

# Vehicle & NUC Monitoring

On the bottom, you see variables related to the vehicles (vehicle state data and the IPS poses) that are exchanged via DDS. Values are color coded green, yellow or red according to expected values. This makes it possible to quickly check if all vehicles are operating normally. You can reset this view anytime using the *Reset View* button.

Reset view	Exp time: ---	▶ HLCs online: 0	▶ Reboot HLCs	▶ HLC RTT (ms): ---	▶ Vehicle RTT (ms): ---
	Vehicle 01	Vehicle 09	Vehicle 11		
Battery Level [%]	71	71	71		
IPS age [ms]	120	80	120		
VehicleState age [ms]	15.8	15.93	16.02		
Clock Delta [ms]	0.5	0.5	0.5		
Reference Deviation [m]	--	--	--		
Speed [m/s]	0.00	0.00	0.00		
Remote HLC [y/n]	no	no	no		

You also find information regarding the runtime of the currently running experiment, HLCs / NUCs that are currently online and RoundTripTime values (computed when no computation is performed) to the HLCs / NUCs and vehicles.

## Round Trip Time

More information can be found [here](#).

## HLC/NUC Monitoring

More information can be found [here](#).

## VehicleState age

This is roughly the duration since the last VehicleState Message was received.

When the LCC receives a new message it saves the current time `last_state_msg = t_now` and in the UI it displays `last_state_msg - t_now`. Thus the shown VehicleState age does not necessarily have to correspond with the actual age of the information that the LCC has about the vehicle this would be `vehicleState.header().create_stamp() - t_now`.