PID Public Transport Widget - Master Documentation

📦 Current Release: Version 5.3.4 (The "Platform Aware" Update)

Release Date: Early November 2025
Platform: iOS (Scriptable)
Status: Stable / Recommended

📝 Changelog: v4.3 → v5.3 (UI & Logic Refinement)

🎨 Major UI Overhaul: Grouped Platforms

- **Problem:** Previous versions mixed all departures into one list. At large terminals (like *Kačerov* or *Smíchovské nádraží*), it was difficult to distinguish between buses leaving from different stands (e.g., Stand A vs. Stand B).
- **Solution:** The widget now **groups departures by Platform**.
  - **Visual Change:** You will see a bold header (e.g., **"Chodovská Tvrz — A"**) followed strictly by the buses leaving from that specific platform.
  - **Benefit:** Reduces cognitive load; users know exactly where to stand.

🧠 Logic Upgrade: Platform-Specific Walking Time

- **Dynamic Walking Headers:**
  - Next to each Platform Header, the widget displays the walking time specifically for *that* platform (e.g., • 3 min walk).
  - *Note:* If the user is physically closer to Platform A than Platform B, the displayed walking times will differ accordingly.
- **Smart "Nearby" Logic:**
  - If the distance is < 50m, the text changes to **"• nearby"** instead of "1 min walk".

⚙️ Technical Additions

- **GPS Accuracy Indicator:** Added a small footer text (e.g., GPS: ±10m). This lets the user know how confident the widget is in their location, helping them judge the reliability of the walking time estimates.
- **Slimmer Dividers:** Replaced the heavy divider bars with slim, rounded indicators for a cleaner "Apple-like" aesthetic.

🧪 QA Test Plan (Version 5.3)

Pre-requisites

- **Database:** pid_stops_db.json required in Scriptable folder.
- **Location:** Best tested at a major hub with multiple platforms.

Test Suite A: Platform Logic

Objective: Verify that buses are correctly separated by their departure stand.

ID	Test Scenario	Steps to Reproduce	Expected Result
GRP-01	**Multi-Platform Hub**	1. Simulate location at a large terminal (e.g., *Kačerov*). 2. Run Widget.	The list is broken into sections. Header 1: "Kačerov — A", Header 2: "Kačerov — B".
GRP-02	**Single Stop**	1. Simulate location at a small stop.	Only one header appears. Layout remains clean.
GRP-03	**Walking Time Variance**	1. Stand closer to Platform A than B. 2. Check headers.	Platform A might say "• nearby", while Platform B says "• 2 min walk".

Test Suite B: UI & GPS

ID	Test Scenario	Steps to Reproduce	Expected Result
UI-01	**GPS Accuracy**	1. Run widget indoors (poor signal) vs outdoors. 2. Check footer.	Footer displays "GPS: ±Xm". (Value should update).
UI-02	**Badge Colors**	1. Load Metro & Bus data.	Metro badges are Green (A), Yellow (B), Red (C). Bus badges are Blue.

📜 Legacy Version History

📦 Version 4.3.6 (The "Smart Commuter" Update)

Release Date: October 2025
Status: Legacy Stable
Introduced automated "Uncatchable Bus" filtering.

Changelog

- **Walking Filter:** Automatically hides buses you can't reach based on walking speed (1.5 m/s).
- **Absolute Time:** Displays 14:35 for departures > 10 mins away.
- **Fallback Search:** Expands search radius if no stops are found initially.

📦 Version 3.3 (GPS Edition)

Release Date: August 2025
Status: Legacy
Introduced GPS-based stop detection.

Changelog

- **GPS Support:** Replaced hardcoded IDs with Location.current().
- **De-duplication:** Filters out duplicate bus entries between close stops.
- **Local Database:** Requires pid_stops_db.json.

📦 Version 2.4.2 (Stability Update)

Release Date: July 2025
Status: Legacy
Introduced Dual-Mode and Invisible Timer.

Changelog

- **Invisible Timer:** Fixed background refresh issues.
- **Dual Mode:** Split view for Medium widgets.

📦 Version 1.2 (Initial Release)

Release Date: June 2025
Status: Archived

- Static ID hardcoded in script.
- Basic list of 3 buses.