

# Multi-National Online Gaming Company Protects Billions in MMORPG Game Revenues with Arxan Application Protection

A multi-national leader in online gaming develops new MMORPG games, designed to support thousands of gamers' simultaneous play in highly intricate online worlds. The company's pre-release initiatives have secured a tremendous fan base for its newest massively multiplayer online role-playing game (MMORPG) release. Due to the huge popularity the game is also expected to be the target of professional pirates, as well as casual and professional cheaters. The occurrence of cheating, malware and piracy attacks would severely impact the publisher's ROI, gamer loyalty, and corporate brand.



**Challenge:** The company's challenge is to protect the game client server communication, running on end-user PCs, from tampering and cheating attacks. The goal is to protect the integrity of game play by ensuring that all players share the same experience and that no individuals can manipulate the game to gain an unfair advantage or unauthorized use.

The gaming industry has traditionally been a ripe market for hackers and cheaters launching a wide array of malicious attacks such as:

- **Injecting Functions** – Running of custom code
- **Network Traffic Manipulation** – Manipulating the packet stream
- **Client NPC Interactions** – Abusing bugs, allowing interaction with key NPCs in situations customer wouldn't normally be able to
- **Speed Hacking** – Moving faster than normal
- **Radar** – Top down radar display
- **Movement Hacks** – Teleporting, flying
- **Collision Ignoring** – Bypassing walls
- **Object Replacement** – Replacing one object for another

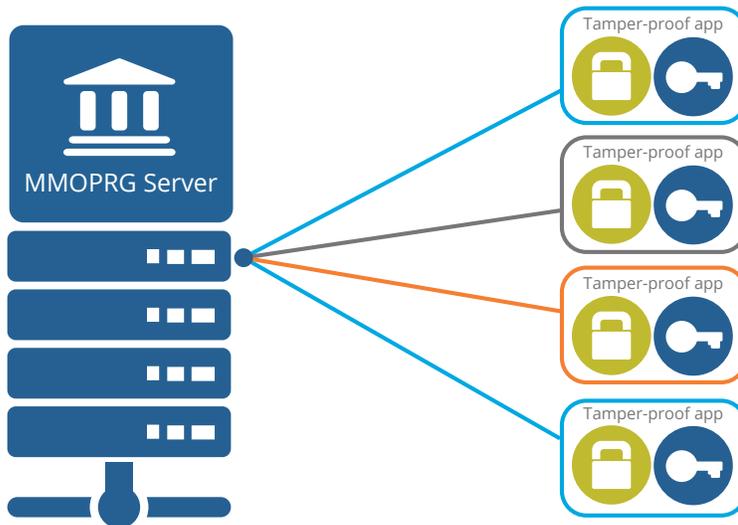
These examples directly affect the ROI of the large-scale investment that game studios and publishers make to bring a MMORPG to market.

Arxan Application Protection on the MMORPG game client is totally transparent, providing effective security with no impact on customer experience.



**Solution:** The gaming industry has a previous history of poor and heavy-handed game security, making players averse to the notion of security. Thus, the security solution needed to be both effective and transparent with no visible impact on the game play – although effectiveness and transparency are typically conflicting goals for security solutions. Ideally, players would never become aware that security functions are embedded into the game.

Arxan's Application Protection solution met the company's stringent requirements on both security and customer experience. The company is using Arxan Application Protection for Windows to protect both 32-bit and 64-bit versions of their MMORPG client. The company is using both static and dynamic protection measures built into the Arxan Application Protection arsenal to protect code, keys and data against discovery, reverse engineering and tampering.



Throughout set up and deployment, Arxan was fully accessible and walked the company through issues, and advised them on security strategies, on a timely basis. Arxan's technical support team remains continuously accessible to the company should any ongoing issues arise.



**Results:** The engineers at the gaming company could leverage Arxan's Code Protection's diverse yet low-impact security tools to achieve their target level of protection without adversely impacting run time performance or customer experience. The company saw a successful release of their MMORPG game, both in terms of security and in terms of customer acceptance.

## About Arxan Technologies

Arxan is the trusted global leader of Application Attack Prevention and Self-Protection products for Internet of Things (IoT), Mobile, Desktop, and other applications. We help protect our customers against financial loss, brand damage, fraud, IP theft, stolen credentials, fraudulent transactions, unauthorized access, non-compliance with regulatory and industry standards, and more. Our unique patented guarding technology **1. Defends** applications against attacks, **2. Detects** at run-time when an attack is being attempted, and **3. Deters** attacks to stop hackers, send alerts, or repair making customers' applications truly resilient. We are currently protecting applications running on more than 500 million devices across a range of industries, including: financial services, automotive (connected automobiles), healthcare (connected medical devices), digital media, gaming, high tech/independent software vendors (ISVs), and others. The company's headquarters and engineering operations are based in the United States with global offices in EMEA and APAC. **Learn more at [www.arxan.com](http://www.arxan.com).**