

# Control logic

## DWEEN Boiler

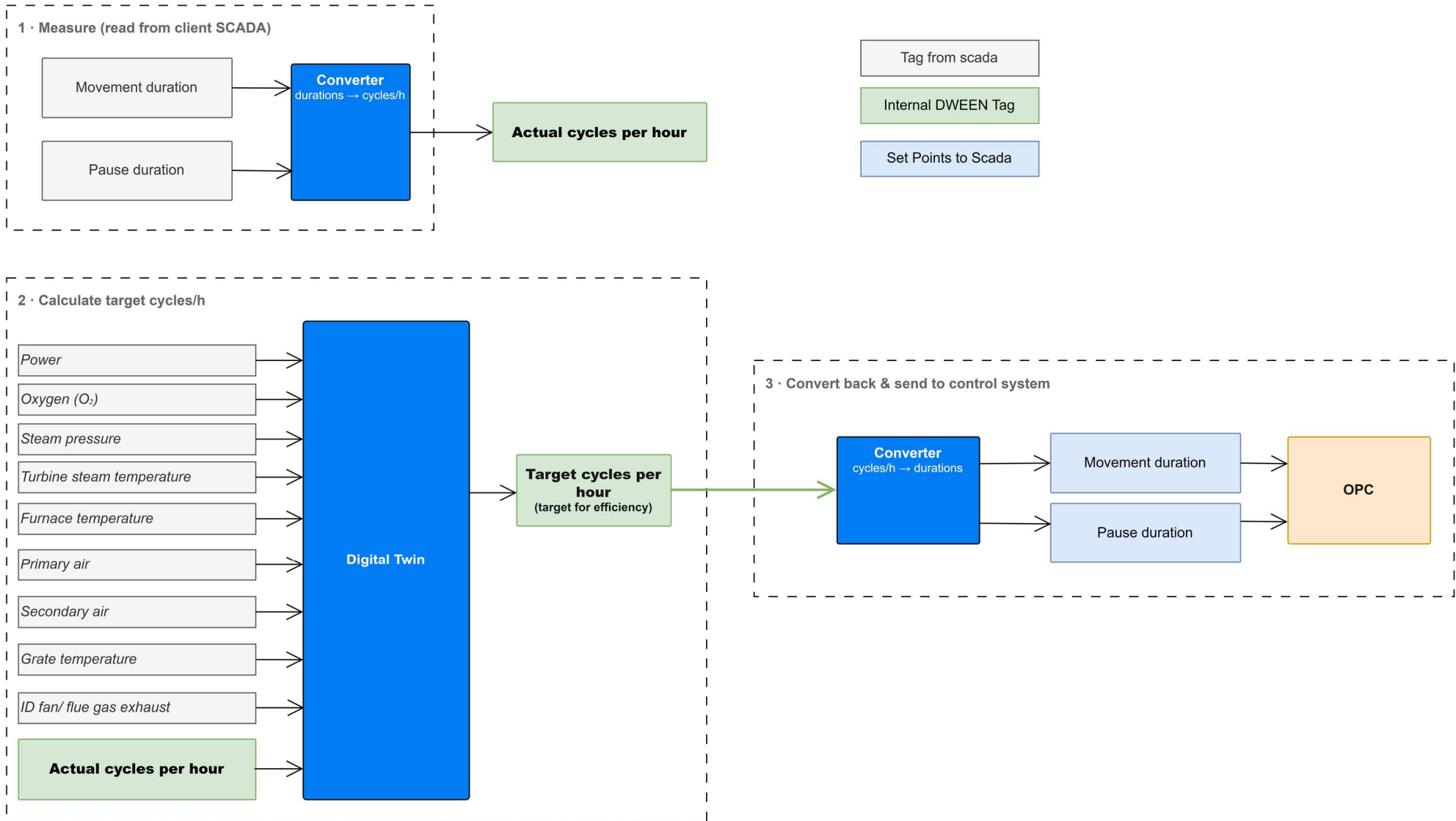
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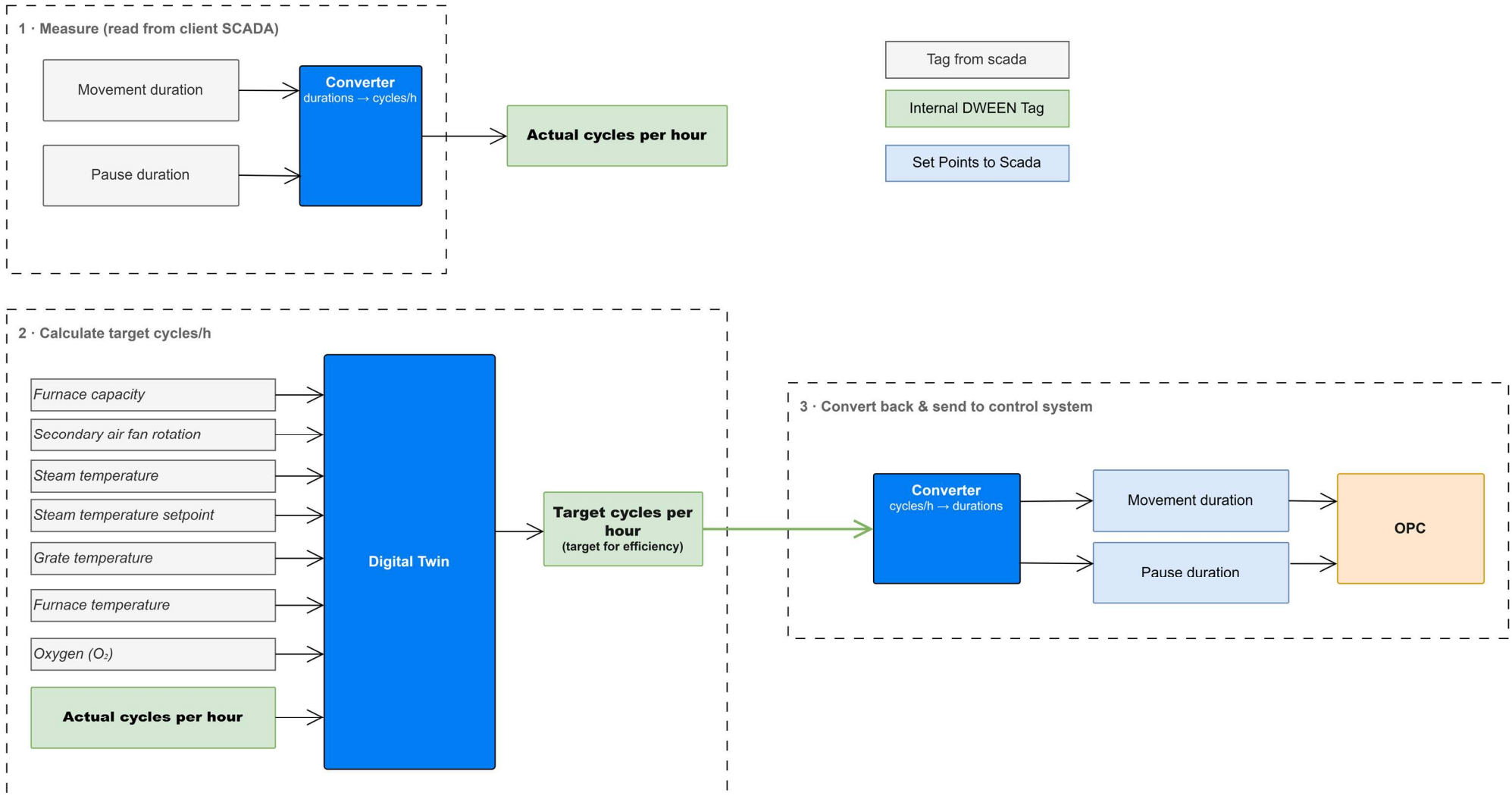
## Fuel — cylinders control

A cycle = fuel hydraulic cylinders travel from start to end and back. Cycles/h cannot be commanded directly, so the target is converted into movement & pause durations sent to the control system.



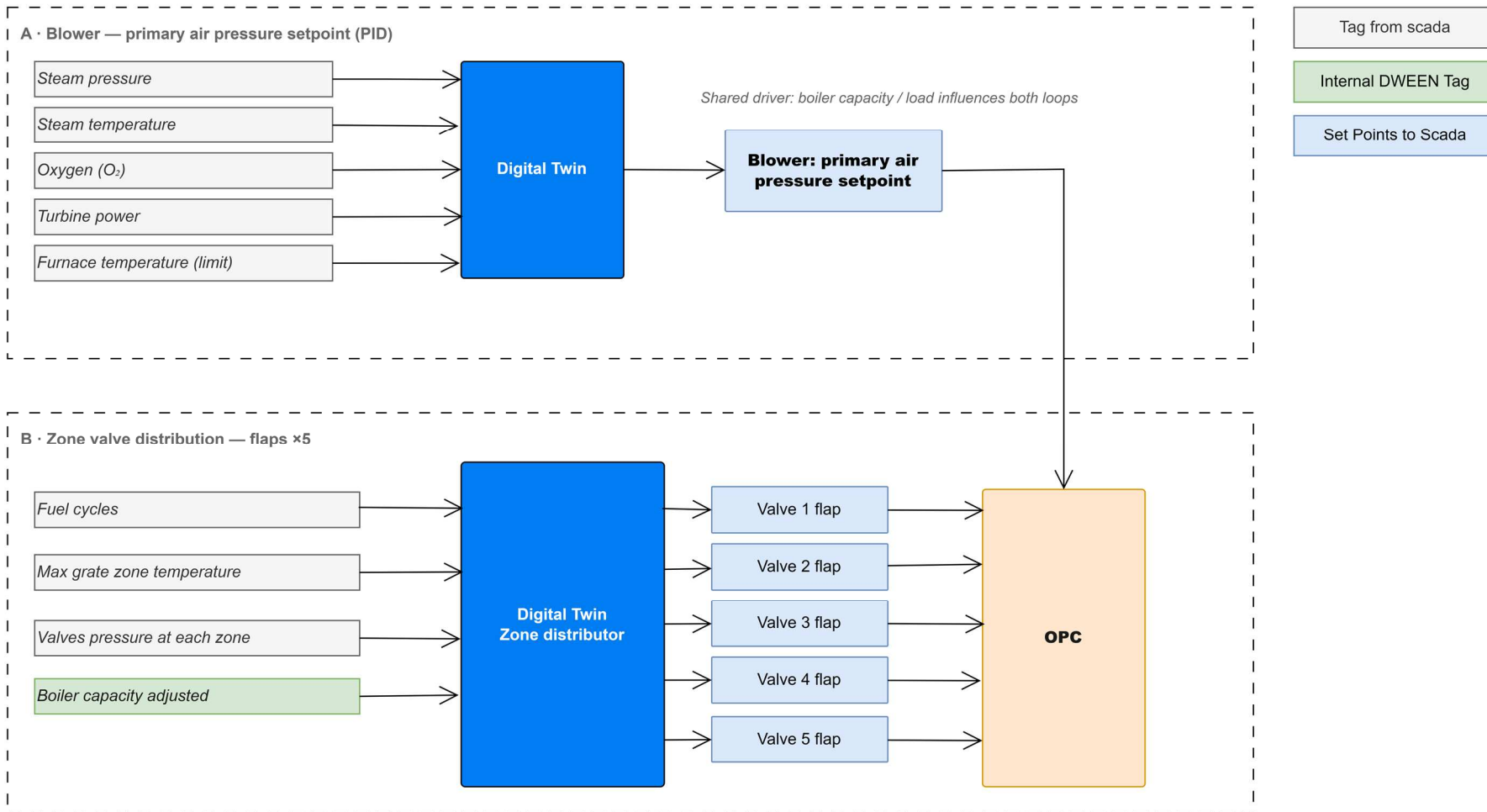
## Grate - moving speed control

A cycle = grate travels from start to end and back. Cycles/h cannot be commanded directly, so the target is converted into movement & pause durations sent to the control system.



## Primary air control

Primary air is controlled in two parallel loops: a fan setting total air, and 5 zone valves (flaps) splitting it across grate zones. Both respond to boiler capacity.



## Secondary air · Draft in furnace · Tertiary air · Power

