			1
	nest_to_tvb	nest_to_tvb	
«ConsumerNESTData» Package::SimulatorIO	NEST Output	TVB Output	«ConsumerTVBData» Package::SimulatorIO
simulation_time : Receive data from NEST and add them in a shared buffer Responsibilities Get data from NEST			simulation_time : Receive data from TVB and transfert them to transformer Responsibilities Get data from TVB
transfert to transformer			transfert to transformer
«TransformerSpikeRate» Package::SimulatorIO synch: time of synchronization	Transformer	Transformer	«TransformerRateSpike» Package::SimulatorIO id: id of NEST devices
dt: time of integration path_init: path of file with initial condition shape: shape of the buffer width: the size fo the window buffer: buffer with the count of spikes			percentage_shared: percentage of shared spikes nb_spike_generator: number of spike generator nb_synapse: number of synapse attach to the generator function_transformation: selection function of transformation save hist: saving the histogram
save_hist: saving the histogram save_rate: saving the rate generate			saving the nate generate
simulation_time: Transformation function of the spike to rate add_spikes(count, size_buffer, buffer): adding spike in the histogram analyse(count, hist): analyse the histogram to generate state variable and the time			simulation_time: Transformation function of the spike to rate generate_spike(count,time_step,rate): generator of spikes from rates using elephant
Responsibilities 1) get the spike 2) transform spike to rate 3) send rate			Responsibilities 1) get the spike 2) transform spike to rate 3) send rate
The step 1 and 3 need to be dissociate for synchronization requirement. This dissociation allow the transformation module to buffer one more step from the sender or the receiver.			The step 1 and 3 need to be dissociate for synchronization requirement. This dissociation allow the transformation module to buffer one more step from the sender or the receiver.
«ProducerTVBData» Package::SimulatorIO	TVB Input	NEST Input	«ProducerDataNEST» Package::SimulatorIO id first spike detector: id of the first spike detector
simulation_time : Produce data to TVB from receiving data. Responsibilities Receiving data from transformer Send to TVB			simulation_time : Produce data to NEST from a shared buffer Responsibilities Receiving data from transformer Send to NEST
- Gold to 145			OSIN IS NEST