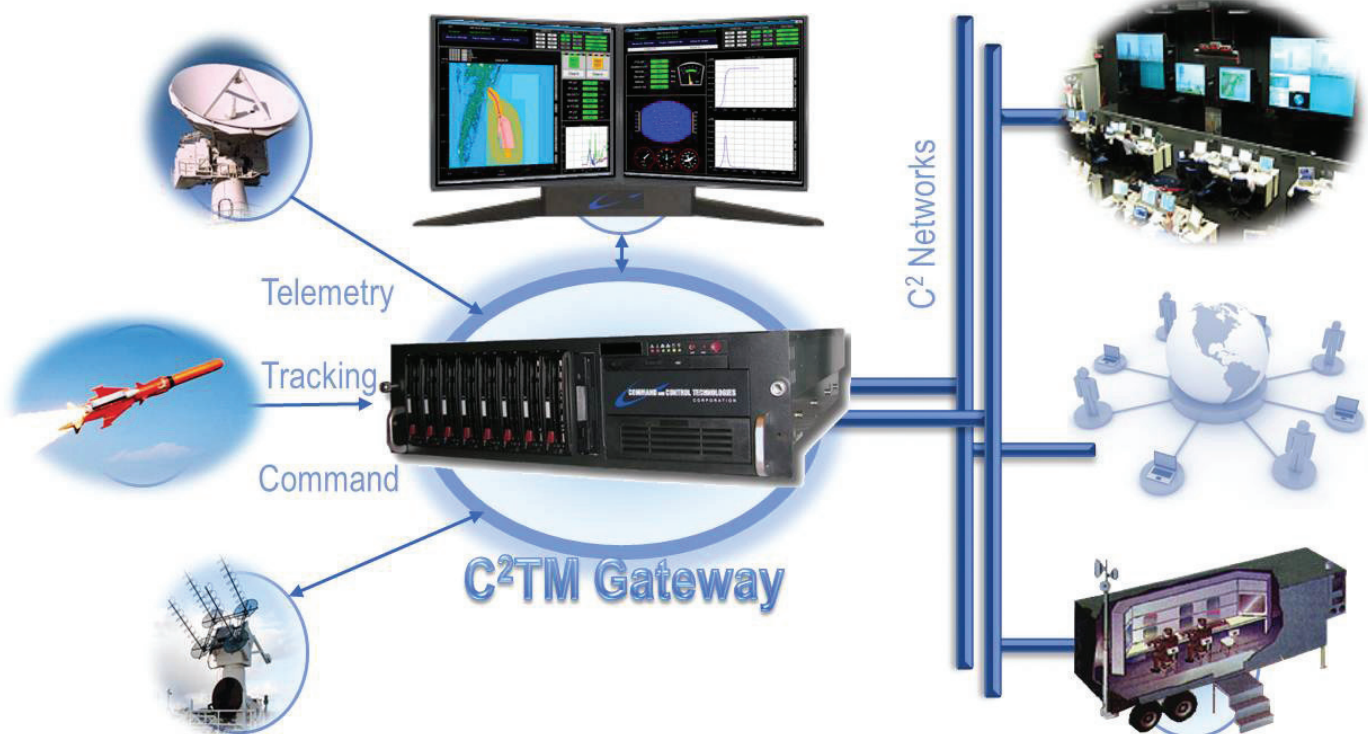


## Network Centric Telemetry Processing

The C<sup>2</sup>TM Gateway™ is uniquely engineered to enable decision-focused situation awareness with unparalleled configuration flexibility, timely information processing and visualization, and robust interoperability. The C<sup>2</sup>TM Gateway™ can deliver your mission critical telemetry data synchronized, fused, and in context, to wherever you do business.

Built on the latest PC multi-processing computer technology, the newest and most powerful PCI telemetry components available, and certified Linux; C<sup>2</sup>TM Gateway™ is powered by the Command and Control Toolkit™ (CCTK™) interoperability with network based communications gateway services for broadcast, point-to-point, peer-to-peer, HTTP, as well as semantic exchange between communicating systems.

The C<sup>2</sup>TM Gateway™ optionally provides real-time generation of IRIG 106 compliant telemetry via an integrated simulation environment that supports modeling the continuous or discrete time behavior of any device. Simulations can be quickly and easily composed in to mission scenarios for verification of other systems, mission/ operation dress rehearsals, operator training and qualification, and validation of processing algorithms and displays.



## Major Features:

- Up to four 40 Mbps PCM streams
- Up to 16 Radar streams
- Modular decom and data process software for customization and extension
- Real-time 2D/3D visual dynamics
- Network and web data distribution
- Headless, or graphical client operation
- Modeling and simulation environment
- Digital raw & processed data acquisition & recording
- Playback & data reduction
- Built-in applications for quick-look, messaging, and ad-hoc data analysis
- XML configuration/ set up/ exchange
- NTP Time Server

## Typical Applications:

- Telemetry ground station
- Test range operations
- Vehicle manufacturing and testing
- Ground systems testing
- Control center telemetry data acquisition
- Data recording/ reduction/ analysis
- Training simulation

## Server:

- Rackmount Semi-rugged, Redundant Pwr
- Xeon Multi-core, High Performance RAID SSD
- 2 to 6 Gbit NICs
- Command and Control Toolkit Software

## Bit Synchronizer:

- Accepts all IRIG 106-13 PCM code types
- Bit Synch programmable input rates from 1 bps to 40 Mbps
- Less than 1 dB to theoretical bit sync BER performance
- All IRIG 106-11 code types are selectable for PCM output

## Frame Synchronizer:

- Supports PCM streams from 1 bps up to 40 Mbps
- Supports up to 1024 minor frames per major frame

## IRIG Time Code Reader:

- Supports IRIG A, B, G & NASA- 36

## PCM Simulator:

- Programmable PCM streams from 1 bps up to 40 Mbps
- Archive playback capability