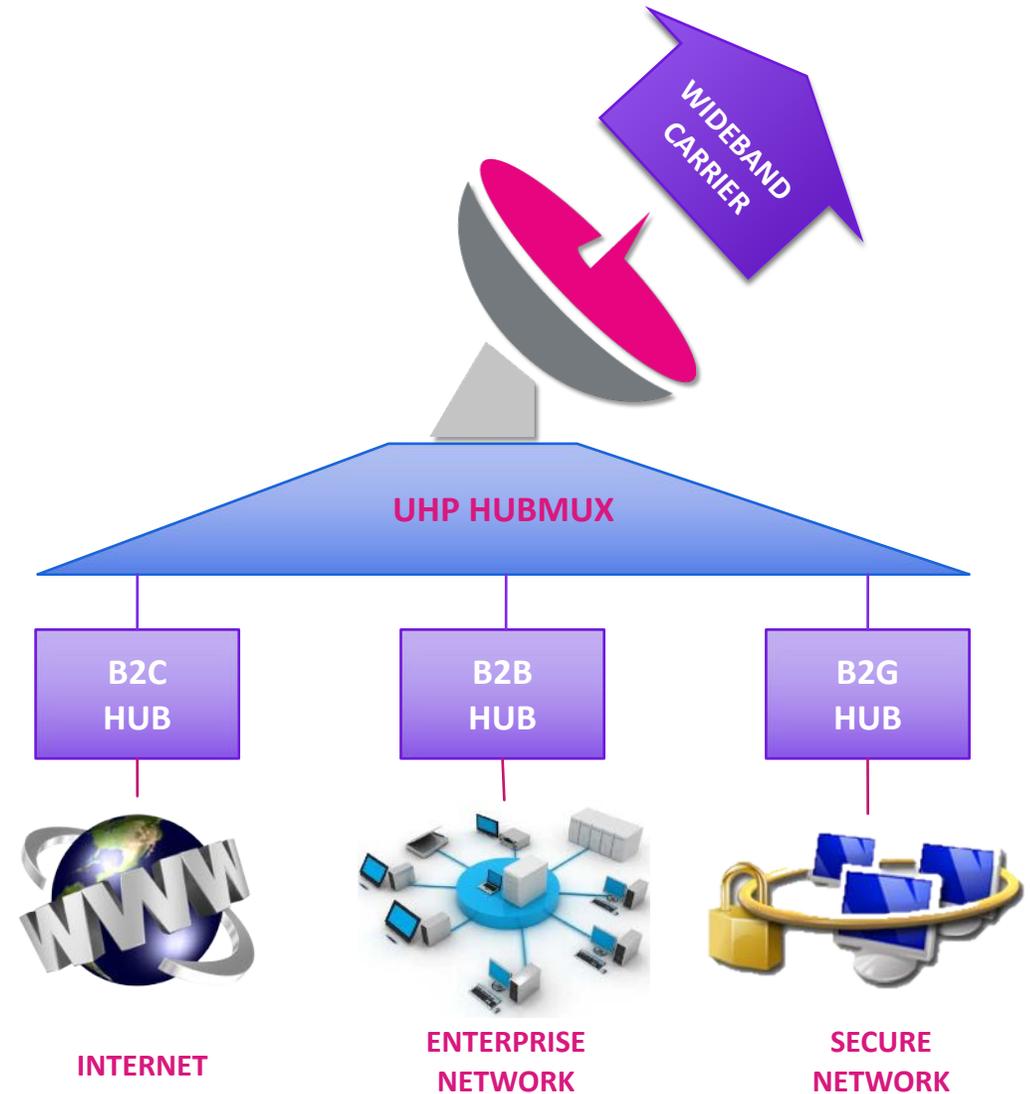# BROADBAND INTERNET

UNIVERSAL HARDWARE PLATFORM

BROADBAND

- Designed for multi-spot **High-Throughput Satellites**

- **HUBMUX –** multiservice use of wideband transponders

- High availability: **Local-/Geo- Redundant** Teleports with Fast switchover

- **DVB-S2X bandwidth-efficient** modulation and coding

- Highest **TDMA efficiency**: 96% and fast BW allocation

- **Slotted Aloha** network entry for periodically active terminals

- NMS with XML-based **API** for easy integration with OSS/BSS

- **Network-locked** terminals for aggressive subsidized business models

- Easy to use, reliable terminals with **ultra-fast start** on power on

Rural

Schools

Remote Office

UHP HUBMUX: WIDEBAND HTS NETWORK

- Aggregation of multiple TDM/TDMA and SCPC networks in a single wideband carrier up to 240 MHz

- Dedicated bandwidth with rebalancing and full traffic isolation of embedded networks

- Efficient and diversified multiservice use of HTS capacity with new dimension of VNO cooperation

- VSAT HUB virtualization with SW-activated pay-as-you-grow functionality and dynamically swappable licenses

WIDEBAND CARRIER

UHP HUBMUX

B2C HUB

B2B HUB

B2G HUB

INTERNET

ENTERPRISE NETWORK

SECURE NETWORK

UHP NETWORKS

MULTI-SPOT HTS HUB

- Designed for multi-spot HTS networks

- Based on low-CAPEX universal controllers

- Required functionality is activated by SW license as network develops

- Easy SW license transfer between teleports, beams and satellites

- Cost-effective scalability up to 64 spot-beams and 500 000 remotes

- Self-healing hub architecture

- Dynamically assigned network roles

- Automatic M:N local and geographic redundancy

- M:N site diversity with multiple teleports for increased availability

- Saves over 40% of Hub CAPEX due to functionality SW license reuse

BROADBAND TERMINALS

- Compact, easy to install and reliable terminals

- High performance up to 450 Mbps throughput per terminal

- Powerful L3/L2 router with 190 000 pps

- Good for individual use or can power a community hot spot

- Excellent efficiency of forward and return channels

- Two DVB-S2X demodulators for Dual-Gateway and Dual-Band

- Fast slotted-aloha network logon for rarely used terminals