

Meeting Notes — Justin Kwarteng — Feb 25, 2026

| Field | Details |
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| Team Member | Justin Kwarteng |
| Progress | v0.6.2 Modular Code Cleanup: Split all monolithic source files across the project into single-responsibility modules. 4 ESP firmware projects refactored: Sensor Node (<code>main.c</code> 781→59 lines + 5 modules), GATT Gateway (<code>main.c</code> 1036→89 lines + 6 modules), Provisioner (<code>main.c</code> 868→51 lines + 5 modules), Relay Node (<code>main.c</code> 311→57 lines + 3 modules). Python gateway split from 1 file (1,722 lines) into 7 focused modules (<code>constants.py</code> , <code>ble_thread.py</code> , <code>node_state.py</code> , <code>power_manager.py</code> , <code>dc_gateway.py</code> , <code>tui_app.py</code> , <code>gateway.py</code>). Deleted 2 legacy dead-code files (<code>ble_service.c/h</code>). Zero behavior changes — all builds pass, verified on hardware, no reprovisioning needed. Also updated v0.7.0 gateway failover documentation to reference the new modular structure so future agents don't recreate monolithic files. Created changelogs for both v0.6.01 (circuit mod) and v0.6.2 (code cleanup). Tagged and pushed v0.6.2 . |
| What's for tomorrow? | Begin v0.7.0 Phase 1: Pi 5 auto-reconnect on BLE disconnect (Python-only, no firmware changes). |
| Hours worked since last meeting | 4 |
| Hurdles | Python gateway required <code>TYPE_CHECKING</code> guard in <code>power_manager.py</code> to avoid circular import with <code>dc_gateway.py</code> . <code>_HAS_TEXTUAL</code> flag had to be duplicated in <code>dc_gateway.py</code> and <code>gateway.py</code> since the textual availability check is needed in two separate modules. |
| Notes | v0.6.2 complete. 26 total module files created across 5 codebases. Largest file reduced from 1,722 lines to 540 lines. README updated to v0.6.2. All documentation in <code>Documentation/v0.6.2-classes-cleanup/</code> . Gateway code moved to <code>gateway-pi5/gateway-code/</code> . |