

Overview

Kratos has a long history of Turnkey Earth station deliveries, from Green Field site builds through to Turnkey system upgrades.

We understand that logistics, project management and ancillary systems are just as important as the core satellite technology and hardware that is being installed.

As Kratos, we can manage as much or as a little of the overall project scope as the customer wishes. The value added by us doing this can enable customers to focus on running their day to day core business without the major distraction of multiple supplier management and the associated risks in large scale projects.



Our Turnkey projects have included full earth stations builds, including the Equipment/Data Centre through to RF Equipment and Antenna for applications such as:

- Broadcast and Headends (DTH and contribution)
- Satellite Tracking, Telemetry & Command (TT&C) and In Orbit Test (IOT)
- Communications Gateways (e.g. Inmarsat and Thuraya)
- Carrier System Monitoring (CSM)
- Satellite TVRO
- VSAT systems

We have the experience, the knowledge and the capability to delivery Turnkey projects in demanding time scales and to a high standard of quality.

Broadcast (DTH and Headends)

Within broadcast DTH applications, waveguide networks can be very large and complex. With our intelligent controllers and DTH system experience we can deliver highly innovative designs that maximise system available and optimise maintenance functionality of the system.

We have delivered many broadcast systems to customers such as: AsiaSat, Dialog TV, Globecast, Sky and others.



TT&C and IOT Systems



TT&C Earth Stations may require monopulse antenna tracking for accurate and stable satellite location capability. In addition, customers often want combined earth station functionality to allow for DTH, VAS and TT&C capability to be achieved through the same RF system assets. Our extensive understanding of these critical earth stations, along with experience with the supply and integration of ranging baseband sub-systems (e.g. Cortex CRT) and Satellite Control Centres software, enables us to provide innovative solutions that add value to our customers.



Communications Gateways

Communication Gateways for Global Communication Systems such as: Thuraya, Inmarsat, Iridium, Globalstar, require resilient high technology earth stations with complex RF and baseband system integration designs. We have wide ranging experience in the delivery of different gateway systems for industry leading service providers.



CSM and TVRO

CSM and TVRO systems sometimes require multiple antenna installations in confined areas, quite often in roof top locations. Our experience site designers can analyse and model the antenna installation areas allowing us to maximise the use of the available foot print.



Turnkey Scope

The scope of a turnkey solution can include:

- Green Field Site Development
- Civil engineer: Building and Antenna Foundations
- Building Design and Build
- Equipment shelters
- Air conditioning systems
- Fire Alarm/Suppression Systems
- Power Systems: Distribution, Generators, UPS
- Lighting Systems
- Cable Management and Internal site trench systems

Earth Station systems often also include:

- Antenna De-Icing (heated by: Electricity, Gas or HPA Exhaust Air)
- Safety Inter-Lock systems
- Dehydrator Sub-Systems
- RF Fibre Links
- Microwave Links
- Antenna Auxiliary Drive Systems
- Hub Air Conditioning
- Cable Gantries
- Radomes