

# RAD ETX 203, 205, 220 debug and information commands

Author: Yuri Slobodyanyuk, <https://www.linkedin.com/in/yurislobodyanyuk/>

Carrier Ethernet Devices by RAD (ETX-203AX, ETX-203AM, ETX-203AX-T, ETX-205A, ETX-220A) are quite popular with telco companies around the world for connecting end clients to the backbone at layer 2. And while reference documentation is available, I couldn't find the debug/information commands digest on the Internet at all. This post, I hope, comes to fill the gap.

The commands below are meant to be run on the device CLI itself, not on provisioning system of some kind. I show examples of using them below as well.

| Command   | Description   |
|---|---|
| <b>show configure port summary</b>  | Show port summary: state (up/down), speed   |
| <b>show config port <i>name</i> status</b>  | Show port status: administrative and operational states, speed/duplex, connector type, MAC address, and most important (for fiber) - RX/TX signal power (dBm) |
| <b>show config port <i>name</i> statistics</b>  | Statistics of the port: total bits/frames passed,maximum/minimum bits/sec seen, and most interesting - CRC errors, error frames, oversize frames, discards.   |
| <b>show config port <i>name</i> statistics</b>  | Statistics of the port: total bits/frames passed,maximum/minimum bits/sec seen, and most interesting - CRC errors, error frames, oversize frames, discards.   |
| <b>config port <i>name</i></b><br><br><b>rate-measure interval <i>seconds</i></b><br><br><b>show rate</b> | Show port utilization in bits/sec in real-time  |

| Command   | Description  |
|---|--|
| <p><i>Responder:</i></p> <p><b>config flow</b></p> <p><b>service-ping-response local-ip 13.13.13.2/30</b><br/> <b>next-hop 13.13.13.1 egress-port ethernet 4/2</b><br/> <b>vlan 777</b></p> <p><i>Ping sender:</i></p> <p><b>config flow</b></p> <p>service-ping local-ip 13.13.13.1/30 dst-ip<br/> 13.13.13.2 next-hop 13.13.13.2 egress-port<br/> ethernet 4/1 vlan 777 number-of-packets 10<br/> payload-size 1450</p> | <p>Send ping over the client vlan (here 777) from ETX to ETX to measure latency and packet loss. You configure one ETX as responder and another one as sender.</p> |
| <b>show configure flows summary brief</b>   | List all flows configured on this ETX briefly  |
| <b>show configure flows summary details</b>   | List all flows configured on this ETX with details   |
| <b>show config system system-date</b>   | Show system time of the appliance, important for logs/alarms correlation.  |
| <b>show config reporting brief-alarm-log</b>  | Show alarms log, their severity/state/last raised time   |