AP-3.4
Toll Station Table – TST

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DOCUMENT STATUS

Document No.	**AP-3.4 Toll Station Table – TST**

Status	Version	Description
Approved	2.0	

REVISION HISTORY

Version	Date	Author	Main Changes
1.0	27 June 2023	NPRA	New document. Content from old doc. 4.3, cleaned up and clarified. Rectified inconsistencies.
2.0	4 March 2025	NPRA	Added new options for “Roadside supplier”. Some minor clarifications.

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1 PREFACE

1.1 Description

This file is produced by AutoPASS IP, based on information from Toll Stations according to the general rules of coding. The term Toll Station is also used for other installations like for collecting ferry charges. This file is part of the data set "toll context data" as defined in ISO technical specification ISO/TS 17573-2.

The TST file sent from AutoPASS IP is based on information provided by each TC. The ActorID of the sender is 000002 (AutoPASS IP) and the ActorID of the receiver is 999999 (Broadcast).

AutoPASS HUB merges the TST files from AutoPASS IP and AutoPASS ferry solution and forwards the merged TST file to the TSPs

1.2 Format Versions

The file format version is 500001.

This file format is specific to AutoPASS. It remains unchanged from the original AutoPASS format definition.

1.3 File Name Generation

The file name format is: `TSTxxxxxxYYYYMMDDSS_zzzzzz_vvvvvv` – 33 characters.

- xxxxxx – ActorID of the originator of the file
- YYYY – Year
- MM – Month (01-12)
- DD – Day (01-31)
- SS – Sequence number (01-99) of the Toll Station Table. Increments for each file produced during the same day. Resets to 01 for the next day.
- zzzzzz – ActorID of the receiver of the Toll Station Table file (6 characters). 999999 is used for broadcast to all. 00000B is used for distribution to all TCs.
- vvvvvv – Format Version

Format of the List Sequence of the header: `TSTxxxxxxYYYYMMDDSS` – 19 characters.

1.4 Data Formats

1.4.1 Character Set

The ISO 8859-1 character set is to be used. Line Feed only is used at the end of each line.

1.4.2 Time Stamp Format

All time stamps in the file body shall be given in local Norwegian time.

The format of the time stamp is YYYYMMDDhhmmss, where:

- YYYY – Year
- MM – Month (01-12)
- DD – Day (01-31)
- hh – Hour (00-23)
- mm – Minute (00-59)
- ss – Second (00-59)

2 TOLL STATION TABLE FORMAT

2.1 File Header

Name	Number of Char.	Type of value	Begin	End	Definition	Origin	Adjusted	Mandatory or Optional	Value if Nothing	Padding
Register Identifier	1	Numeric	1	1	"0"=Header.	Generation	Right	Mandatory	n/a	n/a
Sender Identifier	6	AlphaN	2	7	6 digits identifier of the Entity having created this file. AutoPASS IP = 000002.	Generation	Left	Mandatory	n/a	n/a
Receiver Identifier	6	AlphaN	8	13	6 digits identifier of the Entity (or Entities) intended as recipients of this file. Broadcast = 999999	Generation	Left	Mandatory	n/a	n/a
List Sequence	19	AlphaN	14	32	TSTxxxxxxYYYYMMDDSS	Generation	Left	Mandatory	n/a	n/a
Previous List Sequence	19	AlphaN	33	51	TSTxxxxxxYYYYMMDDSS	Generation	Left	Mandatory	n/a	n/a
Moment of activation	14	Numeric	52	65	YYYYMMDDHHmmss UTC (Filled with zeros for activation immediately after processing). If the "Moment of activation" is given and a newer version of the TST is delivered with a processing date prior to the already given date (or for immediate processing), the older file will be discarded.	Generation	Right	Optional	Zeros	n/a
Number of records	15	Numeric	66	80	Number of records (lines) in the Body.	Generation	Right	Mandatory	n/a	Zeros
Moment of creation	14	Numeric	81	94	YYYYMMDDHHmmss UTC.	Generation	Right	Mandatory	n/a	n/a
List format version	6	AlphaN	95	100	500001	Generation	Left	Mandatory	n/a	n/a
Filler	27	AlphaN	101	127	Reserved for future use, filled with Zeros.	Generation	Left	Mandatory	n/a	n/a
End of header	1	AlphaN	128	128	Line Feed only	Generation	Left	Mandatory	n/a	n/a

2.2 Body

Name	Number of Char.	Type of value	Begin	End	Definition	Origin	Adjusted	Mandatory or Optional	Value if Nothing	Padding
Register Identifier	1	Numeric	1	1	"1"=Body.	Generation	Right	Mandatory	n/a	n/a
Country code	2	AlphaN	2	3	ISO 3166-1-Alpha-2 code elements. NO = Norway.	IP Config	Left	Mandatory	n/a	n/a
ActorID*	6	AlphaN	4	9	6 digits identifier of the TC. Unique ID identifier in AutoPASS for the actor responsible for the data of the body line.	IP Config	Left	Mandatory	n/a	n/a
TC Project Name	25	AlphaN	10	34	Name of the project.	IP Config	Left	Mandatory	n/a	Blanks
Network Code	2	Numeric	35	36	2 digits identifier of the Project. May be used by each Regional Toll Charger (RBPS) for better identification of their projects.	IP Config	Right	Optional	Zeros	Zeros
Network Name	20	AlphaN	37	56	Alternative identification of the project, if needed. Each TC decides how to use this field.	IP Config	Left	Optional	Blanks	Blanks
Road number	4	AlphaN	57	60	Free text.	IP Config	Left	Optional	Blanks	Blanks
Station Code*	4	Numeric	61	64	4 digits identifier of the Station. This is unique for each ActorID.	IP Config	Right	Mandatory	n/a	Zeros
Station Name short **	25	AlphaN	65	89	Short name of the Station. Information after a comma identifies a sub-project. The text should be useful as a description on an invoice.	IP Config	Left	Mandatory	n/a	Blanks
Station direction Code	2	AlphaN	90	91	Not intended used in AutoPASS.	IP Config	Left	Optional	Blanks	Blanks
Station direction Description	25	AlphaN	92	116	Free text, e.g. "From city centre". Use descriptive text in English.	IP Config	Left	Optional	Blanks	Blanks

Name	Number of Char.	Type of value	Begin	End	Definition	Origin	Adjusted	Mandatory or Optional	Value if Nothing	Padding
Lane identification*	4	Numeric	117	120	Lane number. Identification of the lane to be used in the TIF list.	IP Config	Right	Mandatory	n/a	Zeros
Type of Station	2	Numeric	121	122	Code which identifies the type of toll station: "01" Open – Legacy value. Not to be used for new stations. “05” Open Road Tolling – OBE or Video based, fully automatic. Used for Free Flow.	IP Config	Right	Mandatory	n/a	Zeros
Station name long **	60	AlphaN	123	182	If the Station name is longer than 25 characters, this field shall be used to give the full description. If the Station name is 25 characters or shorter, the Station Name short shall be repeated here. Information after a comma identifies a sub-project.	IP Config	Left	Mandatory	n/a	Blanks
Position Longitude	10	AlphaN	183	192	EU89 coordinate of Toll station lane longitude in decimal degrees. Comma (",“) is to be used for decimal point.	IP Config	Left	Mandatory	n/a	Blanks
Position Latitude	10	AlphaN	193	202	EU89 coordinate of Toll station lane latitude in decimal degrees. Comma (",“) is to be used for decimal point.	IP Config	Left	Mandatory	n/a	Blanks
Roadside supplier	2	Numeric	203	204	11 = Q-Free 1-portal with VMS 12 = Tecsidel 1-portal with VMS 13 = Kapsch 1-portal with VMS 14 = EFKON 1-portal with VMS 21 = Q-Free 1-portal without VMS 22 = Tecsidel 1-portal without VMS 23 = Kapsch 1-portal without VMS 24 = EFKON 1-portal without VMS 31 = Q-Free 3-portal with VMS 32 = Tecsidel 3-portal with VMS 33 = Kapsch 3-portal with VMS 34 = EFKON 3-portal with VMS 41 = Q-Free 3-portal without VMS 42 = Tecsidel 3-portal without VMS 43 = Kapsch 3-portal without VMS 44 = EFKON 3-portal without VMS Other values may be defined as required	IP Config	Right	Mandatory	n/a	n/a
NVDB ID	10	Numeric	205	214	Unique ID in NVDB (Called “Objektid” or “VegobjektID” in NVDB).	IP Config	Right	Mandatory	n/a	Zeros
TC specific 1	3	AlphaN	215	217	Reserved for use in the TC back office systems.	IP Config	Right	Optional	Blanks	Blanks
TC specific 2	2	AlphaN	218	219	Reserved for use in the TC back office systems.	IP Config	Right	Optional	Blanks	Blanks
Filler	13	AlphaN	220	232	Reserved for future use, filled with zeros.	Generation	Left	Mandatory	n/a	Zeros
End of record	1	AlphaN	233	233	Line Feed only	Generation	Left	Mandatory	n/a	n/a

* The combination of ActorID, Station code and Lane identification must be unique.

** Both fields are to be filled.

2.3 File Footer

Name	Number of Char.	Type of value	Begin	End	Definition	Origin	Adjusted	Mandatory or Optional	Value if Nothing	Padding
Register Identifier	1	Numeric	1	1	"2"=Footer.	Generation	Right	Mandatory	n/a	n/a
Filler	62	AlphaN	2	63	Reserved for future use, filled with Zeros.	Generation	Left	Mandatory	n/a	Zeros
End of Footer	1	AlphaN	64	64	Line Feed only	Generation	Left	Mandatory	n/a	n/a