

# Device Check: a discreet, formidable defense against bots

DataDome's Device Check safeguards your online business from malicious bots without disrupting UX.

# Introducing Device Check: DataDome's invisible challenge for bot defense

Traditional CAPTCHAs, a security staple, face evasion by bots, necessitating new security measures.

**Device Check**, DataDome's invisible CAPTCHA challenge, is designed to block bad bots targeting websites and mobile apps without impacting end users.

How does Device Check work? In simple terms, Device Check acts like a CAPTCHA, **without** prompting any visible or interactive challenge to the end user. It is a verification process that runs on the end user's device, without the need for user interaction. It is loaded by web browsers and mobile apps while preserving end users' privacy.

Device Check detects automation frameworks, spoofed environments, and/or programmatic access to the interfaces. This new response method is initiated under two conditions: 1) when there is a detection of bot activity with a low level of confidence, and 2) when employing a CAPTCHA response would not be suitable due to the potential for generating false positives.

Its implementation can be finely tuned, ranging from a measured, selective usage to a more assertive status as a mandatory verification step—all orchestrated to guarantee the authenticity of every user's device.

Device Check allows genuine human users to gain access swiftly and seamlessly without any additional steps. For automated bots, it promptly springs into action, blocking access or imposing supplementary challenges to thwart potential threats.

# The benefits of Device Check

## ✓ Improved UX

Reduce reliance on CAPTCHA with a 100% invisible, seamless user experience for mobile & web apps.

## ✓ No setup required

Start using Device Check immediately without any prior configuration or installation steps.

## ✓ Remain compliant

Ensure privacy compliance with a tool that exceeds CCPA & GDPR compliance standards. Full-end user privacy is preserved.

## ✓ Integrate with your existing tech stack

Easily integrate across a wide range of applications and devices, including web apps & SDKs.



The majority of bot management solutions use a CAPTCHA as one of their mitigation options. The use of CAPTCHA is complex and nuanced offering both benefits and drawbacks. As such, some vendors are introducing invisible proof-of-work challenges to complement CAPTCHA.

- 2023 Gartner® Innovation Insight: Bot Management for the IAM Leader Report

Gartner, Innovation Insight: Bot Management for the IAM Leader, Akif Khan, Dan Ayoub, Jeremy D'Hoinne, 4 August 2023  
GARTNER is a registered trademark and service mark of Gartner, Inc. and/or its affiliates in the U.S. and internationally and is used herein with permission. All rights reserved.

# Seamless security: the power of invisible challenges

Device Check is setting a new standard by revolutionizing bot detection and user experience.

## ✓ Unparalleled accuracy

Device Check excels at identifying even the most advanced and evasive bots right from their initial requests. Unlike traditional security measures that only catch bots after repeated suspicious behavior, Device Check's advanced algorithms are finely tuned to spot telltale signs of automation and malicious intent. It looks out for things like automation frameworks, spoofed environments, or programmatic access to interfaces from the very start. This proactive approach ensures that bots are mitigated before they can cause harm or disruption.

## ✓ Enhanced user experience

Device Check is engineered to reduce friction for end users in two critical ways. First, it lowers the false positive rate by 80%, meaning that legitimate users are less likely to be incorrectly flagged as bots, sparing them from unnecessary challenges and verifications. Second, it minimizes the need for CAPTCHAs, ensuring users can seamlessly access content without frequent interruptions or frustrating puzzles. This results in a smoother, more user-friendly, hassle-free online experience for genuine visitors.

## ✓ Context security

Device Check's flexibility allows for a dynamic response tailored to the level of sensitivity in different contexts. In situations where heightened security is paramount, Device Check can be configured to employ a more aggressive response to potential threats. This adaptability ensures that organizations can safeguard their platforms per their specific security requirements without overburdening users with unnecessary security measures.

## ✓ Preservation of user privacy

Device Check offers robust security without compromising user privacy and data protection. The verification process is designed so that no personal information is collected or stored during the assessment. This means that users can engage with websites and apps while preserving their privacy.

## ✓ Flexibility

DataDome stands out from competitors by offering a unique advantage: the flexibility to use both visible and invisible challenges. While other solutions may focus on either a visible or invisible challenge, DataDome empowers customers with the freedom to choose the approach that best suits their needs.

By seamlessly blending robust security measures with a frictionless user experience, Device Check marks a significant step forward in safeguarding digital ecosystems. Explore the possibilities and enhanced protection that Device Check unlocks for your online platforms. [Request a demo.](#)