

**Finland-HSL: Smart card readers**  
**OJ S 126/2021 02/07/2021**  
**Contract notice – utilities**  
**Supplies**

**Legal Basis:**

Directive 2014/25/EU

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**Section I: Contracting entity**

**I.1. Name and addresses**

Official name: Helsingin Seudun Liikenne — kuntayhtymä

National registration number: 2274586-3

Postal address: Opastinsilta 6A, PL 100

Town: HSL

NUTS code: FI1B Helsinki-Uusimaa

Postal code: 00077

Country: Finland

E-mail: [hankinnat@hsl.fi](mailto:hankinnat@hsl.fi)

**Internet address(es):**

Main address: <http://www.hsl.fi>

**I.3. Communication**

Access to the procurement documents is restricted. Further information can be obtained at:

<https://tarjouspalvelu.fi/hsl?id=356148&tpk=3c84c26d-14df-441a-8dfa-0ed31b3382e1>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically via: <https://tarjouspalvelu.fi/hsl?id=356148&tpk=3c84c26d-14df-441a-8dfa-0ed31b3382e1>

**I.6. Main activity**

Recreation, culture and religion

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**Section II: Object**

**II.1. Scope of the procurement**

**II.1.1. Title**

Contactless Validator

Reference number: 248/02.08.00/2021

**II.1.2. Main CPV code**

30233300 Smart card readers

**II.1.3. Type of contract**

Supplies

**II.1.4. Short description**

Helsinki regional transport authority (HSL) is looking to procure a contactless validator, which is capable of reading and updating ISO 14443 A/B contactless travel cards (such as currently used Mifare DESFire travel cards and Mifare Ultralight single charged cards), reading 1D/2D bar codes and QR codes from mobile applications and paper tickets, and reading contactless

EMV cards and support pinless contactless payments in transit (Visa and Mastercard MTT rules). Support for Visa and Mastercard is required at the time of the deployment and support for American Express cards must be available as defined in the Invitation to Tender (ITT). Support for other payment schemes may be required during the expected lifespan of the validator.

All the deadlines specified in the invitation to tender are given in Finnish time.

See also Appendix\_1\_Subject\_Matter\_of\_the\_Procurement

See also Appendix\_2\_Requirements\_Operating\_Environment

See also Appendix\_7\_validator\_service\_process\_description

#### **II.1.5. Estimated total value**

#### **II.1.6. Information about lots**

This contract is divided into lots: no

### **II.2. Description**

#### **II.2.2. Additional CPV code(s)**

72000000 IT services: consulting, software development, Internet and support

#### **II.2.3. Place of performance**

NUTS code: FI1B Helsinki-Uusimaa

#### **II.2.4. Description of the procurement**

HSL is looking to procure a contactless validator, which is capable of reading and updating ISO 14443 A/B contactless travel cards (such as currently used Mifare DESFire travel cards and Mifare Ultralight single charged cards), reading 1D/2D bar codes and QR codes from mobile applications and paper tickets, and reading contactless EMV cards and support pinless contactless payments in transit (Visa and Mastercard MTT rules). Support for Visa and Mastercard is required at the time of the deployment and support for American Express cards must be available as defined in the ITT. Support for other payment schemes may be required during the expected lifespan of the validator.

The supplier must also provide a device management system (including a cEMV terminal management system) for the validators. The supplier must be able to provide maintenance and support for the offered validator in co-operation with third parties.

The amount of the contactless validators will be at least 4 500, depending on the future fare model that HSL is currently planning. If the fare model will require tap out validators, the total amount of validators will be higher. The decisions regarding the future fare model are planned to be made during Q4/2021. The currently used fare system is based on four zones (A, B, C and D) around the centre of Helsinki and is a tap in/check in system. The currently used validators do not support contactless EMV or reading of 1D/2D barcodes.

In addition to the actual validators, the supplier must provide two types of mounting trays that will be used to attach the validators to poles or to a wall, depending on the location. The amount of the wall mounting trays will be around 100-300 and 4200-4400 will be the amount of pole mounting trays will be 4200-4450.

The production validators should be delivered in several batches. Batch size will be 500-750 validators and the first batch should be delivered in May 2022. In more detail, the supplier must deliver the first batch of the validators (750 pcs) at the latest on 4 May 2022 and the rest of the validators in subsequent batches of 500 validators by the end of following months (30 June 2022, 31 July 2022.). All validators (4 500 pcs) must be delivered at the latest on 16 January 2023. The delivery batch sizes can be changed by +/- 200 pcs by mutual agreement.

Before the deliveries of the production validator batches, two (2) test validators must be delivered to the client for testing at the latest on 5 November 2021 and ten (10) test validators at the latest on 14.1.2022 and five (5) production validators at the latest on 14 March 2022. The contactless validators will be installed into vehicles (buses, trams, trains, ferries) and static locations (such as the metro platforms and park and ride locations). See Appendix 1 for more details.

The ticketing system that HSL is currently using is a closed loop, travel card centric system, where ticket data is stored on the travel cards and a virtual copy (image) of the card is maintained in the ticketing system. The virtual image is updated in near real time, based on the card usage. To prevent unauthorized updates and securing confidential customer data, the travel cards are secured with cryptographic keys. The new validator will replace the existing validators gradually during the installation period.

The currently used ticketing system will be replaced in the following years with a new, account based open loop ticketing system (ABT), where ticket data/travel rights are stored in the ticketing system and not on travel cards anymore. Travel rights are checked online when the passenger uses an ID media (eg. mobile app, cEMV card, travel card). Development of the ABT has started in May 2021 and most of its functionalities are planned to be available in Q2 /2023.

All the deadlines specified in the invitation to tender are given in Finnish time.

See also Appendix\_1\_Subject\_Matter\_of\_the\_Procurement

#### **II.2.5. Award criteria**

Criteria below

Quality criterion - Name: Quality / Weighting: 20

Price - Weighting: 80

#### **II.2.6. Estimated value**

#### **II.2.7. Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 48

This contract is subject to renewal: yes

Description of renewals:

The main agreement shall remain valid for a fixed term of four (4) years 'Fixed- term Duration'.

After the fixed term the main agreement shall remain valid for indefinite time until terminated by the client upon six (6) months' prior written notice or by the supplier upon twelve (12) months' prior written notice.

Described in more detail in the Main Agreement\_Draft

#### **II.2.10. Information about variants**

Variants will be accepted: no

#### **II.2.11. Information about options**

Options: yes

Description of options:

Described in Appendix\_4\_Prices and Appendix\_1\_Subject\_Matter\_of\_the\_Procurement

#### **II.2.13. Information about European Union funds**

The procurement is related to a project and/or programme financed by European Union funds:  
no

#### **II.2.14. Additional information**

## Section IV: Procedure

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### IV.1. Description

#### IV.1.1. Type of procedure

Open procedure

#### IV.1.3. Information about a framework agreement or a dynamic purchasing system

#### IV.1.8. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: yes

### IV.2. Administrative information

#### IV.2.2. Time limit for receipt of tenders or requests to participate

Date: 27/08/2021 Local time: 14:00

#### IV.2.3. Estimated date of dispatch of invitations to tender or to participate to selected candidates

#### IV.2.4. Languages in which tenders or requests to participate may be submitted

English, Finnish

#### IV.2.6. Minimum time frame during which the tenderer must maintain the tender

Duration in months: 12 (from the date stated for receipt of tender)

#### IV.2.7. Conditions for opening of tenders

Date: 27/08/2021 Local time: 14:15

## Section VI: Complementary information

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### VI.1. Information about recurrence

This is a recurrent procurement: no

### VI.2. Information about electronic workflows

Electronic invoicing will be accepted

### VI.3. Additional information

This notice has links and/or attachments listed in <https://www.hankintailmoitukset.fi/en/public/procurement/55756/notice/77854>

### VI.4. Procedures for review

#### VI.4.1. Review body

Official name: Markkinaoikeus

Postal address: Radanrakentajantie 5

Town: Helsinki

Postal code: 00520

Country: Finland

E-mail: [markkinaoikeus@oikeus.fi](mailto:markkinaoikeus@oikeus.fi)

Telephone: +358 295643300

Internet address: <http://www.oikeus.fi/markkinaoikeus>

#### VI.5. Date of dispatch of this notice

28/06/2021

