

### 1. What is Comtech ELEVATE?

Comtech ELEVATE is a new managed network platform, building on the success of HEIGHTS and UHP. Comtech ELEVATE is the continuation of our journey towards a cloud based VSAT platform with virtualized waveforms and hardware.

Comtech ELEVATE will introduce a new return access scheme called D-RAM (Dynamic Return Access Modes). D-RAM will leverage HEIGHTS' high-performance H-DNA waveform with UHP's industry-leading efficient TDMA waveform. The combined D-RAM access method will switch in real time between TDMA, H-DNA and SCPC, to maximize network resources.

In addition to the new market leading return access scheme D-RAM, we are also introducing a new high-performance modulator based on CDM-780 for wideband outroutes. Comtech ELEVATE will leverage the CDM-780 to be used as the outroute modulator, supporting up to 3 outroutes of 500 Msps each. The CDM-780 can also be configured for MEO/LEO constellations and mobility applications supporting a 500 Msps TX carrier with 2 x 500 Msps RX carriers for seamless handover.

The new cloud-enabled ELEVATE NMS 1.0 supports a wide array of APIs enabling it to work with 3rd party control applications and manager of managers.

Comtech ELEVATE includes security features such as AES-256, SNMPv3, and X.509 authentication, along with full mobility. M:N local and geographical redundancy as well as dual gateway support provide maximum flexibility and uptime. Mesh, hubless mesh, P2P and star topologies are also supported.

Comtech ELEVATE will be available mid 2022.

### 2. I'm an existing UHP customer. What will happen to the platform?

Comtech will continue to develop, enhance and support the UHP platform based on existing architecture and modems. Both UHP Hubs and remotes can be migrated to the Comtech ELEVATE technology.

### 3. I'm an existing HEIGHTS customer. What will happen to the platform?

Comtech will continue to develop, enhance and support HEIGHTS based on existing architecture and modems. Customers can be assured that HEIGHTS will continue to lead the market in the high performance VSAT segment as it is today with industry leading jitter and latency performance. Certain HEIGHTS elements can be migrated to the Comtech ELEVATE technology.

### 4. What data rates will D-RAM support?

D-RAM support up to 200 Mbps.

### 5. Will header and payload compression be supported?

Yes.

### 6. Will Comtech ELEVATE support TCP and GTP acceleration?

Yes. TCP and GTP acceleration is included in Comtech ELEVATE.

### 7. Will Comtech ELEVATE have a new NMS?

Yes, it is called ELEVATE NMS 1.0 and is an in-house development.

### 8. What will be the minimum data rate to keep a remote active in the network with D-RAM?

2 kbps.

### 9. D-RAM: what coding and modulation will be used?

TDMA will be based on UHP LDPC and H-DNA is based on HEIGHTS VersaFEC-2. SCPC is based on DVB-S2X.