AP-3.11
Tariff File - TF

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DOCUMENT STATUS

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Status	Version	Description
Approved	1.0	

REVISION HISTORY

Version	Date	Author	Main Changes
1.0	4 March 2025	NPRA	First version. Adapted from previous AutoPASS document 4.3

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1   PREFACE

1.1   Description

The Tariff File contains the prices to be shown on the Variable Message Signs (VMS) used in some Tolling Projects. It is produced by the AutoPASS IP daily, one file per operator code.

1.2   Format Versions

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: `A_tariffile_OOOOOO_YYYYMMDD_SS.dat`

- OOOOOO – Operator code for the tolling project concerned.
- YYYY   – Year
- MM   – Month (01-12)
- DD   – Day (01-31)
- SS   – Sequence number of the Tariff File, incremented for each file produced. It resets to 00 after 99 and at the beginning of each new day.

1.4   Data Formats

The Tariff File is a crontab file.

1.4.1   Character Set

ASCII. Only Line Feed is used at the end of each line.

2   TARIFF FILE FORMAT

2.1   File Header

Name	Number of Char.	Type of value	Begin	End	Definition	Origin	Mandatory or Optional	Padding
Record type	1	Numeric	1	1	"4"=Start record	IP	Mandatory	n/a
Filler	1	AlphaN	2	2	Blank	IP	Mandatory	n/a
Date of creation, seq.nr.	14	Numeric	3	16	YYYYMMDDHHMMSS	IP	Mandatory	n/a
End of line	1	AlphaN	17	17	End of line	IP	Mandatory	n/a
Record type	1	Numeric	1	1	"2"=Valid from Date	IP	Mandatory	n/a
Filler	1	AlphaN	2	2	Blank	IP	Mandatory	n/a
ValidFrom	12	Numeric	3	14	YYYYMMDDHHMM	IP	Mandatory	n/a
End of Header	1	AlphaN	15	15	Line Feed only		Mandatory	n/a

2.2   Body

Name	Number of Char.	Type of value	Begin	End	Definition	Origin	Mandatory or Optional	Padding
Record type	1	Numeric	1	1	"1"=Body	IP	Mandatory	n/a
Filler	1	AlphaN	2	2	Blank	IP	Mandatory	n/a
CP ID	3	AlphaN	3	5	A unique number for every Charging Point. This number is used to differentiate prices regarding the Charging Points. The field can contain *, which can mean all CPs.	IP	Mandatory	n/a
Filler	1	AlphaN	6	6	Blank	IP	Mandatory	n/a
LaneID	2	AlphaN	7	8	A unique number for every lane at a CP. The number is used to differentiate prices regarding lanes. The field can contain *, which means all lanes.	IP	Mandatory	n/a
Filler	1	AlphaN	9	9	Blank	IP	Mandatory	n/a
LaneType		AlphaN	10	*	Indicates which type of lane the price is valid for. "1" = Electronic fee collection "*" = All LaneTypes – can be used in place of "1"	IP	Mandatory	n/a
Filler	1	AlphaN	*	*	Blank	IP	Mandatory	n/a
VehicleClass	1	AlphaN	*	*	Defines the class for the payment. "1" = Large vehicle > 3500kg "2" = Small vehicle <= 3500kg "*" = All vehicles If more than one Vehicle Class then "," (comma) separates the values.	IP	Mandatory	n/a
Filler	1	AlphaN	*	*	Blank	IP	Mandatory	n/a

Name	Number of Char.	Type of value	Begin	End	Definition	Origin	Mandatory or Optional	Padding
Weekday	1	AlphaN	*	*	Used to indicate which days the price is valid for, in such a way that it is possible to differentiate between weekdays and weekends. The days are numbered like this: "0" = Sunday "1" = Monday .. "6" = Saturday "*" = All days If more than one day then "," (comma) separates the values.	IP	Mandatory	n/a
Filler	1	AlphaN	*	*	Blank	IP	Mandatory	n/a
Month	2	AlphaN	*	*	Used to indicate month. "01" = January "02" = February .. "12" = December "*" = All months This field, in combination with "Day of month" can be used to differentiate between prices on special days, e.g. May 17 and December 24.	IP	Mandatory	n/a
Filler	1	AlphaN	*	*	Blank	IP	Mandatory	n/a
DayOfMonth	2	AlphaN	*	*	Used to specify special days in month. Two characters are always used to represent "Day of month", i.e. 01, 02,.....,09, 10,...,31. "*" = All days Is used in combination with Month to differentiate price on special days (see previous paragraph).	IP	Mandatory	n/a
Filler	1	AlphaN	*	*	Blank	IP	Mandatory	n/a
Time	2	AlphaN	*	*	Used to specify hour pr. day to which the different prices are valid from. Two characters are always used to represent "hour" i.e. 00, 01,.....,09, 10,...,23 "*" = All hours	IP	Mandatory	n/a
Filler	1	AlphaN	*	*	Blank	IP	Mandatory	n/a
Min	2	AlphaN	*	*	Used to specify minute within every hour the different prices are valid for. Two characters are always used to represent "min", i.e. 01,.....,09, 10,...,60 "*" = All minutes	IP	Mandatory	n/a
Filler	1	AlphaN	*	*	Blank	IP	Mandatory	n/a
Currency	3	AlphaN	*	*	Abbreviation in capitalized letters which identifies the currency type. "NOK": Norwegian Kroner	IP	Mandatory	n/a
Filler	1	AlphaN	*	*	Blank	IP	Mandatory	n/a
Price (In Currency)	12	Numeric	*	*	Current price for the criteria's above. Twelve characters are always used to represent "price", i.e. 000000000001,.....,000000000999, 000000001000,...,99999999999. Price is given in Currency/100.	IP	Mandatory	zeros
End of Record	1	AlphaN	*	*	Line Feed only		Mandatory	n/a

2.3   File Footer

Name	Number of Char.	Type of value	Begin	End	Definition	Origin	Mandatory or Optional	Padding
RecordType	1	Numeric	*	*	"3" = Reconciliation record.	IP	Mandatory	n/a
Filler	1	AlphaN	*	*	Blank	IP	Mandatory	n/a
NumberOfRecords	5	Numeric	*	*	Number of records in price file, reconciliation record excluded. Five characters are always used to represent number of records, 00001, …, 00099, …, 99999	IP	Mandatory	n/a
End of Footer	1	AlphaN	*	*	Line Feed only		Mandatory	n/a

3   FILE EXAMPLE

The Price File below is a complete price file for CP 012, lane 01. In this file special days like Christmas Eve and May 17 are included. These special days must always be presented in the beginning of the file. The following lines are price differentiation valid for the whole week except the special days.
Example: Line 7 of the body describes that vehicle class 2 must pay NOK 100 from 22h until 00h.

```
4 20240101080530
2 20240101
1 012 01 * 1,2 * 05 17 * * NOK 000000000000
1 012 01 * 1,2 * 12 24 * * NOK 000000000000
1 012 01 * 1,2 1,2,3,4,5 * * 00 * NOK 000000001000
1 012 01 * 1 1,2,3,4,5 * * 06 * NOK 000000001200
1 012 01 * 2 1,2,3,4,5 * * 06 * NOK 000000002400
1 012 01 * 1,2 1,2,3,4,5 * * 18 * NOK 000000001000
1 012 01 * 2 1,2,3,4,5 * * 22 * NOK 000000010000
1 012 01 * 1,2 0,6 * * 00 * NOK 000000001000
1 012 01 * 1,2 0,6 * * 18 * NOK 000000000800
3 00011
```

Table 1 - Explanation of each line of the file example

Line type	Contents	Description
Header	4 20240101080530	Price file created 2024.01.01 at 8:05:30
Header	2 20240101	The prices below are valid from 2024.01.01
Body	1 012 01 * 1,2 * 05 17 * * NOK 000000000000	Price Record applies for small and large vehicle in lane 01, CP 12, May 17, whole day, price = 0 NOK
Body	1 012 01 * 1,2 * 12 24 * * NOK 000000000000	Price Record applies for small and large vehicle in lane 01, CP 12, Christmas Eve, Price= 0 NOK, all day.
Body	1 012 01 * 1,2 1,2,3,4,5 * * 00 * NOK 000000001000	Price Record applies for small and large vehicle in lane 01, CP 12 all weekdays from 00h, price = 10 NOK
Body	1 012 01 * 1 1,2,3,4,5 * * 06 * NOK 000000001200	Price Record applies for small vehicle, all weekdays in lane 01, CP 12, from 06h, price = 12 NOK
Body	1 012 01 * 2 1,2,3,4,5 * * 06 * NOK 000000002400	Price Record applies for large vehicle in lane 01, CP 12, all weekdays, from 06h, price = 24 NOK
Body	1 012 01 * 1,2 1,2,3,4,5 * * 18 * NOK 000000001000	Price Record applies for small and large vehicle in lane 01, CP 12, all weekdays, from 18h, price = 10 NOK
Body	1 012 01 * 2 1,2,3,4,5 * * 22 * NOK 000000010000	Price Record applies from large vehicle in lane 01, CP 12, all weekdays, from 22h, price = 100 NOK
Body	1 012 01 * 1,2 0,6 * * 00 * NOK 000000001000	Price Record applies for small and large vehicle in lane 01, CP 12, all weekends, from 00h, price = 10 NOK
Body	1 012 01 * 1,2 0,6 * * 18 * NOK 000000000800	Price Record applies for small and large vehicle in lane 01, CP 12, all weekends, from 18h, Price = 8 NOK
Footer	3 00011	Reconciliation record, 11 Records in file except reconciliation record.