



Request for Proposal

CPE Procurement

SSA-T / SSA-V, Appendix 1 Annex 3

Definitions and Abbreviations

Version log

| Version | Initials | Date | Comments/amendments |
|---------|----------|------------|------------------------------|
| 1.0 | KIV | 18.03.18 | Initial version |
| 1.1 | DIK | 18.10.2019 | Part of the Tender documents |

| Abbreviation | Description |
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| ACFC | AutoPASS Collection and Forwarding Central - Communication Center (IT system) that acts as a collaborative point for AutoPASS Coordinated Payments. |
| ANPR | Automatic Number (or License) Plate Recognition. The process of automatically identifying license plates. NOTE: The term "ANPR Accepted" is used in AutoPASS. This is the rate of correct reading of license plates. This is also known as the OCR hit rate. |
| AutoPASS | The Norwegian community/system for electronic road tolling. |
| AutoPASS Agreement | An agreement signed by an end customer (road user), which confirms the usage of an AutoPASS OBU/OBE and gives the right to rebates. |
| AutoPASS Contractual framework | A suite of contracts and rules regulating the rights, mutual obligations, roles and responsibilities, tasks and the daily operation of the AutoPASS system. |
| AutoPASS Coordinated Payments (AutoPASS Samordnet Betaling) | Collaboration between operators and issuers within the Norwegian road user payment area (toll domain). |
| AutoPASS Customer | A chargeable end customer (road user) who has NOT entered into an AutoPASS Agreement, and hence does not carry an OBU in the vehicle. Tolling is carried out based on ANPR. |
| AutoPASS OBU Customer | An end customer (road user) who has signed an AutoPASS Agreement with an AutoPASS TSP. |
| AutoPASS Ferry | A ferry crossing enabling the ferry payment to be done based on an AutoPASS agreement. |
| AutoPASS HUB | The AutoPASS HUB responsible for all interoperability to, from and within the AutoPASS community. Part of the system that is due to replace CSN. In development as of 2018. |
| AutoPASS IP | The AutoPASS component responsible for Identification and Pricing of a passage. Part of the system that is due to replace CSN. In development as of 2018. |
| AutoPASS Passage | Passing through a charging point where AutoPASS agreement and OBU are used as the means of payment. |
| AutoPASS Service (AutoPASS-tjenesten) | Transport and payment service offered in cooperation between the infrastructure owner (offering the transport service), the Toll Charger (TC) and the provider of TSP (Toll Service Provider) services (offering the payment service). |
| AutoPASS TC | AutoPASS Toll Charger. One of the five RBPS' |
| AutoPASS TSP | AutoPASS Toll Service Provider - Issuer of the OBU. |

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| Autosys | The national register containing all vehicle and owner information - The Norwegian national vehicle database. Handles the registration and approval of vehicles. |
| Charging Area | Roadway area subject to tolling in tolling direction. |
| Charging Point | The term used for toll station in the ISO 17573 standard. |
| Charging Point Equipment | See RSE. |
| COTS | Commercial Off The Shelf. A term used to describe the use of packaged solutions which are then adapted to satisfy the needs of the purchasing organisation, rather than the commissioning of custom made, or bespoke solutions. |
| CP | See Charging Point. |
| CPE | Charging Point Equipment. |
| CS Norge (CS or CSN) | Central System Norge delivered by Q-Free AS to SVV. This is the system that is operational in 2018. |
| Detection Area (Detection Zone) | Area of vehicle detection at CP. |
| DSRC | Dedicated Short Range Communication. Radio communication specially designed for electronic free flow toll collection. Used in the communication between the RSE and OBU. |
| EasyGo | The interoperability standard used in the Nordic countries, the collaboration is between toll companies in Norway, Sweden, Denmark and Austria (in part) that enables toll payment within an entire area using only one OBU and one agreement. |
| EasyGo HUB | EasyGo HUB is the HUB handling all interoperability to and from EasyGo TCs and TSPs. |
| EETS | European Electronic Toll Service. European interoperability standards that describe the roles of operators and issuers. |
| Functional unit | A delivery unit in the SSA-T agreement which can be tested in its entirety as a self-contained unit. |
| HSM | Hardware Security Module |
| Idporten | IDporten, the Norwegian national portal connecting to different authentication services. |
| Integrated issuer (integrert utsteder) | An issuing company that is part of a regional or local toll charger. |
| Interoperability | The process of exchanging information (including OBU status lists and toll transactions) with other operators and issuers. |
| Issuer (TSP, utsteder) | A company that enters into contracts with customers and issues OBUs. Organization that issues agreements and OBUs to users of toll roads, and is responsible for payment from passages. The Issuer acts as an intermediary between all toll companies and the end users / users. See also "TSP". |
| LPN | License Plate Number. |
| MCC | Monitoring and Control Centre. |
| MCS | Monitoring and Control System. |
| MIR (manuell bildebehandling) | Manual Image Recognition. |
| MMI | Man-Machine Interface. In AutoPASS this means the use of the acoustic buzzer in the OBU. Can be used to confirm an OBU reading to the driver when passing through a CP. |
| MTTR | Mean Time To Repair. |

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| NVDB | Nasjonal Vegdatabank - National road database - Contains information regarding Norwegian public roads. http://www.vegvesen.no/fag/teknologi/Nasjonal+vegdatabank |
| OBE / OBU (brikke) | On-Board Unit/On Board Equipment. An electronic device placed in the vehicle that communicates with the roadside equipment at the tolling stations to detect passages. Also referred to as tag or transponder. |
| OCR | Optical Character Recognition Note: Should NOT be used as a synonym ANPR. |
| Operator (operatør) | A company that operates road tolling. A defined role in the collaboration associated with companies who are responsible for collection of payments for use of infrastructure or transport services. |
| Passage | The information sent from roadside to AutoPASS IP of a registered passage taking place on the roadside. |
| Q-Free | The Norwegian company that operates the current central system in Norway. Q-Free also provides OBUs and roadside equipment. |
| RBPS (regionalt bompengeSelskap) | Regionalt BomPengeSelskap - The TC responsible within a region in Norway. |
| Roadside (Vegkant) | Referring to equipment and systems placed at tolling stations (as in roadside equipment or roadside system). |
| RSE (veikantutstyr) | Road Side Equipment - Equipment mounted at a collection point to communicate with the AutoPASS OBU and retrieve other information needed to handle users both with and without AutoPASS OBU or chip/card. |
| RTTT | Road Traffic and Transport Telematics |
| Service company (driftsoperatør) | A company that handles operations and customer services for toll companies. (Sometimes referred to as a service provider but this can be confused with Toll Service Provider and should be avoided.) |
| Service users | End customers. Typically, but not necessarily the vehicle owners. |
| Statens vegvesen (SVV - NPRA) | The Norwegian Public Roads Administration that owns the central system for toll collection and the AutoPASS specification. |
| Toll Charger (TC) (bompengeSelskap) | The term used for operator in the ISO 17573 standard. An organization that is entitled - and has exclusive right - to collect user charges (toll) from users of a specific infrastructure (tunnel, bridge, road, road network, etc.). |
| Toll System | System for charging for road usage. |
| Transaction | The information sent from AutoPASS IP of an enforceable passage. The transaction is sent to the TC and TSP responsible for enforcement of the payment. In the CSN environment, the term "Transaction" is also used for the data transferred from the RSE to CSN. In the HUB/IP environment this data transfer is named the "Passage". |

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| TSP | Toll Service Provider - The term used for issuer in the ISO 17573 standard. See also "Issuer". |
| Users | System users or system administrators of the AutoPASS system. |
| Vehicle image (kjøretøybilde) | An image taken at the charging point which includes the vehicle and the number plate, and thereby documents the passage of the vehicle. |
| Vehicle passage data (kjøretøypasseringsdata) | The collection of data for a vehicular passage, consisting of a transaction and a picture. |
| Vehicle register | See Autosys. |
| VMS | Variable Message Sign. The electronic sign showing passage prices next to a toll station. |