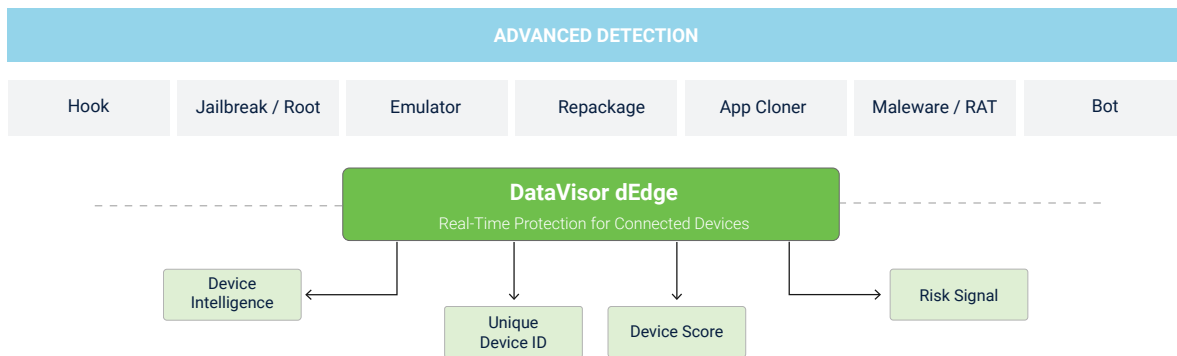# dEdge

About dEdge

> dEdge delivers real-time protection for mobile and web applications by gathering extensive device information, identifying device manipulations, and delivering accurate device IDs, risk signals, and scores.
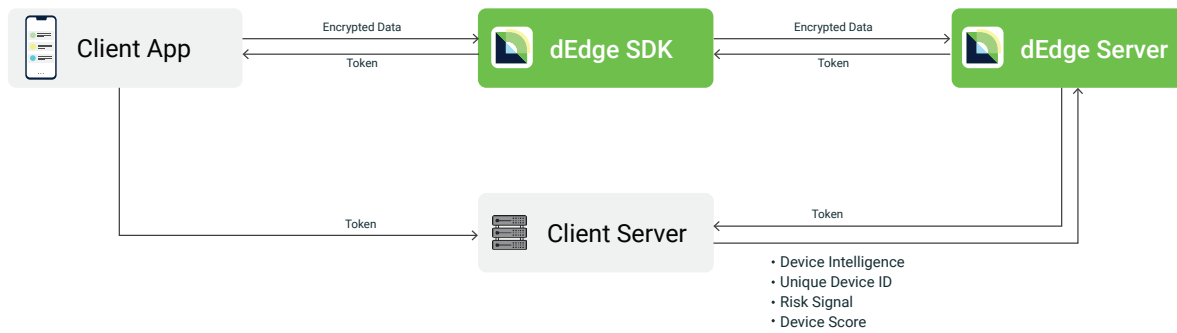
Mobile and web applications are uniquely susceptible to fraud, and fraudsters are using advanced tactics such as root, hook, and emulators to change device identifications and launch large-scale attacks. Existing solutions—unable to effectively detect these sophisticated manipulations—continue to allow highly damaging attacks to slip through.

DataVisor's dEdge is expressly built to protect against attacks from hijacked devices—no matter what techniques fraudsters may use to manipulate them—and deliver accurate signals, device IDs, and scores. When used in combination with other DataVisor machine learning solutions, dEdge empowers clients to uncover known and unknown threats and attacks early and to take action with confidence.

ADVANCED DETECTION						
Hook	Jailbreak / Root	Emulator	Repackage	App Cloner	Maleware / RAT	Bot

DataVisor dEdge
Real-Time Protection for Connected Devices

Device Intelligence · Unique Device ID · Device Score · Risk Signal

Real-Time Device Intelligence Collection
Collect accurate and extensive intelligence from mobile devices (Android and iOS), desktops, and IoT devices. Gather hundreds of data fields in real time: device info, operating system, network, time stamp, languages, user agents, and more.

Advanced Device Manipulation Detection
Identify sophisticated attack techniques such as root, hook, emulator, repackage, malware, and more. Leverage DataVisor's breakthrough technologies to make accurate distinctions between trusted devices and those evidencing prognostic signs of manipulation.

Unique Device ID & Accurate Device Score
Consistently generate unique device identifications, no matter how—and in what ways—fraudsters might uninstall apps or reset devices. Deliver risk signals indicating whether devices are manipulated, and generate accurate scores for all devices.

Real-Time Event Tracking
Get actionable insights from tracking critical events in real time and leverage the intelligence to make informed decisions. Enhance customer experience by delivering fast responses and ensuring high performance even when network connections are weak. Support both on-device and cloud computing for any business needs.

Edge Computing
Deliver exceptional app performance, protect customer privacy, and reduce costs by using edge computing. Eliminate latency and improve speed by processing data locally and reducing traffic loads at scale. Expand computing capability through edge devices, without the need to heavily invest in infrastructure.

Data Security at Every Touchpoint
Secure data with advanced white-box encryption and digital signature capabilities. Protect data from being hijacked or tampered with, and stop fraudsters from analyzing data offline after they transfer the data. Use a unique encryption key per device to provide advanced security even when some devices are found to be compromised.

HOW dEDGE WORKS

Client App
→ Encrypted Data → dEdge SDK
← Token ←

dEdge SDK
→ Encrypted Data → dEdge Server
← Token ←

Client App
→ Token → Client Server

Client Server
→ Token → dEdge Server

• Device Intelligence
• Unique Device ID
• Risk Signal
• Device Score

KEY BUSINESS BENEFITS

Enhanced Customer Experiences

Deliver frictionless end user experiences by enabling fast responses for any events in real time. Reduce latency and increase speed by processing data locally and scaling down traffic loads.

Scalability and Cost Savings

Reduce cloud computing costs and intensive up-front infrastructure costs by leveraging edge computing. Expand protection and achieve enterprise-scale detection with high performance.
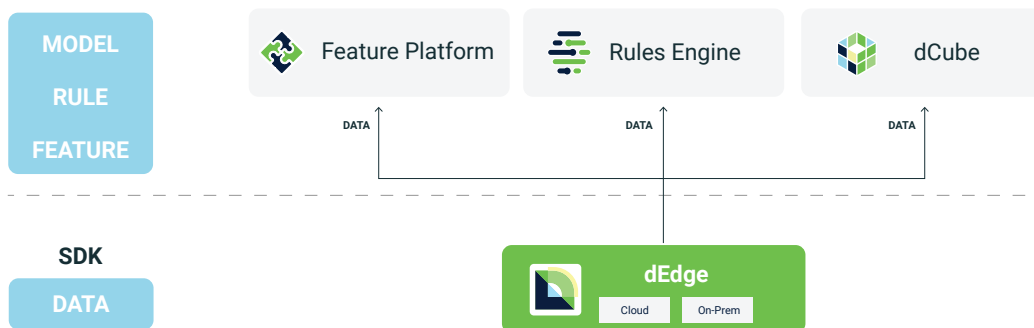
Rapid Implementation & Integration

Collect new data fields immediately, without having to launch a new SDK or update apps. Integrate with DataVisor's machine learning solutions and capture unknown fraud without the need for labels.

INTEGRATION

Provides seamless integration with DataVisor's product suite. Supports both cloud and on-premise environments.

MODEL
RULE
FEATURE

Feature Platform   Rules Engine   dCube

DATA   DATA   DATA

SDK
DATA

dEdge
Cloud   On-Prem