



FOR IMMEDIATE RELEASE

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# IoT Has a Superhero

## *Signalling Security Has Come to IoT*

**Barcelona, 26 February 2020** Despite the cancellation of MWC, ZARIOT, a new IoT connectivity provider is set to revolutionise security. In this era of connected chaos, ZARIOT aims to restore order. With the proliferation of IoT devices, security concerns are increasing exponentially. We see headlines daily about security breaches costing enterprises and consumers millions as well as divulging sensitive data to bad actors.

ZARIOT is the world's first global SIM with signalling security. While other companies offer connectivity over IP protocols, ZARIOT is the first of its kind to also provide security over the inherently vulnerable SS7, Diameter, and GTP signalling protocols: Protection "from signalling to cloud".

ZARIOT is not simply a connectivity provider. Born of a myth and spawned of a legend, ZARIOT is a hero for our time. The ZARIOT is a futuristic superhero shrouded in mystery behind his high-tech helmet and robust protective suit. He is here to connect and protect us all from the dangers of IoT evil-doers, and dangerous devices.

"The rate at which SIM cards are being recklessly thrown into every device imaginable for permanent connectivity is growing, with no thought as to how we control, provision, upgrade and secure their future," said Dawood Ghalaieny, CEO of ZARIOT. "The disregard for important features such as security is perceived as addressed. It's not."

While encryption and other methods increase security, they only go as far as the IP layer - signalling security has been roundly ignored in the IoT sphere. Smart home devices that rely solely on WiFi connectivity may be protected with proper firmware and secured IP connections, but this does little for smart cars, wearables, medical devices, and remote sensors to name a few. These devices use SIM cards and rely on signalling protocols to upload and download data, leaving them vulnerable to denial of service, interception, location tracking, and other attacks over mobile network infrastructure.

This problem is exacerbated by the fact that IoT increasingly demands greater connectivity, exposing devices to more and more networks - with varying guarantees of security. For the networks themselves, IoT devices can be an enemy from within as an increasing number of misbehaving devices cause signalling storms and other disruptions to network traffic. ZARIOT provides a critical layer of security that can block interception, denial of service, and profile reconfiguration attacks by preventing access to information contained in the network.

Cellusys founded ZARIOT to bring its expertise in signalling security directly to enterprise, with the goal of connecting and protecting all IoT devices. Ghalaieny explains, "Success in deploying IoT is having a partner that understands the IoT ecosystem as a core competence and its inherently complex security and control. Connectivity requires a partnership of five, ten, or even fifteen years over the device lifecycle."



ZARIOT offers global coverage, with coverage in over 190 countries and access to over 450 mobile networks with the aim of making connectivity partnership a crucial part of enterprise success stories.

Cellusys is an industry leader in signalling security, with over 15 years experience helping mobile operators and hubs secure their networks and subscribers from attacks over signalling protocols with sophisticated and responsive firewalls. Cellusys was first to market with the Signalling firewall, as well as the Unified Signalling Firewall for SS7, Diameter, GTP and SIP. Cellusys has won numerous innovation awards and is ranked as a Tier 1 vendor. In addition to security products, Cellusys offers other solutions within the IoT ecosystem with solutions for roaming, fraud and analytics.

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If you would like more information about this topic, please call Bonnie Kimmel at +33 7 69 35 56 67 or email [Bonnie.Kimmel@ZARIOT.com](mailto:Bonnie.Kimmel@ZARIOT.com)

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#### Pictures:



ZARIOT arrived Monday to the Fira in Barcelona for Mobile World Congress only to find it has been cancelled due to the risk of spreading the COVID-19 virus.



With Mobile World Congress cancelled, ZARIOT is stopping for a break in the Pyrenees en route from Barcelona to Andorra. ZARIOT's car contains multiple SIM cards for access to entertainment, information apps, real time traffic information (RTTI) for efficient journey planning, and cutting-edge connected safety services.



ZARIOT is on the ski slopes inspecting connected ski lifts and gondolas whose mission-critical control ensures the safety of skiers. Remote sensors measuring snow depth in skiing areas and on precarious avalanche-prone slopes must also be secured.