HLX Source (Controlled English)
Devices • Sensors • Actuators • Timed predicates • Hysteresis • Cooldown

HLX Compiler
Parse → Type/Units Checks → Rule Lowering → Schedules/State Machines

RTOS Output (RustareeRTOS) rtos.rs

Edge/Gateway anifest (e.g., MQTT topics, deployment)

RTOS contput (Zephyr C) zephyr_main.c

W3 Web of Things Thing Description 1.1 (thing_description.json)