

Time Filtering

MTE User Manual - Report Profiles

3.21 May 2009



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.

	and report settings ig 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	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				. X
13:00 Monday, 20 September 1993			14:24 Monda	ay, 27 September 1993
Inc	lude vehicles after	Include vehicles	before	
<< Set to start				Set to end >>
00:00 Tue 21	Sep 1993	00:00	Mon 27	Sep 1993
		-		
Exclusion times		Auto-Wrap		
Mask		None		
Use exclusion		Wrap to actual		
			start of time range	
		Allow 15 minute	granularity	_
			OK	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 Ju	ly 2007				12:44 Friday, 27 July 200
	Inc	lude vehicles afte	r Include vehicl	es before	
<< Set to start					Set to end >>
00:00 F	ri 13	Jul 2007	00:00	Fri 20	Jul 2007
4	4		4	•	>
Exclusion times			Auto-Wrap		
Mask			First seven alig	ned days	
Use exclusion			None Entire dataset		
			Alianed hours		
			Aligned days		
			Aligned weeks		
	_		First aligned day		
			First two aligned First seven align		N
			First eight aligne First aligned we		15
				: (24-hour period: ks (168-hour peri	
			First unaligned		,
			First seven una	ned days (48 hou ligned days (168	hours)
			First eight unalig	gned days (192 k	nours)
			First masked da	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 vehicles after.	Include vehicles before
<< Set to start	Set to end >>
00:00 Mon 16 Jul 2007	00:00 Wed 18 Jul 2007
Exclusion times	Auto-Wrap
Mask	First two masked days (48 hours) 🔹 🔻
	Wrap to actual data
Use exclusion	Align reports to start of time range
	Allow 15 minute granularity
	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				X			
13:00 Monday, 20 September 1993			14:24 Monda	ay, 27 September 1993			
Incl	ude vehicles after	Include vehicles I	pefore				
<< Set to start				Set to end >>			
13:00 Mon 20	Sep 1993	07:00	Mon 27	Sep 1993			
		4]			
Exclusion times		Auto-Wrap					
Mask		Aligned hours					
Use exclusion		Wrap to actual data					
	·		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:

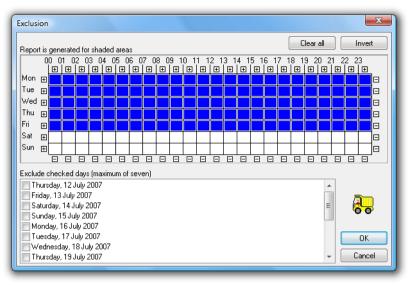
- Excluding weekends.
- Targeting "school hours" for variable speed limits.
- Excluding holidays.

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 veloce						
<< Set to start	Set to end >>						
12:32 Thu 12 Jul 2007	12:44 Fri 27 Jul 2007						
Exclusion times	Auto-Wrap						
Mask	None Virap to actual data						
Vse exclusion	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.



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.

Quarter hou	ırs			X
7:00	7:15	7:30	7:45	8:00
🔽 Repeat o	on all days		ок	Cancel

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.

Edit View	Graph		dow Hele													
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WeeklyVehic	le-55							x	😰 WeeklyVeh	cle-56						
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	09 Jul	10 Jul	11 Jul	12 Jul	13 Jul	14 Jul	15 Jul			13 Jul	14 Jul	15 Jul	16 Jul	17 Jul	18 Jul	19 Jul
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)200-0300)300-0400	*	*	*	*	91 123	171	232		0200-0300	91 123	171	232	80	73	81 126	91 130
)300-0400)400-0500	*	*	*	Ċ	123	140	200	-	0300-0400	123	140	200	318	351	310	333
1400-0500 1500-0600	*	*	*	Turn									×	705	700	696
600-0700	*	*	*	Time ran										1491	1486	1519
0700-0800	*	*	*	12:32 Th	ursday, 12 Ju	ly 2007					12:4	4 Friday, 27 J	uly 2007 🖌	1963<	1981<	1863<
000-0900	ź	*	*						· ·					1827	1841	1762
)900-1000	÷	*	*											1554	1549	1583
1000-1100	*	*	*				Include vehi	cles af	er Include v	ehicles before				1467	1478	1505
1100-1200	*	*	*	<< Se	et to start							Set to en		1579	1622	1532
1200-1300	*	*	*											1611	1568	1571
1300-1400 1400-1500	*	*	*	00:00	F	ri 13	Jul 200	17	00:00	Fri 20		Jul 2007		1599 1614	1530 1581	1593 1625
1400-1500 1500-1600	*	*	*			4				> 4	1			1614	1581	1625
1600-1000	*	*	*			, ,				-				2052<	2008<	1923<
1700-1800	*	*	*	Exclusi	on times				Auto-Wrap					2044	1999	1912
1800-1900	*	*	*		ask				First seven	aligned days			-	1426	1515	1473
1900-2000	*	*	*	M	ask					actual data				926	1049	910
2000-2100	÷	*	*	📃 🗌 Use	exclusion		l	umi	Align rep		ne range	>	2	798	847	815
2100-2200	*	*	*							minute granular				773	920	851
2200-2300	*	*	*						Allow To	minace granular	-		I	656	703	654
2300-2400	*	*	*								OK	Car	ncel -	359	401	366

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

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