

If you experience performance problems like freezing, slow loading of the pages and the slides, tabs not opening, glitches, browser crashing, PMA.control provides you with a onboard troubleshooting tool in the tab 'speedtest'.

This speedtest allows to measure both the **roundtrip delay** as well as the **download speed**.

A functional PMA.control instance needs an open connection between the browser and the server site. That means you need multiple **round trips** to and from the (tile-)servers before the browser starts loading the content. This roundtrip delay is determined by the quality of your local network (WI-FI or Ethernet), local routers, internet provider, geolocation of the servers, traffic volume and network load at a specific time. E.g. If your servers are on the other side of the planet from your client, each round trip is going to be over 500 milliseconds.

From our own measurements during past trainings we concluded that for a satisfactory user experience, a maximal **roundtrip delay** of 120 ms and a **download speed** of at least 3-5 Mbps per active browser is needed.

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