



GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF FOR-HIRE VEHICLES

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Digital Meter System Overview and Technical Requirements

The new digital meter system (DMS) is a modern flexible platform serving passengers and drivers with advanced attributes such as dynamic pricing, increased security, better transparency, and geo-location pick-up/drop-off features in addition to future digital marketplace offerings and partner services.

Purpose:

Below are minimum requirements for a digital meter system as part of digital taxicab solutions (DTS.)

Applicable Regulation:

The Department adopted a second emergency rulemaking amending Chapters 4, 5, 6, 8, 15, 20, and 99 of Title 31 of the District of Columbia Municipal Regulations (“DCMR”) on January 11, 2017. Administrative Issuance #AI-2017-07 (DTS Implementation) on February 13, 2017, provides additional guidance.

Any DMS submitted for approval by DFHV must meet the following requirements:

A. General:

1. Compatible with current and previous major release versions of Android and iOS with end-to-end security protocols including identification of data storage location(s.)
2. Compatible with major smart phone/tablet brands without additional hardware required (stand alone) and large enough for both passenger and driver to view.
3. Calculates published rates including shared ride rates, and allows dynamic pricing via discounts (up to 100%)
4. Delivers receipts via text, email, airdrop, NFC, or print for all trips (incl. e-hail) displaying DFHV trip ID, depicted navigational path (or link thereto) and receipt attributes as required by § [802](#).
5. Applicant is capable of providing training (virtual or in-person) for all drivers using system.

B. Functional:

1. Allows real-time driver authentication via DFHV supplied API.
2. Transmits meter status and data feeds per GTFS (General Transit Feed Specification,) trip id, and location on a real-time basis (incl. geo coordinates, destination, driver id, vehicle id, # of passengers, fare, time & distance) via published DFHV API.
3. Accurately calculates fare during loss of GPS signal or degradation.
4. Sets limits for maximum drivers’ hours worked with driver access to view trip and session history (min. 48 hours or longer).
5. Transmits meter status (min. hired/not hired) via Bluetooth to DFHV approved dome light.

C. Security:

1. Allows for SMS and push notification messaging from the DFHV.
2. Allows for minimum and maximum fare amount limits set remotely.
3. Has non-tampering mechanisms in place permitting only authorized DTS provider to make rate changes (via secure central access).
4. By request, provides DFHV or auditor a user-identified audit trail of rates changes.
5. Allows required notification to DFHV of all security incidents including physical and data breaches.

D. Expansion:

1. Includes integration with DC taxi app.
2. Remotely sets capabilities per vehicle via geo-fence location.
3. Provides API allowing meter integration with in-vehicle components and 3rd party applications.
4. Allows integration with multiple credit card processors and payment providers.