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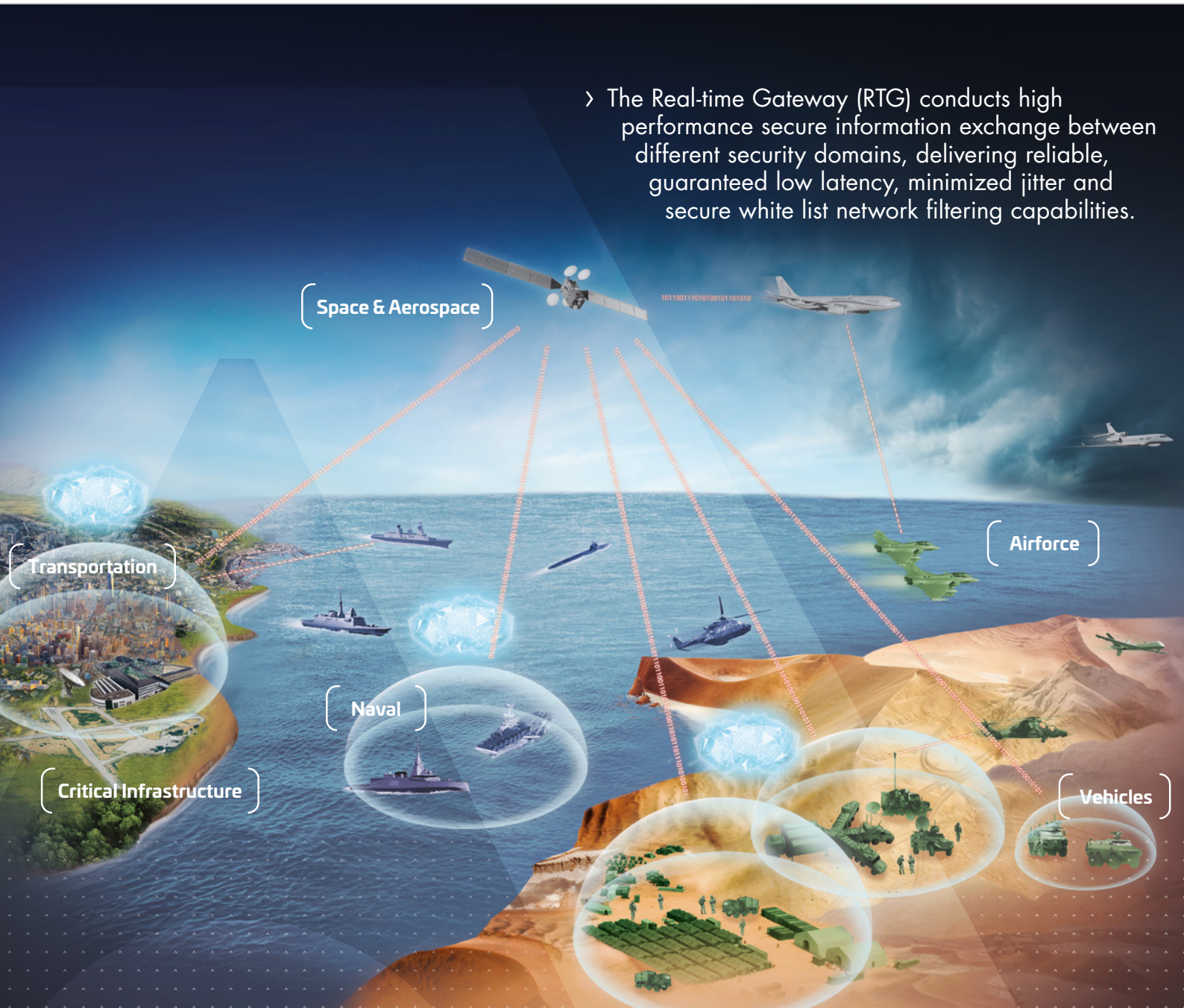
Building a future we can all trust

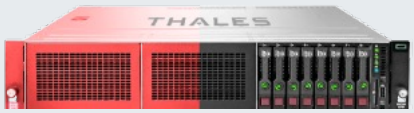
CYBELS PROTECT

Cybels Real-time Gateway

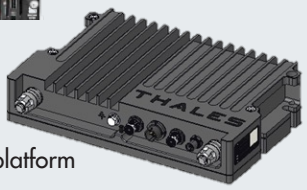
High-performance secure information exchange between security domains



Cybels Real-time Gateway



RTG on 19" platform



RTG on vehicle platform

With growing connected sensors and real-time information exchange on board of various platforms, it can be challenging to ensure a high level of cybersecurity. Multiple security domains are becoming the norm now.

The timely and real-time exchange of the right information between these security domains is of eminent importance to meeting the specified performance levels of these compartmentalized infrastructures. The consequence is that time-critical data streams are traversing security boundaries and therefore have to be checked for integrity and authorization while doing this at a very low latency and jitter.

Flexible to configure

In secure maintenance mode, the RTG offers the flexibility for a wide range of filtering rules and protocols using filter definition language. A dedicated out-of-band management interface is available to securely configure the filtering rules. As soon as the RTG enters its operational run-time mode, these filtering rules are fixed and assurance is delivered for what has been set.

Secure separation

In order to form a secure separation between the connected domains, certified seperation mechanisms are used.

Security logging

The RTG provides security event logging for security monitoring & audits. Log files can be stored locally or on a remote logging server via a dedicated out-of-band logging interface.

Flexible architecture

The RTG has a flexible architecture to support various performance levels and functional needs. Network interfacing is supported from 1Gbps up to 40Gbps speeds. Up to four filtering instances are supported on one physical device. Each instance has its own data interfaces and filtering rules configured.

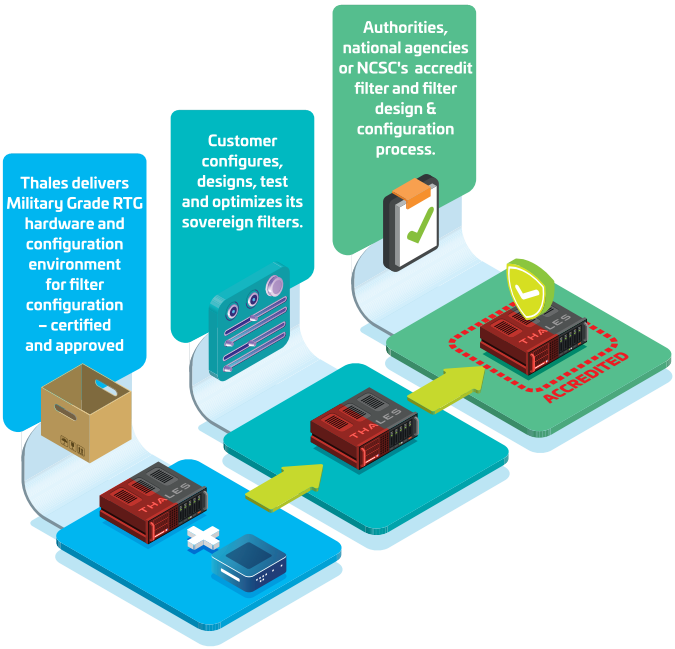
Security evaluation

The RTG is based on a secure-by-design philosophy to facilitate security evaluation. Through this approach, the RTG has been made with proven and certified building blocks.

Our Real Time Gateway performance

- 2 variants: 'S' and 'High Performance'
- High speed: From 1 Gbps up to 40 Gbps interfacing support
- Security logging – OOB platforms using SNMP
- Predictable low latency
- Bi directional content filtering
- Filter functions based filter configuration language providing flexibility
- Wide range of filtering rules & protocols (OSI-layer 2,3,4 and 7)
- CC-EAL 4+ certification (pending)

Deploy the Real-time Gateway as a sovereign solution



Technical Data	
Mechanical interfaces	
Dimensions	19 inch rack, 2U
Weight	< 20 kg
Color	Black
Power	
Power consumption	< 500W
Performance	
Latency	< 2 ms
Jitter	< 100 µs
Certification (pending)	
CC-EAL4+	
Tempest (optional)	
Roadmap	
Rugged form factor	
40Gbps optical interface for enhanced performance	

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