDoS) events are occurring and evolving. The knowledge obtained from GDTA enriches the Nokia Deepfield library of global DDoS events and Deepfield Secure Genome™, resulting in a better security context shared across all Nokia Deepfield deployments.

By sharing DDoS security-related information from your network with GDTA and using shared information from other members, you are helping secure your network and the larger internet community, reducing the global DDoS threat potential and improving your DDoS protection capabilities.

Nokia Deepfield Emergency Response Team (ERT)

Information collected via GDTA is shared with the Nokia Deepfield ERT. Our team of network and security experts analyzes ongoing and emerging DDoS trends, events, and threats and updates and maintains the Deepfield Secure Genome data feed.

As a result, Deepfield Secure Genome, a continuously updated data feed that provides ongoing input to all Nokia Deepfield Defender deployments, allows for much improved DDoS detection and mitigation.





Information shared with GDTA

GDTA collects only the essential data about DDoS threats and attacks recorded in your network(s), such as malicious source IP addresses originating the attacks and details relating to the attack such as IP ports, IP protocols, TCP Flags, time-of-day, TTL, total byte and packet volumes.

Data from individual members' networks are anonymized to remove sensitive and private information.

Privacy and anonymity

Information gathering and processing are done to maximize the privacy of participating parties and members' customers. Nokia and GDTA members will comply with the jurisdiction-specific requirements applicable to the processing of Customer Personal Data (e.g., General Data Protection Regulation 2016/679, in the case of the EU, and others, as they apply to other jurisdictions).

Your security-related network data is shared with GDTA and the Nokia Deepfield ERT directly from your Nokia Deepfield deployment through a TLS-encrypted call to the Deepfield Secure Genome API, operated and maintained by the Nokia Deepfield ERT.



What does Nokia do with the GDTA data?

Nokia Deepfield uses data obtained via GDTA to improve further Deepfield Cloud Genome and Deepfield Secure Genome data feeds. The Nokia Deepfield ERT analyzes the shared data to find new and emerging DDoS vectors and improve its extensive library of existing DDoS vectors, threats and attacks.

This data is used to track and identify various botnets sourcing DDoS traffic around the globe and to validate, update, and maintain the Deepfield Secure Genome data feed.



GDTA members benefit from shared security insights from their and other members' networks. This information is captured by Deepfield Secure Genome, which facilitates better and more accurate DDoS detection capabilities.

The GDTA membership provides a way to give back to the internet community by sharing information about global DDoS trends and threats.

Privacy Notice

Data shared with Nokia Deepfield Global DDoS Threat Alliance will be subject to Nokia's GDTA privacy policy: https://www.nokia.com/networks/ip-networks/deepfield/defender/gdta/privacy.

For more information, please visit our page: Nokia Deepfield Global DDoS Threat Alliance.

For more details and information on how to join Nokia Deepfield GDTA, please contact I_deepfield_gdta@nokia.com.

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At Nokia, we create technology that helps the world act together.

As a B2B technology innovation leader, we are pioneering networks that sense, think and act by leveraging our work across mobile, fixed and cloud networks.

In addition, we create value with intellectual property and long-term research, led by the award-winning Nokia Bell Labs.

Service providers, enterprises and partners worldwide trust Nokia to deliver secure, reliable and sustainable networks today – and work with us to create the digital services and applications of the future.

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