



AP-1.2A

AutoPASS Data Formats Overview

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4.3 - AutoPASS Data Formats Overview

DOCUMENT STATUS

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| Version | Date | Author | Main changes |
|---------|------------|--|--|
| 1.0 | 08.10.2019 | Statens vegvesen/ NPRA | New document. Part of 4.3 AutoPASS Data Formats |
| 1.01 | 08.03.2023 | Statens vegvesen/ Norwegian Public Roads Administration | Removed HGV, HGC, NSL, NAT and NAC. HGV and HGC moved to AP-3.1 Removed content on EasyGo HUB and ACFC. |
| | | | |

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1 About this document

This document is the main document for all information exchange between the different system solutions for toll charge collection in Norway.

The document describes what information is exchanged and refers to all other relevant documents.

Detailed information about specific specifications are found in **AP-1.2B/4.3 AutoPASS Data Formats Appendixes**

Please note:

This document will be gradually phased out. When updated, individual formats will be moved to new documents in the AP-3 series.

All AP- series documents can be found here:

<https://www.autopass.no/en/toll-sector/technical-equipment-requirements-in-autopass-samvirke/>

|

2 General system overview

The figure below illustrates AutoPASS community. Red arrows indicate flow of information/data

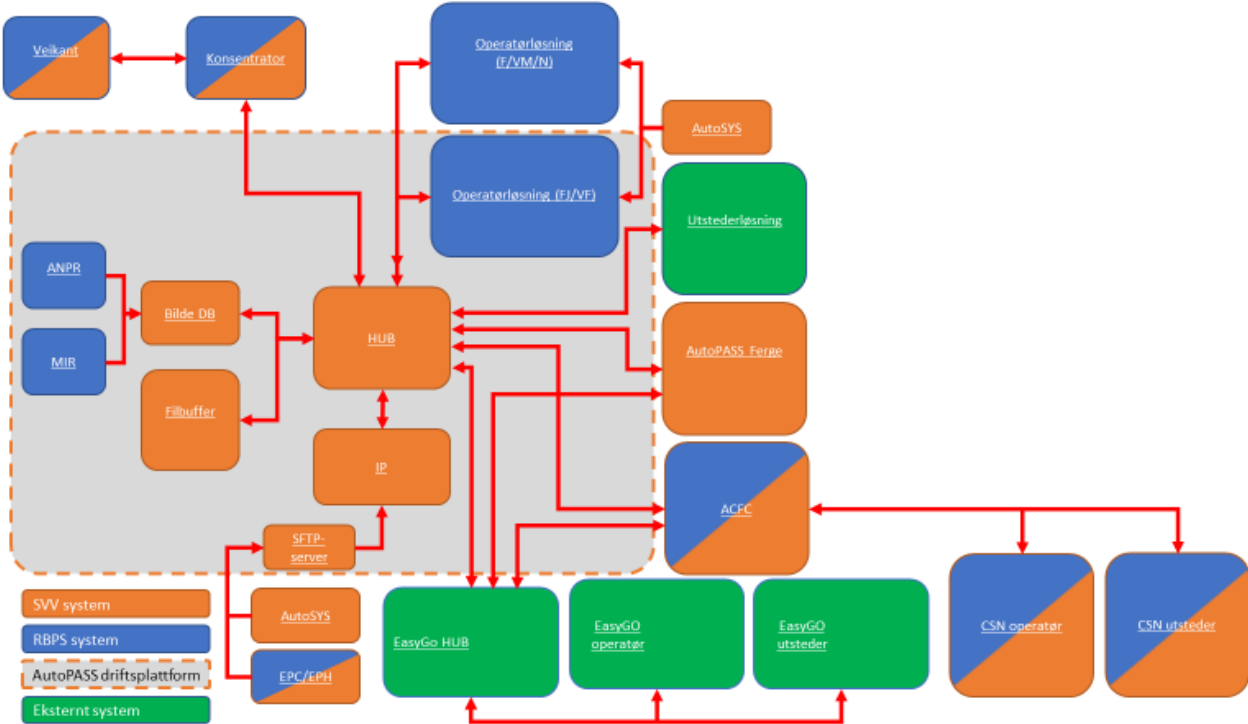


Fig. 1 Flow of information/data

3 General rules

The following general rules for data definition apply:

Character format in all files is ISO 8859-1.

The format of each record is described below.

At the end of each line a LF used. (Based on ANSI (Windows-1252))

The data formats are either numerical (Numeric) or alpha-numerical (AlphaN):

- AlphaN (aligns left with blanks at right) will be filled with blanks if no value. (For some fields it is required to fill with zero according to spec, even when AlphaN)
- Numerical (align right with zeros at left) are filled with zeros if no value
- Fields marked as filler reserved for future use can be filled with zeros as specified regardless of field type
- If the field is a date field it shall be filled with a date according to specification, or filled with zeros

All major data is exchanged through files containing lists of data.

Each file, except files to/from Roadside, contains:

- One header record with information regarding receiver, sender, list name and number of records in the body
- An unlimited number of body records with detailed record information
- One footer record ends the list and with information of sum of records in body when relevant

The file name is a combination of the list name or part of it. The name of the receiver is included when necessary to ensure the unique identity or to ease the communication between Toll Charger (TC) and Toll Service Provider (TSP).

4 Brief information regarding existing formats

Most of the formats are described in two documents, 4.3 AutoPASS Data Formats Appendixes and EasyGO document 203. These two documents do have an overlap when it comes to definitions of the same formats. This is due to the fact that EasyGo is a joint venture between several countries, and most of these formats are also used by the Norwegian AutoPASS community. Some formats may differ between the two specification, but AutoPASS Data Formats always prevail.

[EasyGO document 203 – Technical requirements data format and interface specifications, can be found here.](#)

4.1 Brief information about the different formats

ACT (Actor table)

Contains information about all actors in AutoPASS and the EasyGo partnership (TC and TSP).
Example of information in this table: Actor ID, Actor name, Address, Phone, IBAN / BIC.
Data is maintained at AutoPASS IP and in the EasyGo partnership.

AutoPASS specification is equal to the EasyGo specification on this format.

TST (Toll station table)

Contains information about all the toll stations in AutoPASS and the EasyGo partnership.
Example of information: Actor ID, Actor name, Location names.
Data is maintained at AutoPASS IP and in the EasyGo partnership.

AutoPASS specification is equal to the EasyGo specification on this format.

AIT (Accepted issuer table) - Roadside

Contains information about valid issuers and tag series.
Data is maintained by NPRA and in the EasyGo partnership.

AutoPASS specification is equal to the EasyGo specification on this format.

OBE status file (NSL) - Roadside

Contains information about valid Norwegian contracts.
This format is a simpler version of the whitelist (HGV) for use at the roadside.
Example of data in the table: Tag number, registration number.
The file is generated at AutoPASS NK.

Tariff-fil / Price file - Roadside

Contains prices, opening hours / days.
Used primarily to display the right price on VMS signs at the roadside.
The file is generated at AutoPASS IP.

Transaction-file - Roadside

Contains information about registered passages from one or more toll stations.
The file is generated at the roadside.

Picture-file - Roadside

Contains images related to the passages in the Transaction-file.
The file is generated at the roadside. Each picture is a separate file.

Picture-Text file - Roadside

Contains explanation of the different signal codes.
This information is added to the image (Picture-file) on the roadside.
The file is generated by NPRA and distributed to roadside suppliers.

Exception Messages - Roadside

Contains information with exception messages from the roadside.
The file is generated at the roadside.

TIF (Transit information file)

Contains information about transactions (passages) with vehicle/passage/price-data.
Example of data in the table: Actor ID, Tag number, Toll Station/Lane.
The file is generated at AutoPASS IP for AutoPASS, at EasyGo TC for EasyGo transactions at "Sentral Tjenestetilbyder for ferger" for Norwegian ferry transactions and at Operator solutions for Toll Collectors not connect to AutoPASS IP.

Whitelist (HGV)

Contains information about customers / vehicles that have a contract with an issuer.
Example of data in the table: Actor ID, Tag number, Vehicle Group, Euro Class.
New contracts, not valid contracts as well as changes to contracts are managed by TSP.
The file is generated by each TSP.

Whitelist complete (HGVC)

Same as Whitelist (HGV) but Contains all valid AutoPASS and EasyGO contracts. The file may be both complete or incremental. The files are generated by AutoPASS NK.

NAT (Not accepted table, Black list)

Blacklist is generated by each TSP and forwarded to EasyGo HUB or any other recipient. This list contains all non valid AutoPASS tags.
Managed by each TSP

ALM (Alarm Format)

Contains information about alarms from AutoPASS IP, Roadside, EasyGo HUB and AutoPASS HUB

5 Appendix overview

| Appendix A-series (AutoPASS HUB formats) | | |
|--|----------------|--------------------------|
| Appendix name | Format name | Information |
| A1 - ACT Format | ACT | |
| A2 - TST Format | TST | |
| A3 - AIT Format | AIT | |
| A4 - Whitelist Format | HGV, HGC, HGVC | HGC is confirmation file |
| A5 - OBUSatus File | NSL | |
| A6 - Blacklist Format OBSOLETE | NAT, NOC | HOC is confirmation file |
| A7 - TIF & TIC Format | TIF, TIC | TIC is confirmation file |
| A8 - Transaction File | | |
| A9 - Picture File | | |
| A10 - Picture Text File | | |
| A11 – Tariff File | | |
| A12 - Exception Messages | | |
| A13 - Alarm Messages | ALM, ALC | ALC is confirmation file |

| Appendix B-series (Tables) | | |
|----------------------------|-------------|-------------|
| Appendix name | Format name | Information |
| B1 - Tables | | |
| | | |

| Appendix C-series (Other formats and specifications) | | |
|--|-------------|--|
| Appendix name | Format name | Information |
| C1 – Service layer Interface & Format | | |
| C2 – KDF & KDC Format | KDF, KDC | -See doc. 4.5 – Security Architecture for AutoPASS |
| C3 – OBU Statuslist (CS Norge) | NBS, NBR | - |
| C4 – ACFC specification (CS Norge) | - | - |
| C5 – Image processing supplier specification | | |
| C6 – Transaksjonsformat 4.3 for Ferry | | Draft |

6 Overview of changes

7 Distribution and handling

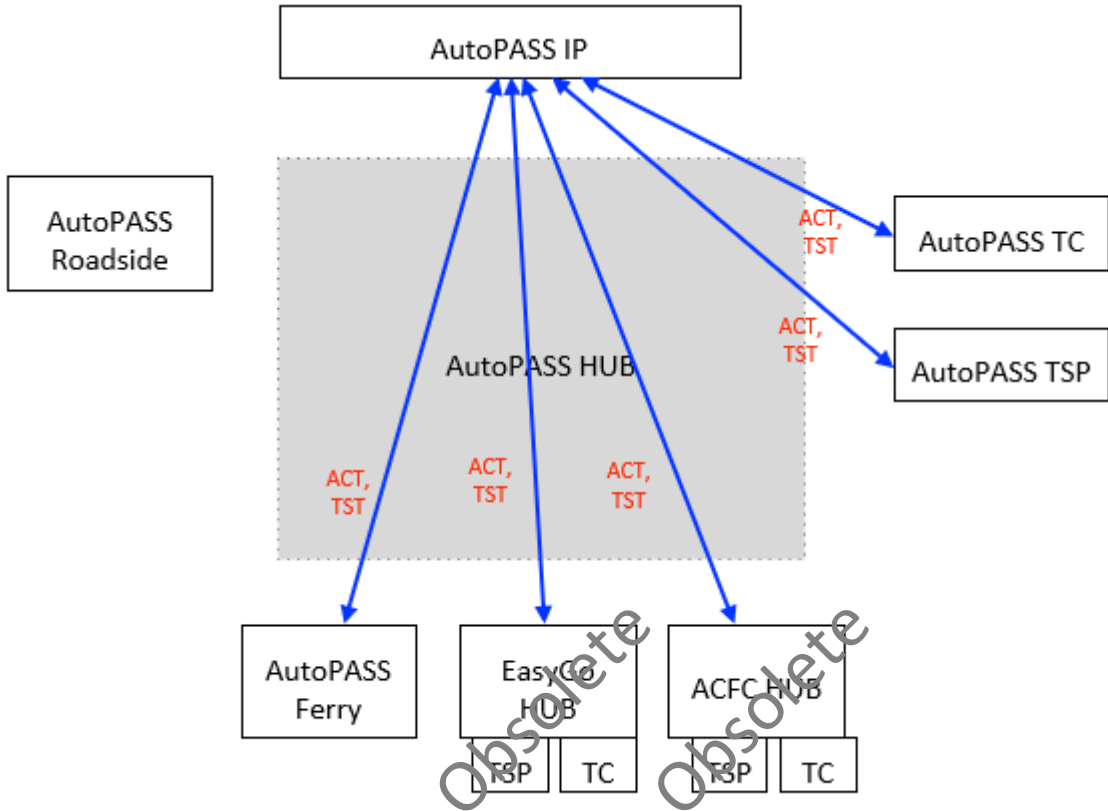
7.1 Information about ACT and TST

AutoPASS IP receives the ACT and TST files from the EasyGo HUB through the AutoPASS HUB when any information about the actors or toll stations changes. These files include information about all EasyGo actors, including the AutoPASS actors. AutoPASS IP contains master data for the AutoPASS actors, and should not update the information for the AutoPASS actors based on the file from EasyGo.

AutoPASS IP must process these files from EasyGo and update information about the EasyGo actors in AutoPASS IP. It should also process the information about the AutoPASS actors and create an alert in case there is a mismatch between the information in the received files and the information in AutoPASS IP.

All TSP not connected to EasyGO HUB must connect to AutoPASS HUB and send necessary information used in ACT to AutoPASS IP

Finally AutoPASS IP must generate an updated ACT and TST file and distribute to the all actors (including EasyGO)



7.2 Information about Whitelist (NSL, HGV and HGC)

AutoPASS NK generates NSL-files that contain all valid AutoPASS contracts.

Information on HGV and HGC has been moved to document AP-3.1

All the documents in the AP-series can be found on:

<https://www.autopass.no/en/toll-sector/technical-equipment-requirements-in-autopass-samvirke/>

Replaced by AP-3.1

7.3 Information about Blacklist (NAT and NAC)

Blacklists are no longer in use in AutoPASS.

Obsolete

7.4 Information about Transaction files (TIF, TIC, transaction files)

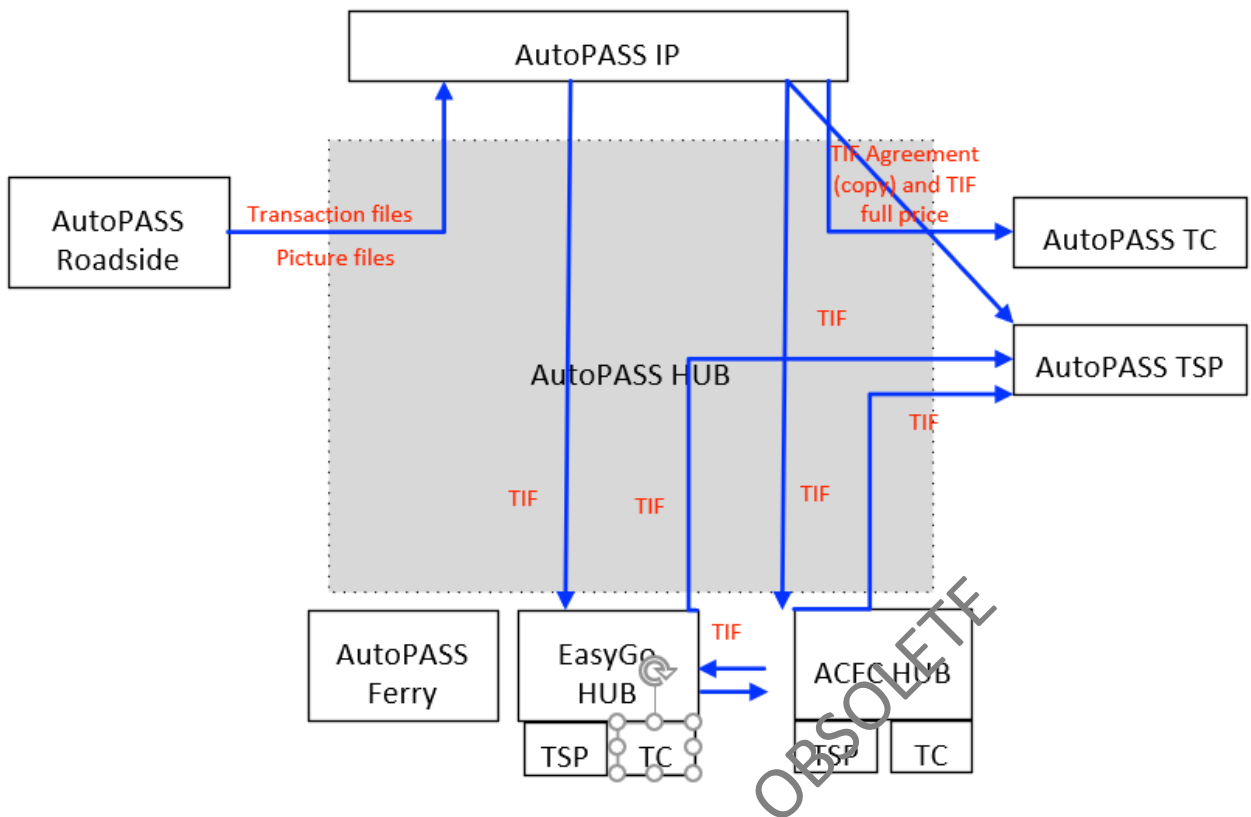
AutoPASS IP receives Transaction-files from Roadside with passage information details.

AutoPASS IP send a TIF file/message to correct recipient (actor) for further handling of the transaction.

AutoPASS IP send a copy of the TIF file/message sent to TSP to the TC that owns the toll project.

AutoPASS IP send a TIF file/message to the TC that owns the toll project for further handling of non-agreement transactions.

Receipts (TIC files) are always sent in opposite direction of TIF files.

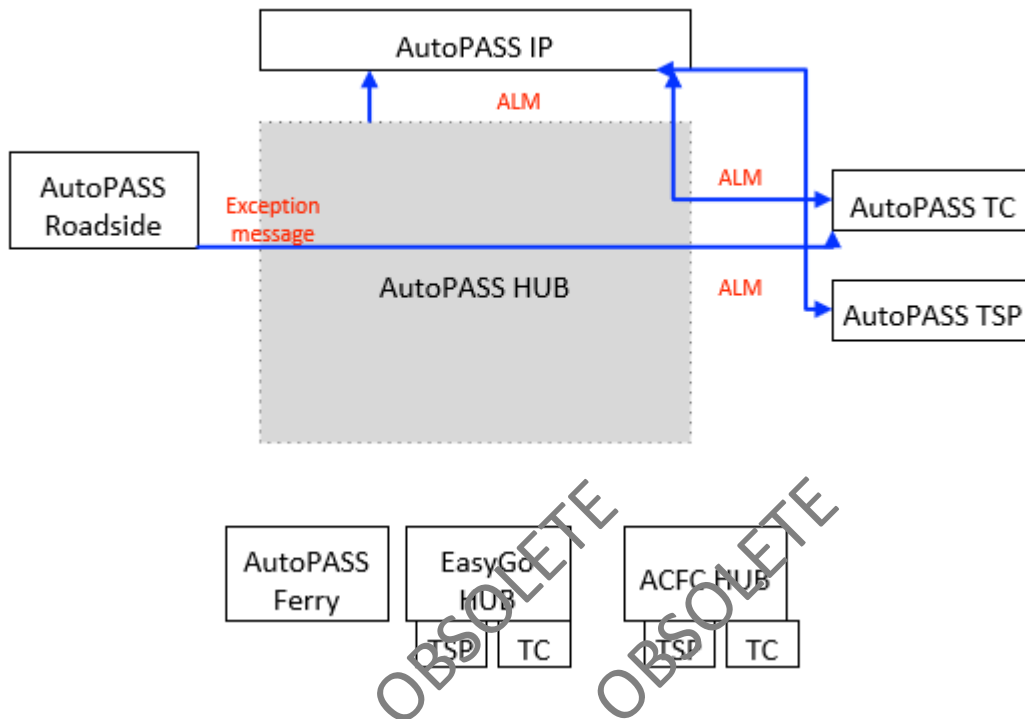


7.5 Information about Alarms/Event messages (ALM, ALC)

AutoPASS IP is the alarm/event-messages central and receives and stores all ALM-messages from all actors. AutoPASS IP sends messages on all important events and alerts according to the alarm table.

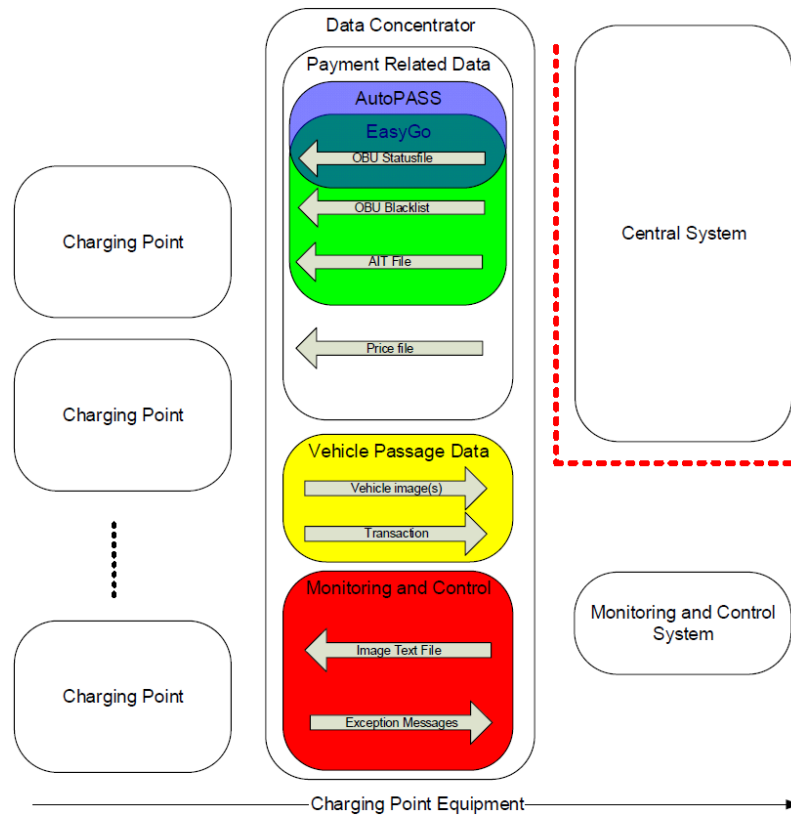
Messages may cause AutoPASS IP to start / stop processes.

Receipts (ALC files) are always sent in opposite direction of ALM files.



8 Roadside

Interface specification



Main entities and modules within an AutoPASS Toll System

To the right of the dotted line is the Toll Charger's Central System which is used for registering the toll based on the Vehicle Passage Data. Claims for AutoPASS OBU Customers' passages are then sent to the specific Toll Service Provider.

The other main entity that is part of this specification is the Monitoring and Control System (MCS). The MCS is used for automatic monitoring, control of, and for maintaining the Charging Point Equipment. The MCS shall also offer a service to be used by the customer and Toll Charger for monitoring and controlling the Charging Point Equipment.

The information provided in the interface is split into the types listed in table below. The full details and format of the data exchange is described in this document. Should the Toll System only consist of one CP the Data Concentrator may be a part of the equipment located at the CP.

Brief description of the data content in the information flow between the Roadside and AutoPASS HUB

| Type | Overall description | Information flow | General description |
|------------------------|---|------------------------|--|
| Payment Related Data | Covers information about the validity of the OBU and OBU Toll Service Providers that supports the system. | AIT file | List of OBU Toll Service Providers that are accepted within the AutoPASS system. |
| | | OBU Status File (NSL) | A whitelist used at Roadside that gives status about the On Board Unit |
| | Used for control of variable message signs | Price File | Covers information about hours with toll for the CP and the toll for the vehicle classes. |
| Vehicle Passage Data | Covers information about the payment at the CP. | Transaction File | Detailed information about the payment passage. Used for carrying various other kind of information related to passages. |
| | | Vehicle Image(s) | JPEG compressed Vehicle Images for the vehicle passage. Mainly used for charging by LPR. |
| Monitoring and Control | <i>Text that shall be provided in the Vehicle Images.</i> | <i>Image Text File</i> | <i>Distributed to Road Side Suppliers by NPRA</i> |
| | Equipment/system information | Exception Message | Report of an event on roadside. |

8.1 Format specifications - Roadside

| ID | TO | FROM | FORMAT NAME | VIA HUB | FORMAT SPECIFICATION |
|----|----------|------------------|-----------------------------|--------------|------------------------------|
| 1F | Roadside | AutoPASS IP | Tariff-fil / Price file | AutoPASS HUB | Appendix A11 - Tariff File |
| 2F | Roadside | AutoPASS IP | NSL (OBE status file) | AutoPASS HUB | Appendix A5 - OBUStatus File |
| 3F | Roadside | AutoPASS IP/NPRA | AIT (Accepted issuer table) | AutoPASS HUB | Appendix A3 - AIT Format |
| | | | | | |
| | | | | | |

| ID | TO | FROM | FORMAT NAME | VIA HUB | FORMAT SPECIFICATION |
|----|-------------|----------|--------------------|--------------|-----------------------------------|
| 1T | AutoPASS IP | Roadside | Transaction file | AutoPASS HUB | Appendix A8 - Transaction File |
| 2T | AutoPASS IP | Roadside | Picture file | AutoPASS HUB | Appendix A9 - Picture File |
| 3T | AutoPASS IP | Roadside | Exception Messages | AutoPASS HUB | Appendix A12 - Exception Messages |
| | | | | | |
| | | | | | |

9 AutoPASS Toll Collector (TC)

Brief description of the data content in the information flow between the TC's and AutoPASS HUB

| Type | Overall description | Information flow | General description |
|------------------|---|------------------|---|
| Transaction Data | Covers information about the transaction and price. | TIF | Contains information about transactions (passages) with vehicle/passage/price-data. |
| Information Data | Covers information about Actors, Toll Plazas and system information | ACT | List of all the actors in AutoPASS and the EasyGo partnership. |
| | | TST | List of all the toll stations in AutoPASS and the EasyGo partnership |
| | | ALM | Report/alarm of an event in AutoPASS IP, EasyGo HUB, AutoPASS HUB |

9.1 Format specifications – TC

| ID | TO | FROM | FORMAT NAME | VIA HUB | FORMAT SPECIFICATION |
|----|-------------|-------------|-------------|--------------|--------------------------------|
| 1F | AutoPASS TC | AutoPASS IP | TIF | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 2F | AutoPASS TC | AutoPASS IP | TST | AutoPASS HUB | Appendix A2 - TST Format |
| 3F | AutoPASS TC | AutoPASS IP | ACT | AutoPASS HUB | Appendix A1 - ACT Format |
| 4F | AutoPASS TC | AutoPASS IP | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 5F | AutoPASS TC | AutoPASS IP | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
| | | | | | |
| | | | | | |

| ID | TO | FROM | FORMAT NAME | VIA HUB | FORMAT SPECIFICATION |
|----|-------------|-------------|-------------|--------------|--------------------------------|
| 1T | AutoPASS IP | AutoPASS TC | TIC | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 2T | AutoPASS IP | AutoPASS TC | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 3T | AutoPASS IP | AutoPASS TC | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| | | | | | |
| | | | | | |

10 AutoPASS Toll Service Provider (TSP)

Brief description of the data content in the information flow between the TSP's and AutoPASS HUB

| Type | Overall description | Information flow | General description |
|------------------|---|------------------|---|
| Contract Data | Covers information about Contracts | Whitelist/HGV | Contains information about customer / vehicle that have a contract with an issuer. Used to update records in the complete whitelist/register in AutoPASS IP |
| Transaction Data | Covers information about the transaction and price. | TIF | Contains information about transactions (passages) with vehicle/passage/price-data. |
| Information Data | Covers information about Actors, equipment and system information | ACT | List of all the actors in AutoPASS and the EasyGo partnership. |
| | | TST | List of all the toll stations in AutoPASS and the EasyGo partnership |
| | | AIT | List of OBU Toll Service Providers that are accepted within the AutoPASS/EasyGo system. Managed by NPRA |
| | | ALM | Report/alarm of an event in AutoPASS IP, EasyGo HUB, AutoPASS HUB |

10.1 Format specifications – TSP

| ID | TO | FROM | FORMAT NAME | VIA HUB | FORMAT SPECIFICATION |
|----|--------------|-------------|-------------|-----------------|--------------------------------|
| 1F | AutoPASS TSP | AutoPASS IP | TIF | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 2F | AutoPASS TSP | EasyGo TC | TIF | AutoPASS/EasyGo | 203 |
| 3F | AutoPASS TSP | ACFC TC | TIF | AutoPASS/ACFC | Appendix A7 - TIF & TIC Format |
| 4F | AutoPASS TSP | AutoPASS IP | TST | AutoPASS HUB | Appendix A2 - TST Format |
| 5F | AutoPASS TSP | AutoPASS IP | ACT | AutoPASS HUB | Appendix A1 - ACT Format |
| 6F | AutoPASS TSP | AutoPASS IP | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 7F | AutoPASS TSP | AutoPASS IP | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
| | | | | | |
| | | | | | |

| ID | TO | FROM | FORMAT NAME | VIA HUB | FORMAT SPECIFICATION |
|----|-------------|--------------|-----------------|-----------------|--------------------------------|
| 1T | AutoPASS IP | AutoPASS TSP | TIC | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 2T | EasyGo TC | AutoPASS TSP | TIC | AutoPASS/EasyGo | 203 |
| 3T | ACFC TC | AutoPASS TSP | TIC | AutoPASS/ACFC | Appendix A7 - TIF & TIC Format |
| 4T | AutoPASS IP | AutoPASS TSP | Whitelist (HGV) | AutoPASS HUB | Appendix A4 - Whitelist Format |
| 5F | AutoPASS IP | AutoPASS TSP | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 6F | AutoPASS IP | AutoPASS TSP | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| | | | | | |
| | | | | | |

11 AutoPASS IP

Brief description of the data content in the information flow to/from AutoPASS HUB

| Type | Overall description | Information flow | General description |
|------------------|---|-----------------------|---|
| Contract Data | Covers information about Contracts | Whitelist/HGV | Contains information about customer / vehicle that have a contract with an issuer. Used to update records in the complete whitelist/register in AutoPASS IP |
| | | OBU Status File (NSL) | A whitelist used at Roadside that gives status about the On Board Unit (OBU) |
| Transaction Data | Covers information about the transaction and price. | Transaction file | Detailed information about the payment passage. Used for carrying various other kind of information related to passages. |
| | | TIF | Contains information about transactions (passages) with vehicle/passage/price-data. |
| Information Data | Covers information about Actors, equipment and system information | ACT | List of all the actors in AutoPASS and the EasyGo partnership. |
| | | TST | List of all the toll stations in AutoPASS and the EasyGo partnership |
| | | Price File | Covers information about hours with toll for the CP and the toll for the vehicle classes. |
| | | Exception messages | Report of an event on roadside. |
| | | ALM | Report/alarm of an event in AutoPASS IP, EasyGo HUB, AutoPASS HUB |

11.1 Format specifications – AutoPASS IP

| ID | TO | FROM | FORMAT NAME | VIA HUB | FORMAT SPECIFICATION |
|-------|-------------------|------------------|-------------------------|----------------------|--------------------------------------|
| 1F/T | Roadside | AutoPASS IP | Tariff-fil / Price file | AutoPASS HUB | Appendix A11 - Tariff File |
| 2F/T | Roadside | AutoPASS IP | NSL (OBE status file) | AutoPASS HUB | Appendix A5 - OBUSstatus File |
| 2F/T | AutoPASS IP | Roadside | Transaction file | AutoPASS HUB | Appendix A8 - Transaction File |
| 3F/T | AutoPASS IP | Roadside | Picture file | AutoPASS HUB | Appendix A9 - Picture File |
| 5F/T | AutoPASS IP | Roadside | Exception Messages | AutoPASS HUB | Appendix A12 - Exception Messages |
| 6F/T | AutoPASS TC | AutoPASS IP | TIF | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 7F/T | AutoPASS TC | AutoPASS IP | TST | AutoPASS HUB | Appendix A2 - TST Format |
| 8F/T | AutoPASS TC | AutoPASS IP | ACT | AutoPASS HUB | Appendix A1 - ACT Format |
| 9F/T | AutoPASS TC | AutoPASS IP | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 10F/T | AutoPASS TC | AutoPASS IP | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 11F/T | AutoPASS TC | AutoPASS IP | TIF | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 12F/T | AutoPASS IP | AutoPASS TC | TIC | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 13F/T | AutoPASS IP | AutoPASS TC | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 14F/T | AutoPASS IP | AutoPASS TC | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 15F/T | AutoPASS TSP | AutoPASS IP | TIF | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 16F/T | AutoPASS TSP | AutoPASS IP | Whitelist (HGC) | AutoPASS HUB | Appendix A4 - Whitelist Format |
| 17F/T | AutoPASS TSP | AutoPASS IP | TST | AutoPASS HUB | Appendix A2 - TST Format |
| 18F/T | AutoPASS TSP | AutoPASS IP | ACT | AutoPASS HUB | Appendix A1 - ACT Format |
| 19F/T | AutoPASS TSP | AutoPASS IP | AIT | AutoPASS HUB | Appendix A3 - AIT Format |
| 20F/T | AutoPASS TSP | AutoPASS IP | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 21F/T | AutoPASS TSP | AutoPASS IP | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 22F/T | AutoPASS IP | AutoPASS TSP | TIC | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 23F/T | AutoPASS IP | AutoPASS TSP | Whitelist (HGV) | AutoPASS HUB | Appendix A4 - Whitelist Format |
| 24F/T | AutoPASS IP | AutoPASS TSP | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 25F/T | AutoPASS IP | AutoPASS TSP | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 26F/T | AutoPASS IP, ACFC | EasyGo HUB | ACT | AutoPASS/EasyGo/ACFC | 203 |
| 27F/T | AutoPASS IP, ACFC | EasyGo HUB | TST | AutoPASS/EasyGo/ACFC | 203 |
| 28F/T | AutoPASS IP, ACFC | EasyGo HUB | HGV | AutoPASS/EasyGo/ACFC | 203 |
| 29F/T | AutoPASS IP, ACFC | EasyGo HUB | NAT | AutoPASS/EasyGo/ACFC | Appendix A6 - Blacklist Format / 203 |
| 30F/T | AutoPASS IP (TC) | EasyGo TSP | TIC | AutoPASS/EasyGo | 203 |
| 31F/T | EasyGo TSP | AutoPASS IP (TC) | TIF | AutoPASS/EasyGo | 203 |
| 32F/T | EasyGo HUB | AutoPASS IP | NAT | AutoPASS/EasyGo | Appendix A6 - Blacklist Format / 203 |
| 33F/T | AutoPASS IP (TC) | ACFC TSP | TIC | AutoPASS/ACFC | Appendix A7 - TIF & TIC Format |
| 34F/T | AutoPASS IP | ACFC HUB | NSL (+OBE status file) | AutoPASS/ACFC | Appendix A7 - TIF & TIC Format |
| 35F/T | ACFC TSP | AutoPASS IP (TC) | TIF | AutoPASS/ACFC | Appendix A7 - TIF & TIC Format |
| | | | | | |

12 AutoPASS Ferry

Works in the same way as EasyGo HUB but with only these formats: TIF/TIC, OBU Statuslist/NSL

13 AutoPASS HUB

Brief description of the data content in the information flow to/from AutoPASS HUB

| Type | Overall description | Information flow | General description |
|------------------|---|-----------------------|--|
| Contract Data | Covers information about Contracts | Whitelist HGV | Contains information about customer / vehicle that have a contract with an issuer. Used to update records in the complete whitelist (HGVC) |
| | | Whitelist HGVC | Contains information about all customers / vehicles that have a contract with an issuer. |
| | | OBU Status File (NSL) | A whitelist used at Roadside that gives status about the On Board Unit (OBU) |
| Transaction Data | Covers information about the transaction and price. | Transaction file | Detailed information about the payment passage. Also used for carrying various other kind of information related to transactions. |
| | | TIF | Contains information about transactions (passages) with vehicle/passage/price-data. |
| Information Data | Covers information about Actors, equipment and system information | ACT | List of all the actors in AutoPASS and the EasyGo partnership. |
| | | TST | List of all the toll stations in AutoPASS and the EasyGo partnership |
| | | AIT | List of OBU Toll Service Providers that are accepted within the AutoPASS/EasyGo system. |
| | | Price File | Covers information about hours with toll for the CP and the toll for the vehicle classes. |
| | | Exception messages | Report of an event on roadside. |
| | | ALM | Report/alarm of an event in AutoPASS IP, EasyGo HUB, AutoPASS HUB |

13.1 Format specifications – AutoPASS HUB

| ID | TO | FROM | FORMAT NAME | VIA HUB | FORMAT SPECIFICATION |
|--------|-------------------|------------------|-----------------------------|----------------------|-----------------------------------|
| 1F/T | Roadside | AutoPASS IP | Tariff-fil / Price file | AutoPASS HUB | Appendix A11 - Tariff File |
| 2F/T | Roadside | AutoPASS IP | NSL (+OBE status file) | AutoPASS HUB | Appendix A5 - OBUStatus File |
| 3F/T | Roadside | AutoPASS IP/NPRA | AIT (Accepted issuer table) | AutoPASS HUB | Appendix A3 - AIT Format |
| 4F/T | AutoPASS IP | Roadside | Transaction file | AutoPASS HUB | Appendix A8 - Transaction File |
| 5F/T | AutoPASS IP | Roadside | Picture file | AutoPASS HUB | Appendix A9 - Picture File |
| 6F/T | AutoPASS IP | Roadside | Exception Messages | AutoPASS HUB | Appendix A12 - Exception Messages |
| 7F/T | AutoPASS TC | AutoPASS IP | TIF | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 8F/T | AutoPASS TC | AutoPASS IP | TST | AutoPASS HUB | Appendix A2 - TST Format |
| 9F/T | AutoPASS TC | AutoPASS IP | ACT | AutoPASS HUB | Appendix A1 - ACT Format |
| 10F/T | AutoPASS TC | AutoPASS IP | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 114F/T | AutoPASS TC | AutoPASS IP | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 12F/T | AutoPASS IP | AutoPASS TC | TIC | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 13F/T | AutoPASS IP | AutoPASS TC | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 14F/T | AutoPASS IP | AutoPASS TC | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 15F/T | AutoPASS TSP | AutoPASS IP | TIF | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 16F/T | AutoPASS TSP | EasyGo TC | TIF | AutoPASS/EasyGo | 203 |
| 17F/T | AutoPASS TSP | ACFC TC | TIF | AutoPASS/ACFC | Appendix A7 - TIF & TIC Format |
| 18F/T | AutoPASS TSP | AutoPASS IP | TST | AutoPASS HUB | Appendix A2 - TST Format |
| 19F/T | AutoPASS TSP | AutoPASS IP | ACT | AutoPASS HUB | Appendix A1 - ACT Format |
| 20F/T | AutoPASS TSP | AutoPASS IP | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 21F/T | AutoPASS TSP | AutoPASS IP | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 22F/T | AutoPASS IP | AutoPASS TSP | TIC | AutoPASS HUB | Appendix A7 - TIF & TIC Format |
| 23F/T | EasyGo TC | AutoPASS TSP | TIC | AutoPASS/EasyGo | 203 |
| 24F/T | ACFC TC | AutoPASS TSP | TIC | AutoPASS/ACFC | Appendix A7 - TIF & TIC Format |
| 25F/T | AutoPASS IP | AutoPASS TSP | Whitelist (HGV) | AutoPASS HUB | Appendix A4 - Whitelist Format |
| 26F/T | AutoPASS IP | AutoPASS TSP | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 27F/T | AutoPASS IP | AutoPASS TSP | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 28F/T | AutoPASS IP, ACFC | EasyGo HUB | ACT | AutoPASS/EasyGo/ACFC | 203 |
| 29F/T | AutoPASS IP, ACFC | EasyGo HUB | TST | AutoPASS/EasyGo/ACFC | 203 |
| 30F/T | AutoPASS IP, ACFC | EasyGo HUB | AIT | EasyGo/ACFC | 203 |
| 31F/T | AutoPASS IP, ACFC | EasyGo HUB | HGV | AutoPASS/EasyGo/ACFC | 203 |
| 32F/T | AutoPASS TSP | EasyGo TC | TIF | AutoPASS/EasyGo | 203 |
| 33F/T | ACFC TSP | EasyGo TC | TIF | AutoPASS/EasyGo | 203 |
| 34F/T | AutoPASS IP | EasyGo TSP | TIC | AutoPASS/EasyGo | 203 |
| 35F/T | EasyGo TSP | AutoPASS IP | TIF | AutoPASS/EasyGo | 203 |
| 36F/T | EasyGo TSP | ACFC TC | TIF | AutoPASS/EasyGo | 203 |

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|-------|------------------|------------------|-----|-----------------|--------------------------------|
| 37F/T | EasyGo TC | AutoPASS TSP | TIC | AutoPASS/EasyGo | 203 |
| 38F/T | AutoPASS TSP | ACFC TC | TIF | AutoPASS/ACFC | Appendix A7 - TIF & TIC Format |
| 39F/T | AutoPASS IP (TC) | ACFC TSP | TIC | AutoPASS/ACFC | Appendix A7 - TIF & TIC Format |
| 40F/T | ACFC TSP | AutoPASS IP (TC) | TIF | AutoPASS/ACFC | Appendix A7 - TIF & TIC Format |
| 41F/T | ACFC TC | AutoPASS TSP | TIC | AutoPASS/ACFC | Appendix A7 - TIF & TIC Format |
| 42F/T | AutoPASS IP | AutoPASS HUB | ALM | AutoPASS HUB | Appendix A13 - Alarm Messages |
| 43F/T | AutoPASS HUB | AutoPASS IP | ALC | AutoPASS HUB | Appendix A13 - Alarm Messages |
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14 EasyGo HUB

The EasyGo HUB is no longer used for transfer of data to AutoPASS and has been disconnected from AutoPASS HUB

Obsolete

14.1 Format specifications – EasyGo HUB Interface to AutoPASS/ACFC HUB

Obsolete

15 ACFC HUB

ACFC has been discontinued and is no longer connected to AutoPASS HUB

Obsolete

15.1 Format specifications – ACFC HUB Interface to AutoPASS HUB

Obsolete