# MetroCount® traffic data specialists

# **Time Filtering**

# **MTE User Manual - Report Profiles**

4.03

### MetroCount

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# **Time Filtering**

## **Overview**

Profile time filtering controls the start and finish time of a report, with a range of options to automatically set common time filtering requirements. Selected periods can also be excluded based on time of day, and day of the week. All adjustments can be made to any 15-minute boundary.

Report profile									
	and report settings ng and report settings are here								
Name	Default Profile Advanced )								
Speed	Include vehicles with speeds between 0 km/h and 200 km/h.								
Separation	No filter on Separation - (Headway)								
Direction	North, East, South, West bound.								
Classes	Include class 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13								
Scheme	Classified vehicles - ARX								
Time									
Time	From 00:00 Tuesday, 21 September 1993 to 00:00 Monday, 27 September 1993								
	Disable filter								

Profile time filter settings

The time filter options are accessed by clicking the button showing the currently selected time range. The chart above the button represents the available time range for the tagged datasets. The blue line in the centre represents the range of actual data, from the start time to the last detected sensor hit. The red bar represents the selected time range.

The default behaviour of a Local Profile is to select the entire time range. Time filtering is primarily used to avoid partial time bins at the start and finish of reports, and for including integral numbers of complete hours or days for statistical analysis.

# **Time Range**

### **Manual Setting**

The time range of a report can be manually set using the controls in the **Include vehicles after (start)** and **Include vehicles before (finish)** blocks. The buttons, or spin control under the time adjust the time in hourly steps, or 15 minute steps if the **Allow 15 minute granularity** option is checked. The date spin control steps in days.

Time range 13:00 Monday, 20 September 1993	14:24 Monday, 27 September 1993
Include vehicles after	Include vehicles before Set to end >> 00:00 Mon 27 Sep 1993
Image: state	4     +       Auto-Wrap       None
Mask	Wrep to actual data Align reports to start of time range Aliow 15 minute granularity DK Cancel

Manually setting the Profile time range

### **Auto-Wrap**

The Auto-wrap options automatically adjust the time range to a selection of common filtering requirements. If the selected wrap type cannot be applied to the available data, the time range chart will flash.

Time range					×								
12:32 Thursday, 12	July 2007			1	2:44 Friday, 27 July 2007								
	Inc	lude vehicles after	Include vehic	les before									
<< Set to start					Set to end >>								
00:00	Fri 13	Jul 2007	00:00	Fri 20	Jul 2007								
	4		- t - >										
Exclusion times			Auto-Wrap										
Mask			First seven alig	First seven aligned days									
Use exclusion			None Entire dataset										
			Alianed hours										
			Aligned days Aligned weeks										
			First aligned da										
			First two aligne First seven alig										
			First eight align First aligned we		2								
			Unaligned days	s (24-hour periods) ks (168-hour period	s)								
			First seven una	day (24 hours) ned days (48 hours) iligned days (168 ho gned days (192 hou	urs)								
			First masked da First two maske	ay (24 hours) ed days (48 hours)									

Time Filter Auto-Wrap options

**Aligned** Auto-wrap options adjust the time filter to the maximum number of the selected time increment (hour, day or week), aligned to the selected time increment. Put simply:

- Aligned Hours wraps to complete hours.
- Aligned Days wraps to complete days, starting at midnight.
- Aligned Weeks wraps to complete weeks, starting midnight Monday (or Saturday for alternate weekends).

**Unaligned** Auto-wrap options adjust the time filter to the maximum number of the selected time increment (hour, day or week), but only aligned to hours. For example, **First two unaligned days (48 hours)** will select the first two days of data, aligned to the first complete hour.

Masked Auto-wrap options select the maximum number of contiguous time increments not masked by the Time Mask. For example, the first 48 hours of *weekday* data can be selected by masking weekends with the Time Mask, then selecting **First two masked days (48 hours)**.

Time range		×
12:32 Thursday, 12 July 2007		12:44 Friday, 27 July 2007
Include vehi	les after	
<< Set to start		Set to end >>
00:00 Mon 16 Jul 200	7 00:00 We	id 18 Jul 2007
	4 > 0	
Exclusion times	Auto-Wrap	
Mask	First two masked days (4	↓8 hours) 🔻
Use exclusion	Wrap to actual data	if time range
	Allow 15 minute granu	-
		OK Cancel

### Auto-wrap with weekends masked

The **Wrap to actual data** option aligns the Auto-wrap options to the last hour, day or week containing sensor hits, as represented by the blue line. The time of the last sensor hit may differ from the dataset finish time if the RSU was removed from the field before unloading.

Time range	
13:00 Monday, 20 September 1993	14:24 Monday, 27 September 1993
Include vehicles after	Include vehicles before
<< Set to start	Set to end >>
13:00 Mon 20 Sep 1993	07:00 Mon 27 Sep 1993
Exclusion times	Auto-Wrap
Mask	Aligned hours
Use exclusion	Wrap to actual data
Use exclusion	Align reports to start of time range
	Allow 15 minute granularity
	OK Cancel

Wrap to actual data option aligns to last sensor hit

## **Time Exclusions**

The **Time Mask** is used to exclude particular times of the week (with 15 minute resolution), or selected dates from the time range of the tagged datasets. Some common uses for the Time Mask:

- Excluding weekends.
- Targeting "school hours" for variable speed limits.
- Excluding holidays.

The Time Mask settings are accessed by clicking the **Mask** button. Note that the **Use exclusion** option *must* be checked for the Time Mask to take effect. The masked times will be represented by black regions in the time range chart.

Time range	
12:32 Thursday, 12 July 2007	12:44 Friday, 27 July 2007
Include vehicles after	Include veters before
<< Set to start	Set to end >>
12:32 Thu 12 Jul 2007	12:44 Fri 27 Jul 2007
Exclusion times	Auto-Wrap
Mask	None
V Use exclusion	Wrap to actual data
	Align reports to start of time range
	Allow 15 minute granularity
	OK Cancel

### **Excluding time using the Time Mask**

The Time Mask uses a grid representing a week divided into hours. Shaded hours will be included in the report, and white hours excluded. Each hour can be toggled by clicking on it, or rapidly toggled by clicking and dragging. Entire rows and columns can be toggled using the + and - buttons.

Exclusi	ion																									×
Report	tisı	iene	erate	d fo	r sha	ded	area	s											l	0	lear	all		1	nvert	
									7 0	8 0	9 1	0 1	1 1	2 1	3 1	4 1	51	6 1	7 1	8 1	9 2	0 2	1 2	2 2	3	
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Mon	Ð																									Ξ
	Ð																									8
Wed	Ð																									8
Thu	Ð																									8
Fri	Ð																									8
Sat	ŧ																									Ξ
Sun	Ŧ																									Ξ
		Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	-	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	-	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	
Exclud	de c	hec	ked	days	: íma	ximu	im of	sevi	∋nì																	
					2007				,																	
				200																		n.	1	5	-	
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				uly 2																					OK	
					ly 20																			0		_
🔲 Th	iurs	day,	19.	luly i	2007																	-	1	L	ance	1

Time Mask with weekends excluded

Right-clicking on any hour displays a dialog box with 15 minute resolution. The **Repeat on all days** option will copy the selected hour across the entire week.



Note: For reports where data is binned into hours, excluding part of an hour in the Time Mask will exclude the entire hour.

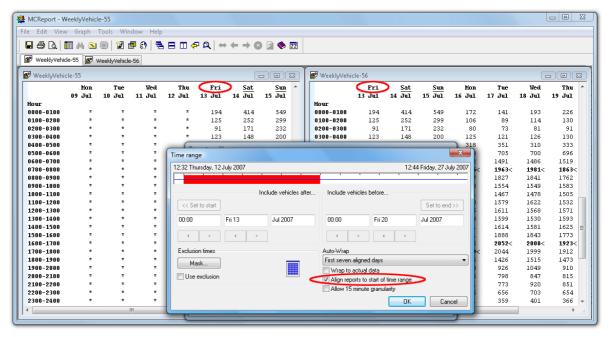


Setting partial hours

Specific dates can be excluded from a report by checking them in the **Exclude checked days** list at the bottom, up to a maximum of five. Use this feature for excluding dates that may adversely affect statistics, such as holidays.

## **Time Alignment**

The **Align reports to start of time range** option changes the beginning of reports to the first time step (option checked), or the *natural* division (default unchecked). Take for example the Weekly Vehicle or Daily Classes reports. The natural division of these reports is weeks, starting at Monday (or Saturday for alternate weekends). Checking this option will start the report at the first day in the selected time range. This is extremely useful for printing a complete week of data on a single page.



A Weekly Vehicle Report, aligned to the first day (weekends underlined)

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