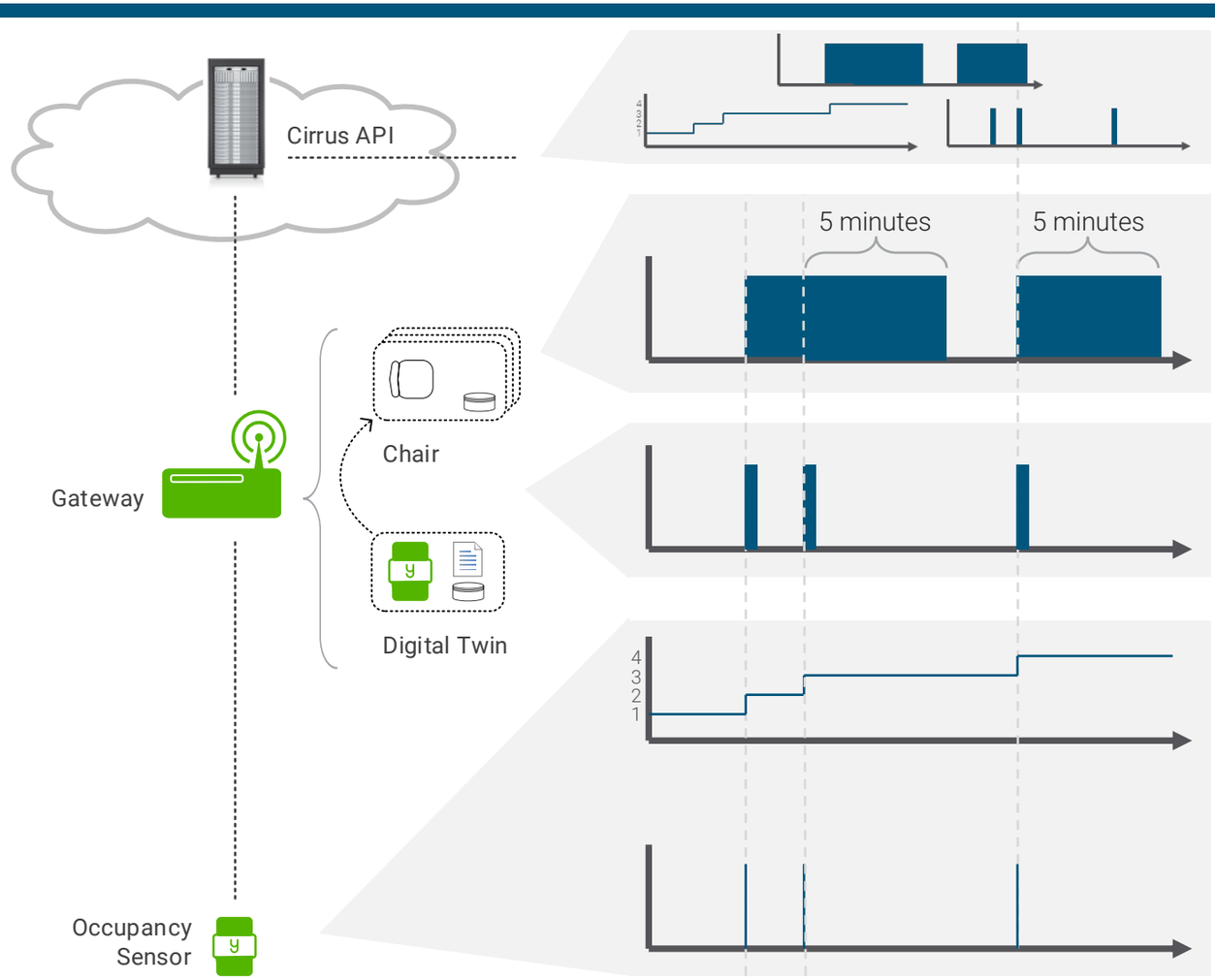
Occupancy Sensor Data, Assets, and Timing

- All sensors are represented by a digital twin in the Gateway
- The digital twin transforms the raw data from the sensor to subscribable data in the API, which in this example means
  - Raw counter data
  - Occupied/free data
  - Chair asset data
- More assets and other types of sensors are of course available
- The chair asset is simply an extension of the last occupied/free data with 5 minutes
- More advanced schemes for determining occupancy can be made using the raw data and for example detect multiple motions before setting the chair to occupied
- The poll period is 2 minutes by default but can be set to 1, 2, 4, or 8 minutes. The number of motion triggers is dependent on the poll period according to the description to the right.



API provides all types of data when subscribing to an occupancy sensor

Chair Asset data [occupied/free] is created in the Gateway and is a pulse just like the triggered motion event below but extended to 5 minutes. This timing is not re-configurable.

Motion/No Motion is created in the Gateway and is a pulse just like the triggered motion event below but extended to 15-120 seconds. This timing is not re-configurable.

Raw counter data from sensor provides a counter that counts up by one for each triggered motion.

Raw data from sensor provides an event at each triggered motion. The pulse has zero width and only contains a time stamp. The sensor can detect motion maximum two times per poll period.