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

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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 like RADview. You can see how output looks like when run on the real ETX on my blog post https://yurisk.info/2020/03/21/rad-etx-203-203-220-debug-and-information-commands-examples/.

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

| Command | Description |
| --- | --- |
| *Responder:*<br><br>**config flow**<br><br>**service-ping-response local-ip 13.13.13.2/30 next-hop 13.13.13.1 egress-port ethernet 4/2 vlan** 777<br><br>*Ping sender:*<br><br>**config flow**<br><br>service-ping local-ip 13.13.13.1/30 dst-ip 13.13.13.2 next-hop 13.13.13.2 egress-port ethernet 4/1 vlan 777 number-of-packets 10 payload-size 1450 | 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. |
| **show configure flows summary brief** | List all flows configured on this ETX briefly |
| **show configure flows summary details** | List all flows configured on this ETX with details |
| **show config system system-date** | Show system time of the appliance, important for logs/alarms correlation. |
| **show config reporting brief-alarm-log** | Show alarms log, their severity/state/last raised time |