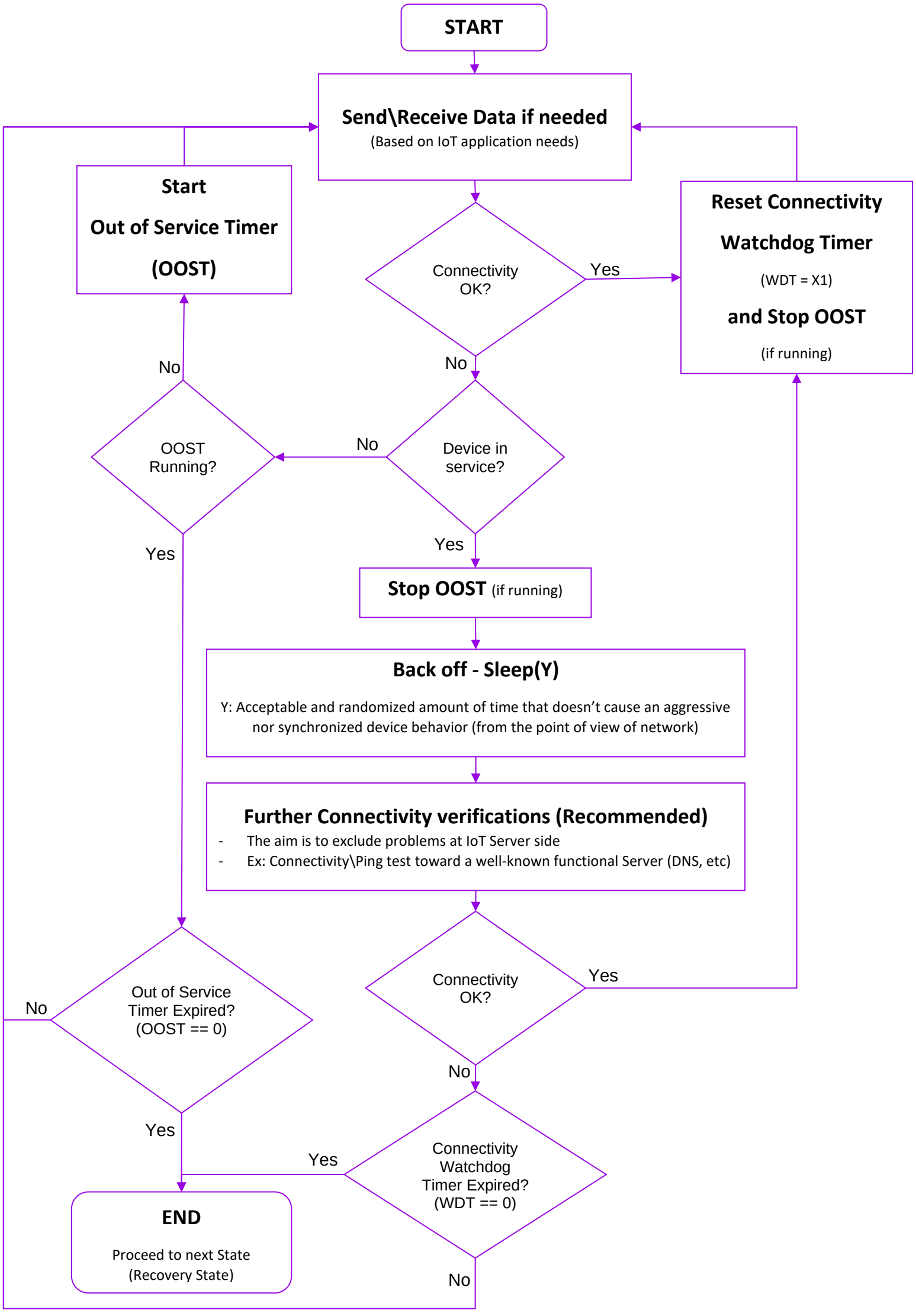
START
Send\Receive Data if needed
(Based on IoT application needs)
Start
Out of Service Timer
(OOST)
Connectivity
OK?
Yes
Reset Connectivity
Watchdog Timer
(WDT = X1)
and Stop OOST
(if running)
No
No
OOST
Running?
No
Device in
service?
Yes
Yes
Stop OOST (if running)
Back off - Sleep(Y)
Y: Acceptable and randomized amount of time that doesn't cause an aggressive nor synchronized device behavior (from the point of view of network)
Further Connectivity verifications (Recommended)
- The aim is to exclude problems at IoT Server side
- Ex: Connectivity\Ping test toward a well-known functional Server (DNS, etc)
Connectivity
OK?
Yes
No
Out of Service
Timer Expired?
(OOST == 0)
No
Yes
Yes
Connectivity
Watchdog
Timer Expired?
(WDT == 0)
END
Proceed to next State
(Recovery State)
No