

# SPACE ARMOUR

Zero Trust Cybersecurity for Space Systems and Satellite Networks  
powered by SDP architecture and Blockchain technology



Military-grade security for space infra  
and communication networks



Locked-down and secured access to  
critical control systems



Immutable and tamper-proof logging  
of all access and connectivity

**Space infrastructure** has become an integral part of everyday life, with individuals, businesses, and governments relying overwhelmingly on it



GPS allows us to easily find our way around the planet as well as track all forms of assets



Communications satellites enable us to seamlessly browse the internet in-flight or at sea



Space tech now enables connectivity to the most remote locations on earth and in space



Satellites and other space infrastructure are an integral part of national security / defence objectives

*Space technology is playing a pivotal role in enhancing our society and safeguarding the planet*

# The proliferation of Cloud and IoT that has made the space sector more interconnected, also exposes space & ground infrastructure to an expanded range of cyber threats

## Cybersecurity challenges in the connected space ecosystem



### Expanding Attack Surfaces:

Every IoT device, from personal smartphones to connected vehicles, is a gateway to space assets.



### Fragmented Security Protocols:

Providers often operate on different security standards and protocols.



### Data Interception Risks:

As data travels from satellites to cloud servers and end-user devices, the risks of interception increase



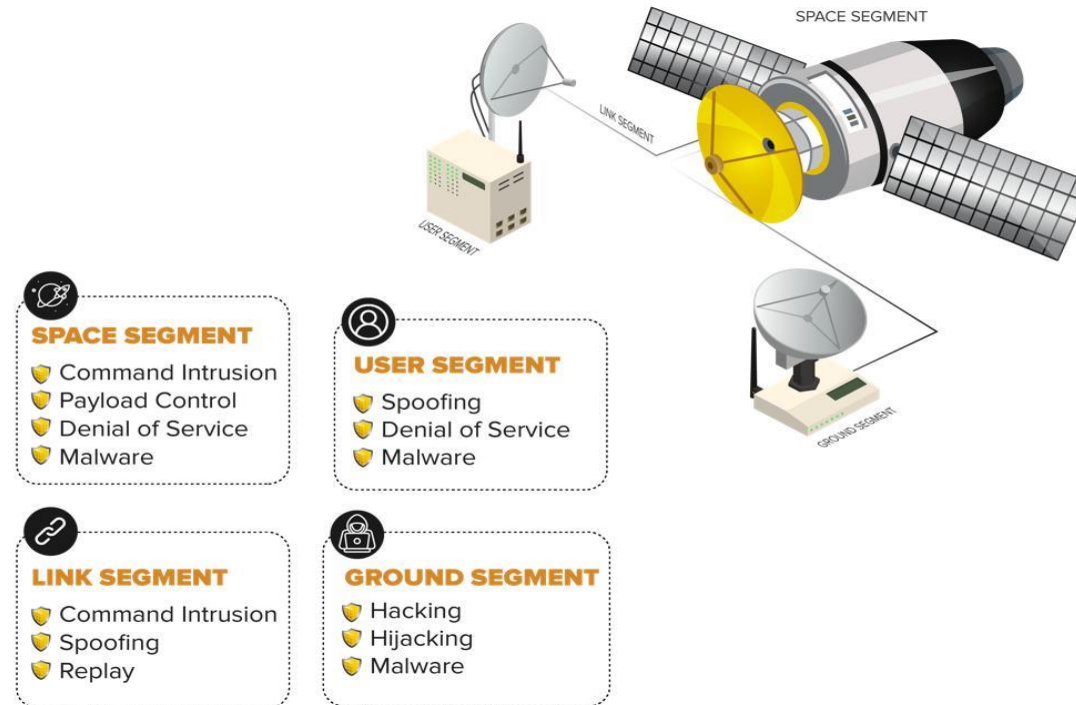
### Supply Chain Intricacies:

Hardware and software for space systems, often produced globally, can harbor vulnerabilities.

*A successful cyberattack against a satellite network will have significant consequences not just for space-based assets themselves but also for ground-based critical services*

# With the growing interconnectedness, traditional perimeter-based security models are increasingly falling short in protecting the distributed and complex space ecosystem

*Multi-segment, multi-operator networks*

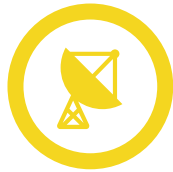


*Each segment may be managed by a distinct operator and follows its own security protocol. This results in a lack of inherent end-to-end security, creating potential vulnerabilities at points of transition between segments.*



# Block Armour has extended its award-winning security platform to deliver a Zero Trust Cybersecurity Mesh for Space Systems and Satellite networks. We call it **Space Armour!**

*The platform delivers three critical functions*



## Software Defined Perimeter

Secures all assets and ensures every request to the system is rigorously authenticated w/ Digital IDs, and permissions closely monitored



## Micro-segmented Secure Networks

Enables end-to-end ultra-secure communication over commercial satellite networks with AES 256-bit encryption at source

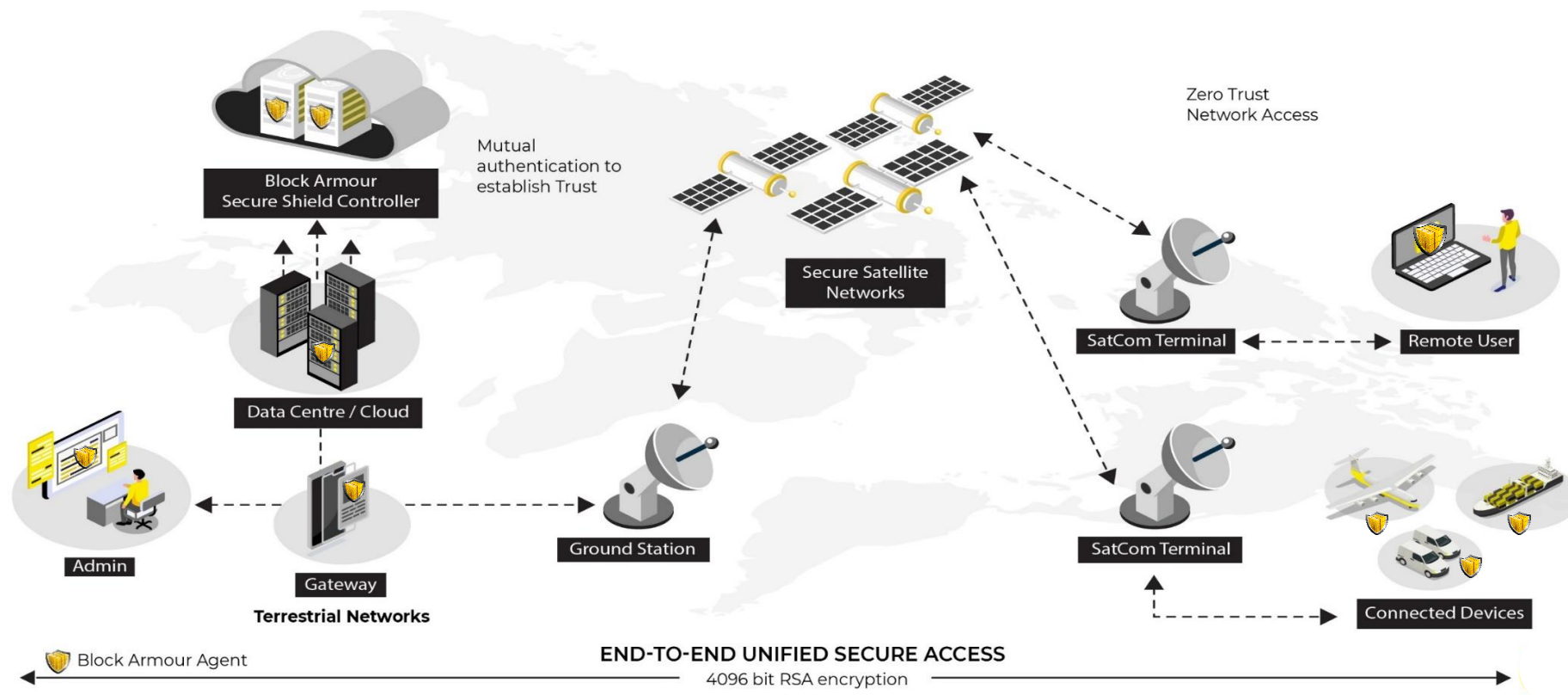


## Real-Time Monitoring and Response

All critical access is immutably logged on a Blockchain, empowering instant visibility and response to maintain system integrity

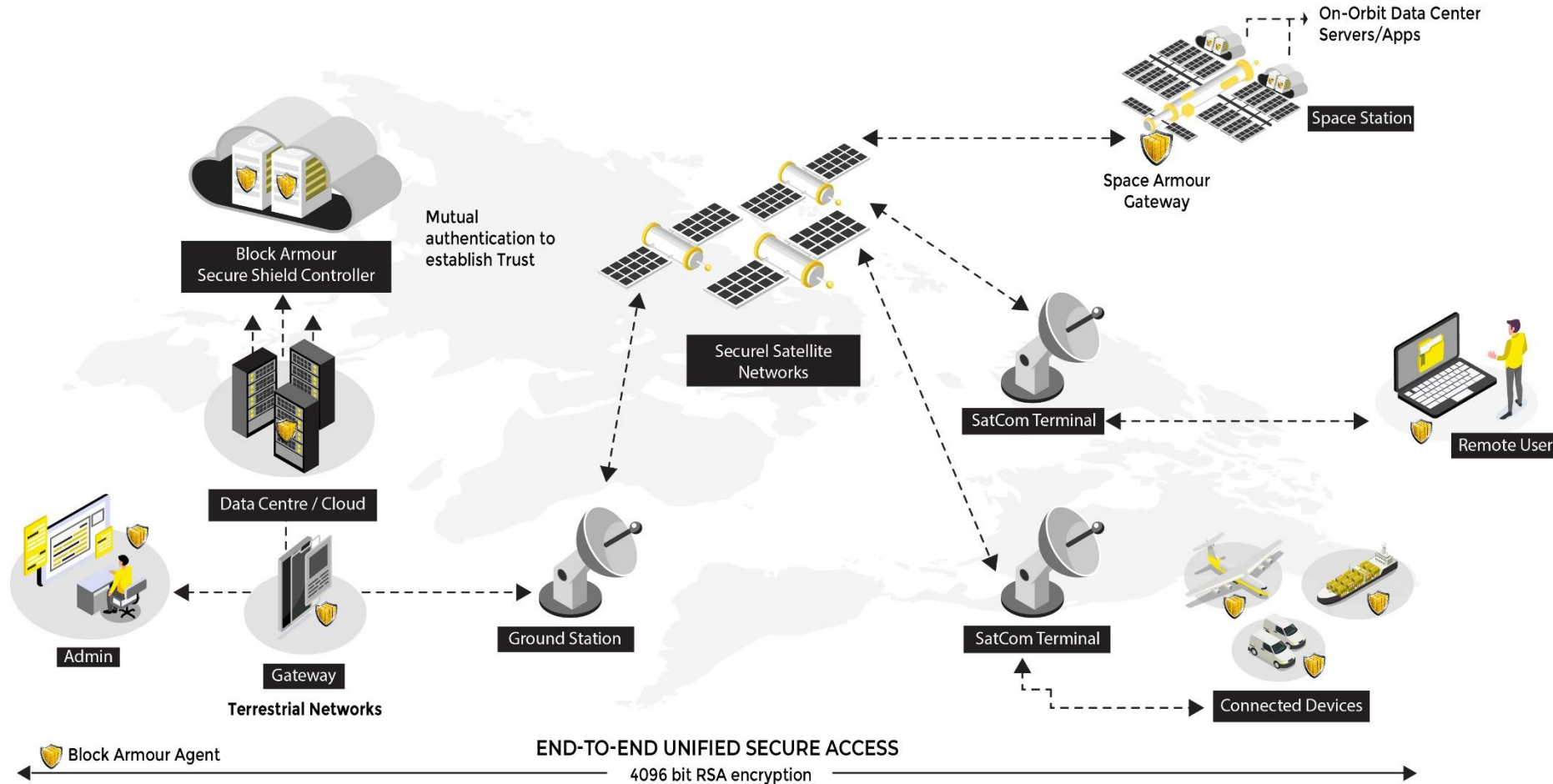
*We've taken a proven enterprise Cybersecurity platform and have extended it to deliver next-gen security for interconnected space ecosystems*

# Space Armour secures space and ground assets and enables end-to-end ultra-secure government, enterprise, and IoT communication over commercial satellite networks



*The solution empowers organizations demanding the highest level of secure communication channels to leverage commercially available satellite networks*

**Space Armour** also secures Space Station-based Data Center / Cloud infrastructure and enables end-to-end secure access to these systems directly or via satellite networks



The Deep Tech platform is powered by Software Defined Perimeter (SDP) architecture and private Blockchain technology, and is aligned with the **NIST Zero Trust Framework**



*By leveraging Blockchain based digital signatures - not just IP addresses - to identify, authenticate and authorize all assets/devices, the platform is able to deliver end-to-end Zero Trust security over terrestrial as well as modern SatCom networks*



**The Market:** The space market has grown to approximately \$447 billion – up from \$280 billion in 2010 – and could grow to \$1 trillion by 2030

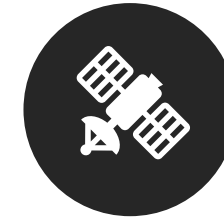
### Our Traction



Delivered Zero Trust security solutions to enterprise customers across USA, SE Asia, India, and Middle East



Successfully completed a PoC to secure systems for one of the world's largest aircraft manufacturer



Tested the solution to deliver ultra-secure cyber security mesh networks over SatCom and 5G

**Analysts forecast cumulative cybersecurity revenues of \$33.2B in the commercial segment and \$5.9B from Government and Military over the next decade**

## Collaborative Strategy: We've forged strategic alliances with organizations aligned with our vision of a secure Digital future and are extending that into SpaceTech

Some of the folks we work with:



*Block Armour was accelerated by Airbus, while Space Armour is a part of the UK Space Agency's accelerator program*

# The Collaborative Outcome: An end-to-end Zero Trust Cybersecurity Mesh to protect today's interconnected space ecosystem against rapidly emerging cyber threats



## **Blockchain-based Digital Identity**

for users, connected  
devices and central  
servers/services



## **Invisible & locked down critical systems**

with micro segmentation  
and fine-grain access control  
to systems



## **Best-in-class military- grade encryption**

All data sent over the network  
is encrypted at source with  
256-bit AES encryption



## **Immutable & tamper- proof logs**

recorded securely on the  
Blockchain for instant  
access and analysis

*Its time to reclaim control and secure the rapidly-evolving Space ecosystem with next-gen cybersecurity!*

# Reach Us

**Join us as we deliver next-gen Zero Trust Cybersecurity solutions for the Space age**

**Drop us a line or reach us via any of the channels below:**



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