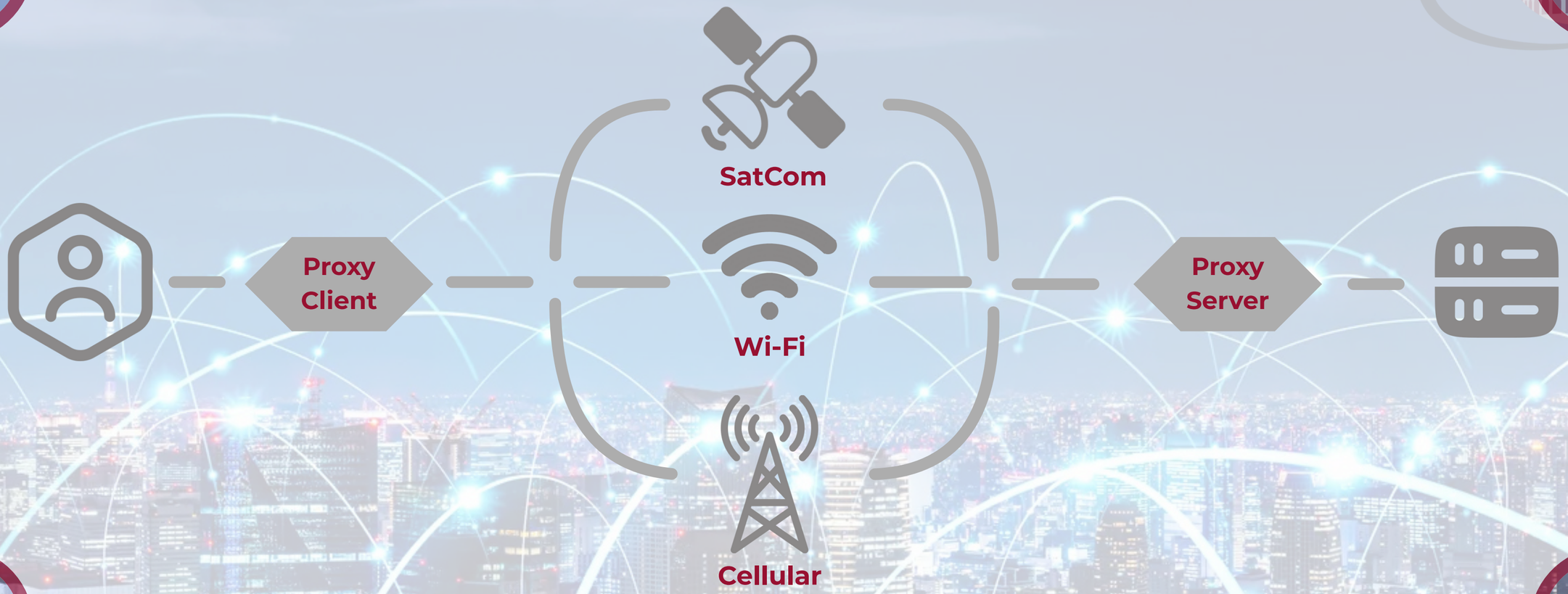
Multi-Path QUIC



ROMARS

TWO TECHNOLOGIES INTO ONE PRODUCT

Multi-Path

Performance improvement

- More throughput and capacity
- Redundancy
- Reliability

Use of two or more connections simultaneously, even with different characteristics:

- Satellite (GEO, MEO, LEO);
- Terrestrial (4G, 5G, WiFi, FWA, etc.).

QUIC

Most of Internet traffic is based on QUIC

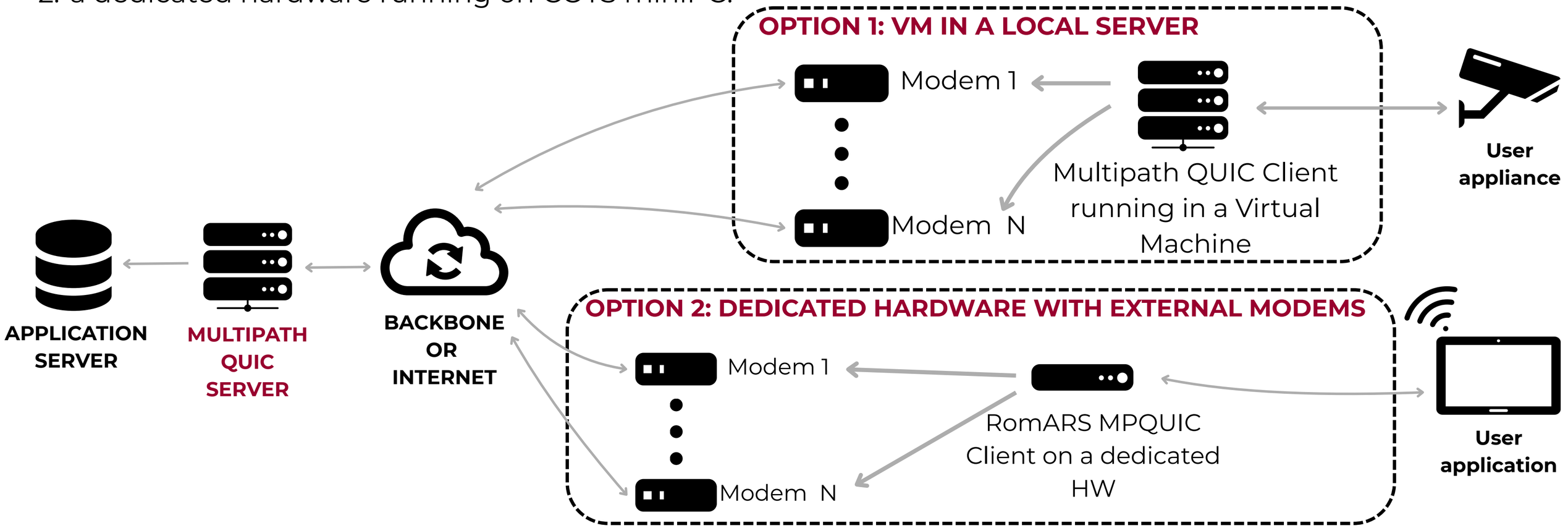
Main benefits:

- Reduced Latency/Connection Set Up
- Security provided by default
- Robustness to channel impairments
- No HOL blocking
- Independent Multiple Stream
- Tight interworking with application
- Resilience to variation of access network and of IP address (session keepalive)
- Stream Priority and Scheduler
- High-degree of QoS customization
- New congestion control Algorithm
- Efficient working on uncontrolled networks

DIFFERENT OPTIONS FOR IMPLEMENTATION

Multipath QUIC solution by **RomARS** can be provided in:

1. a client-server solution running on VM;
2. a dedicated hardware running on COTS miniPC.



BEST SOLUTION FOR PROFESSIONAL CONNECTIONS

Well suitable for **industrial, maritime, governmental** (including military and emergency) and in particular for **mobile connectivity** (railways, maritime, roads and air services).
MPQUIC is also required by **3GPP** Rel18 for 5G Multipath and by FRMCS for new Railways Telecommunication and Signalling system.

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