



Remotely monitor RF alarms on downstream DOCSIS devices.

*CheetahLynx works with Cheetah Technologies's CMD-EL to provide RF Level Measurements and FCC 24 hour reporting.*

## CheetahLynx™ Controller for the CMD-EL

Cheetah Technologies CheetahLynx Controller (CLC) is a 1 rack unit, small form factor IP based network element that enables cable operators to remotely view and alarm on RF level and digital measurements on downstream DOCSIS channels using Cheetah Technologies's CMD-EL DOCSIS devices.

The controller can be setup for manual or automatic discovery of all the CMD-EL devices that are deployed at various locations in the network (up to 200 devices per controller). As the number of CMD-EL element deployments grows, additional controllers can be added to meet system expansion requirements.

The CheetahLynx controller's built in suite of applications offers:

- RF Level Measurements
- Digital Channel Measurements
- FCC 24 hour reporting capabilities with error identification
- Web-Based control available to access, manage, and configure devices
- Automatic detection of configured channel plans
- Simplistic download capabilities for provisioning and setting alarm thresholds.
- Real time display of RF level parameters in multiple display formats
- Customizable scheduling application
- Export of data into PDF and CSV format
- Provides a north bound SNMP interface for alarm forwarding
- Forwards real time alarm data to registered external systems

## Primary applications

### Channel Plan/Channel Limits Administration

Upon detection of a CMD-EL device in the network, the CheetahLynx controller automatically uploads the CMD-EL identified channel plan to its database. Authorized operators can edit the channel plans, assign channels to tilt groupings, save changes as a template, and download the changes to the EL device.

In addition, the controller provides authorized users with the ability to configure alarm limits on channel RF levels (video, audio, and separation), tilt values and average power levels for digital channels. Once defined, the thresholds can be downloaded to a single device or set up as an alert profile which can be downloaded to multiple devices simultaneously, simplifying the



provisioning process.

**Real Time Performance Management**

Using the Lynx controller's suite of near real time data collection applications, operators can visually obtain a snapshot of the RF levels of selected channels in various display formats. These displays can span a single channel or multiple channels and have options for viewing the tilt across the channels. Values obtained can be saved as a baseline for comparisons with future levels in the network. With a single click, operators can view all their channel listings along with their video, audio, and separation for analog channels and average power values for digital channels. A user selectable 3 channel Spectrum display automatically provides updated data through a fast poller mechanism. Any values observed that are outside of operator defined thresholds are visually indicated in the running application.



**FCC Reports**

The CheetahLynx controller provides a customizable scheduler that enables authorized operators to create automated 24 hour FCC test reports. The report verifies all the values to be in compliance of FCC guidelines and displays easy error codes on channel values that are outside of tolerance. Reports can be quickly verified for accuracy before saving them off for future comparisons.

Channel	Power	...
1	...	...
2	...	...
3	...	...
4	...	...
5	...	...
6	...	...
7	...	...
8	...	...
9	...	...
10	...	...

**Fault Management**

CheetahLynx's Notifier application offers real time visibility into impairments that occur in the system based on an operator's configured alarm criteria. The interactive and flexible application allows users to sort, customize layouts and create dynamic filters. Users can also launch third party applications based on the details of an alert.



**Security Administration**

CheetahLynx Administrators can setup user and group profiles providing access to certain applications and operations to specific users. Additionally, administrators can setup the controller for automatic database backups.



**Installation**

All CheetahLynx controllers come pre-installed with the latest version of the software licensed for immediate deployment requiring minimal configuration for turn-up.