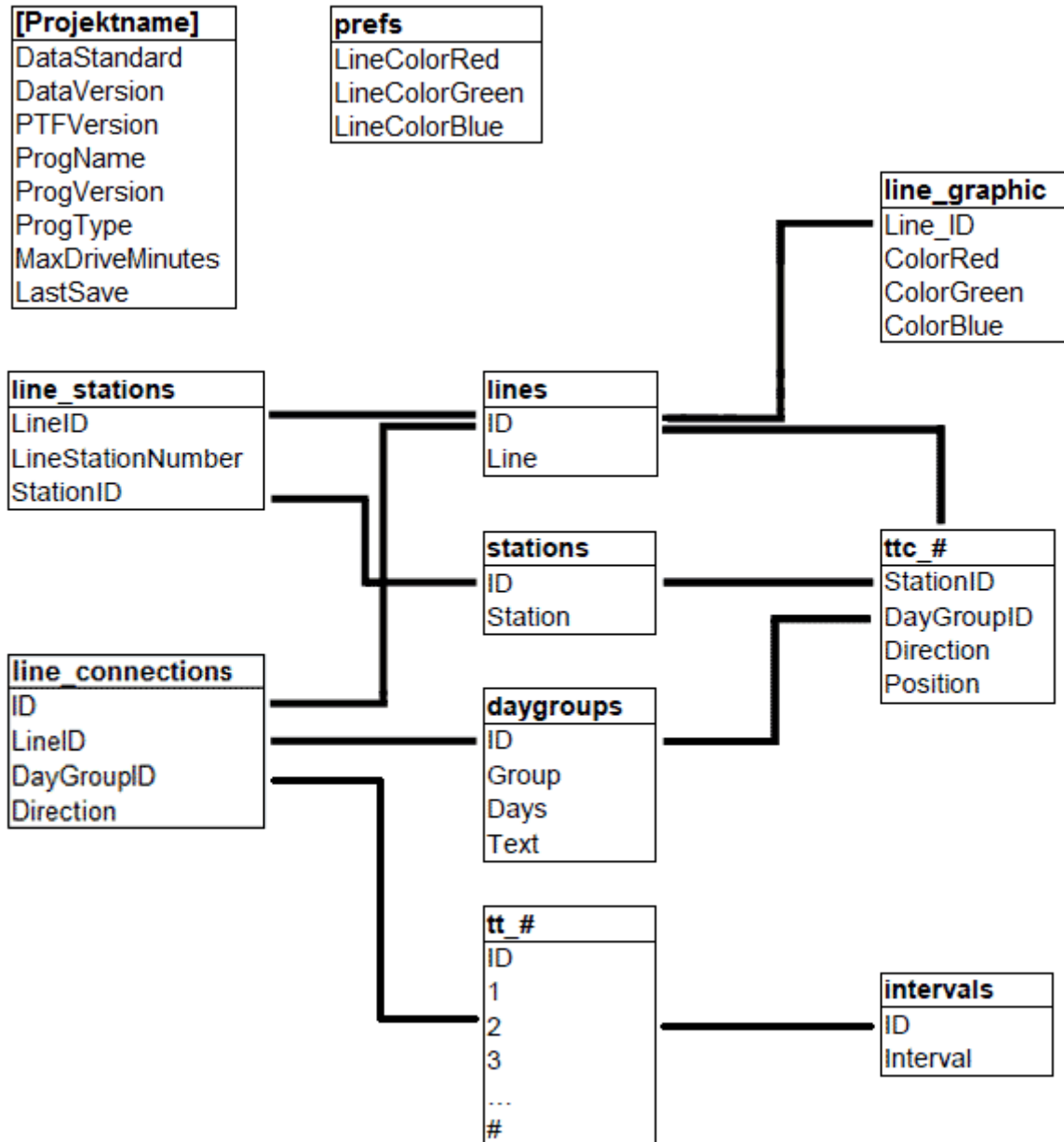


# PTraffic 1.0 Data Model

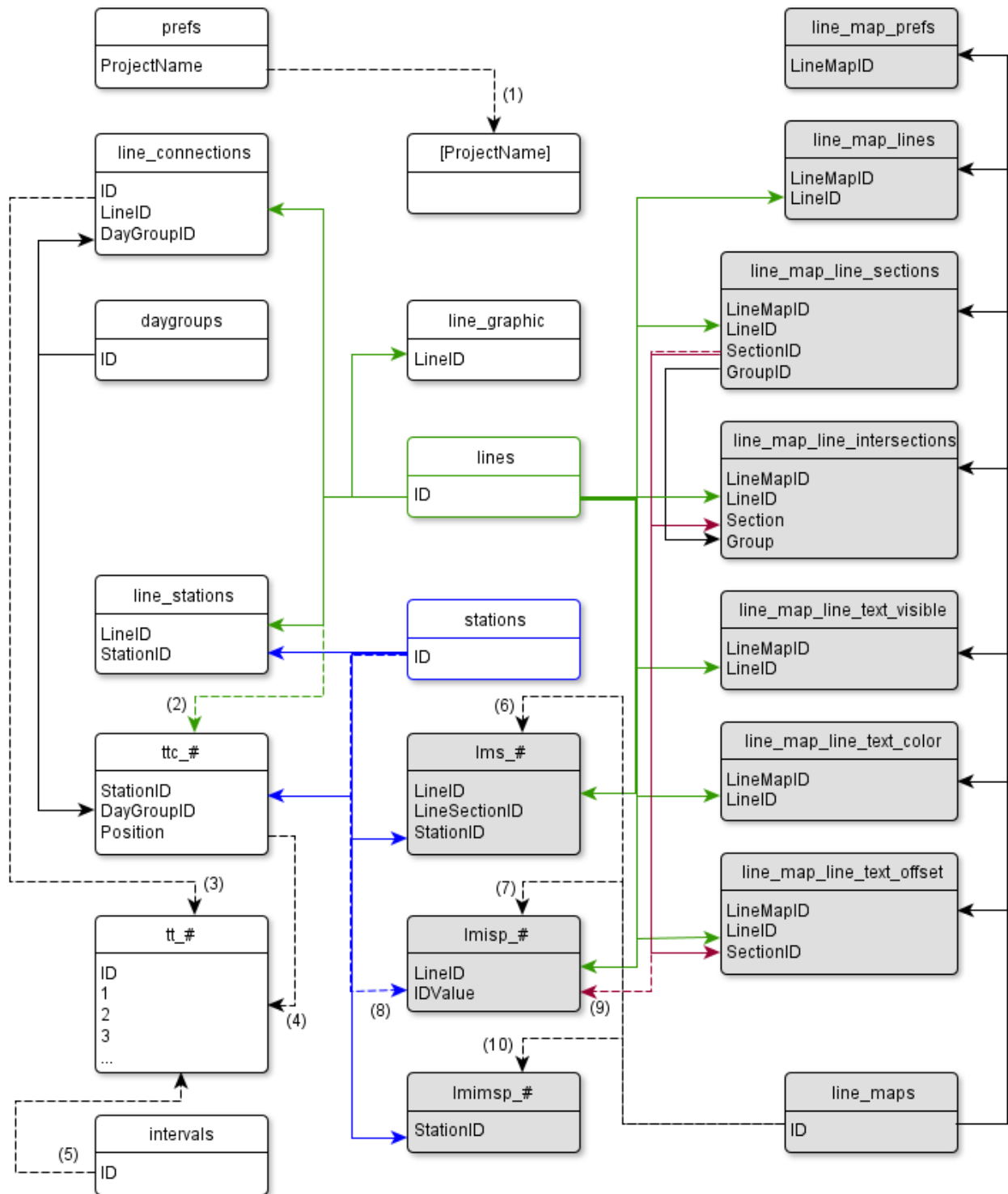
## Entity Relationship Model

PTraffic uses tables in the Portable-Table-Format (PTF). For further information on the structure of PTF files please see the homepage of PublicSQL [www.en.publicsql.org](http://www.en.publicsql.org).

This ER diagram shows the relationship between all tables used in PTraffic but without the tables used in PTraffic Pro.



This data model diagram shows the relationship between all tables used in PTraffic Pro standard. For space reasons only those fields showing the connection between tables are shown.



## Table description

This is a description of the content of the tables used. Entries in green color identify tables used only in PTraffic Pro. Tables containing variable field names are marked with square brackets.

Table Name	Description
prefs.ptf	Contains various settings of the actual project. This table consists of a single data record.
stations.ptf	Contains the names of stations.
lines.ptf	Contains the names of lines.
daygroups.ptf	Contains the groups of weekdays (Monday-Friday, Saturday, Sunday).
line_graphic.ptf	Contains the colors for the lines if specified. The default color is not stored here.
line_stations.ptf	Contains the stations for every line.
line_connections.ptf	Contains the day of week and the directions of the available schedules.
[ttc_#.ptf] (# is the index of the line from lines.ptf)	Contains the stations in correct order for every line in every schedule-
[tt_#.ptf] (# is the index of the connections from line_connections.ptf)	Contains the schedules
intervals.ptf	Contains all available interval-times of the schedules (e.g. „20“ if the train departs every 20 Minutes).
[Projektname.ppr] The file name consists of the project name and „.ppr“ as filetype.	Contains project specific information. This Table consists of a single data record.
line_maps.ptf	Contains the names of line maps.
line_map_prefs.ptf	Contains preferences used in line maps.
line_map_lines.ptf	Contains settings for the individual lines of line maps.
line_map_line_sections.ptf	Contains information about the line sections of lines in the line maps.
line_map_line_intersections.ptf	Contains information about transfer stations.
line_map_line_text_visible.ptf	Contains settings for the text placement of line text (at start and/or end of line) in the line map.
line_map_line_text_color.ptf	Contains information about the colors of lines.
line_map_line_text_offset.ptf	Contains information about the exact placement of line text in the line map.

lms_#.ptf (# is placeholder for the index to the line map from line_maps.ptf)	Contains information about the position of stations for the line map.
lmisp_#.ptf (# is placeholder for the index to the line map from line_maps.ptf)	Contains settings of the individual position and format of stations in the line map.
lmimsp_#.ptf (# is placeholder for the index to the line map from line_maps.ptf)	Contains settings of the individual position and format of transfer stations of the line map.

## Table fields

The following is a description of all table fields.

The data type Date requires that the string is formatted according to the rules of date formats.

Fields with variable field names are marked with square brackets.

### prefs.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
ProjectName	Name of project	String	Example: Hamburg Railway
LineColorRed	Standard color of the line, Red value of RGB-notation.	Number	0...255
LineColorGreen	Standard color of the line, Green value of RGB-notation.	Number	0...255
LineColorBlue	Standard color of the line, Blue value of RGB-notation.	Number	0...255

### stations.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
ID	Unique index to the station.	Number	1...[Index of last station]
Station	Name of the station	String	Example: „Main Station“

### lines.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
ID	Unique index to the line. This value is also used to construct the table names for the table „ttc_#.ptf“. Example: „ttc_1.ptf“ for ID=1.	Number	1...[Index of last line]
Line	Name of the line	String	Example: „S31“

## daygroups.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
ID	Unique index to access the group	Number	1...[index of last group]
Group	Short name of the group of days used within the program	String	Example: „MO-FR“
Days	7 character string, one character per weekday, starting with Monday. A value of “1” indicates the line is running at this day, a value of “0” indicates the line is not running at this day of week.	String	Example: „1111100“ for Monday through Friday
Text	Text of the group of days in long format.	String	Example: „Monday - Friday”

## line\_graphic.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineID	Index of the line(see lines.ptf)	Number	[Field ID from lines.ptf]
ColorRed	Color of the line, Red value of RGB-notation.	Number	0...255
ColorGreen	Color of the line, Green value of RGB-notation.	Number	0...255
ColorBlue	Color of the line, Blue value of RGB-notation.	Number	0...255

## line\_stations.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineID	Index of the line(see lines.ptf)	Number	[Field ID from lines.ptf]
LineStationNumber	Sequence number of station per line	Number	1...[last station on line]
StationID	Index to station (see stations.ptf)	Number	[Field ID from stations.ptf]

## line\_connections.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
ID	Unique index to access the connection. This value is also used to construct the table names for the table „tt_#.ptf“ . Example: „tt_1.ptf“ for ID=1.	Number	1...[Index of last connection]
LineID	Index for the line (see lines.ptf)	Number	[Field ID from lines.ptf]
DayGroupID	Index to the Group of days (see daygroups.ptf)	Number	[Field ID from daygroups.ptf]
Direction	Direction (1 oder 2)	Number	1...2

## [tt\_#.ptf]

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
StationID	Index of the station (see stations.ptf)	Number	[Field ID from stations.ptf]
DayGroupID	Index to the Group of days (see daygroups.ptf)	Number	[Field ID from daygroups.ptf]
Direction	Direction (1 oder 2)	Number	1...2
Position	Position of the station within the time schedule. The schedule is defined by fields DayGroupID and Direction. The value correlates to the field name in the associated table of schedules (see the table tt_#.ptf).	Number	1...[last Station]

**[tt\_#.ptf]**

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
ID	Sequence number of the trip.	Number	1...[last trip]
[1...last station within the schedule table]	1 field per station for the time within the schedule.	Number	Values smaller than -1 indicate an index from intervals.ptf. A value of -1 indicates no stop at this station. Values from 0 to 1439 are the time values in minutes. Values from 1440 to 2879 indicate a time value for the next day if the line runs across the 24 hour boundary.

**Intervals.ptf**

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
ID	Unique index for the time interval.	Number	1...[Index of last interval]
Interval	Time of interval in minutes.	Number	Example: 10 if the line runs every 10 minutes.



**[Projektname.ppr]**

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
DataStandard	Internet name of the data standard for this data model	String	'PTraffic' or 'PTraffic Pro'
DataVersion	Version number of the data standard for this data model	String	Example: 1.0
PTFVersion	PTF-Version. For details see <a href="http://www.publicsql.org">www.publicsql.org</a>	String	Example: 1.0
ProgName	Internal program name of the program generating the data	String	'PTraffic' or 'PTraffic Pro'
ProgVersion	Internal program version of Ptraffic.	String	Example: 1.0.2
ProgType	Program type (Full version, Beta, Test version ...)	String	„Full“ or „Beta“ or „Test“
MaxDriveMinutes	Maximum drive time between 2 adjacent stations to check in the schedule editor.	Number	Initial Value: 720
LastSave	Date and time of last save of the project settings. The current version only changes the date after changing project settings.	Date	Example: 2011-04-14 14:08:40

The following tables are used only in the data model of PTraffic Pro.

### line\_maps.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
ID	Unique index to access a line map.	Number	1...[Index of last line map]
Name	Name of the line map	String	Example: „London train map“

### line\_map\_prefs.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineMapID	Index number of the line map (see line_maps.ptf)	Number	[Field ID from line_maps.ptf]
Width	Width of the line map in pixels	Number	Example: 1024
Height	Height of the line map in pixels	Number	Example: 768
BackgroundColorRed	Background Color of the line, Red value of RGB-notation.	Number	0...255
BackgroundColorGreen	Background Color of the line, Blue value of RGB-notation.	Number	0...255
BackgroundColorBlue	Background Color of the line, Red value of RGB-notation.	Number	0...255
BackgroundImageOn	Switch to toggle the display of a background picture.	Boolean	true = Show background picture false = Use background colors instead of a picture
BackgroundImage	File name of the background picture bitmap.	String	Example: „D:\Data\map.bmp“
LineRasterWidth	Width of the grid in pixels. Stations and lines can only be drawn at grid points.	Number	1... [smaller than Width and Height]

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineDefaultColor	Switch to inherit line color settings from line settings.	Boolean	true = inherit color from line settings false = use color from line map settings
LineColorRed	Line color: Red value of RGB-notation.	Number	0...255
LineColorGreen	Line color: Green value of RGB-notation.	Number	0...255
LineColorBlue	Line color: Blue value of RGB-notation.	Number	0...255
LineDrawWidth	Line width in pixels	Number	Minimum is 1
LineTextPosStart	Display line text at start of line	Boolean	true = show line text false = no line text
LineTextPosEnd	Display line text at end of line	Boolean	true = show line text false = no line text
LineTextPosOther	This is not yet supported in PTraffic Pro! Switch to display line text at any position of a line	Boolean	true = show line text false = no line text
LineTextFontCharset	Character set used for line text (Windows)	Number	Default is 1 to choose the character set from name and size.
LineTextFontName	Font name used for line text	String	Example: „Arial“
LineTextFontSize	Font size used for line text in pt.	Number	Example: 8 (small font) or 20 (large font)
LineTextFontStyleBold	Bold text used for line text.	Boolean	true = bold false = not bold
LineTextFontStyleItalic	Italic text used for line text.	Boolean	true = italic false = not italic
LineTextFontStyleUnderline	This is not yet supported in PTraffic Pro! Underline text used for line text.	Boolean	true = underline false = no underline

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineTextFontStyleStrikeOut	This is not yet supported in PTraffic Pro! Strike-through text used for line text.	Boolean	true = strike-through false = no strike-through
LineTextDefaultColor	Inherit line text color settings from line settings.	Boolean	true = inherit color from line settings false = use color from line map settings
LineTextColorRed	Color for line text: Red value of RGB-notation.	Number	0...255
LineTextColorGreen	Color for line text: Green value of RGB-notation.	Number	0...255
LineTextColorBlue	Color for line text: Blue value of RGB-notation.	Number	0...255
LineTextDefaultBackgroundColor	Inherit background color settings from line settings.	Boolean	true = inherit color from line settings false = use color from line map settings
LineTextBackgroundColorRed	Background color for line text: Red value of RGB-notation.	Number	0...255
LineTextBackgroundColorGreen	Background color for line text: Green value of RGB-notation.	Number	0...255
LineTextBackgroundColorBlue	Background color for line text: Blue value of RGB-notation.	Number	0...255
LineTextDistance	Distance between line text and line in pixels	Number	
VehicleColorRed	Color for vehicle: Red value of RGB-notation.	Number	0...255
VehicleColorGreen	Color for vehicle: Green value of RGB-notation.	Number	0...255

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
VehicleColorBlue	Color for vehicle: Blue value of RGB-notation.	Number	0...255
StationFontCharset	Character set used for station text (Windows)	Number	Default is 1 to choose the character set from name and size.
StationFontColorRed	Color for station text: Red value of RGB-notation.	Number	0...255
StationFontColorGreen	Color for station text: Green value of RGB-notation.	Number	0...255
StationFontColorBlue	Color for station text: Blue value of RGB-notation.	Number	0...255
StationFontName	Font name used for station text	String	Example: „Arial“
StationFontSize	Font size used for station text in pt.	Number	Example: 8 (small font) or 20 (large font)
StationFontStyleBold	Bold text used for station text.	Boolean	true = bold false = not bold
StationFontStyleItalic	Italic text used for station text.	Boolean	true = italic false = not italic
StationFontStyleUnderline	Underline text used for station text.	Boolean	true = underline false = no underline
StationFontStyleStrikeOut	Strike-through text used for station text.	Boolean	true = strike-through false = no strike-through
StationWEPosition	Position of station text relative to the line on horizontal line sections	Number	0 = above the line 1 = below the line
StationWEOffsetX	Offset of station text relative to the line on horizontal line sections in pixels	Number	positive value = move to the right negative value = move to the left
StationWEOffsetY	Position of station text relative to the line on vertical line sections in pixels	Number	positive value = move down negative value = move up

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
StationWETextDirection	Text alignment of station text relative to the station symbol for horizontal line sections	Number	0 = left of station 1 = centered 2 = right of station
StationWERotation	Text rotation of station text relative to the station symbol for horizontal line sections in degrees clockwise	Number	Example: 0 = horizontal 45 = diagonal down -90 = vertical up
StationNSPosition	Position of station text relative to the line for vertical line sections	Number	0 = left of line 1 = right of line
StationNSOffsetX	Horizontal offset of station text relative to the line for vertical line sections in pixels	Number	positive value = move to right negative value = move to left
StationNSOffsetY	Vertical offset of station text for vertical line sections in pixels	Number	positive value = move down negative value = move up
StationNSTextDirection	This is not yet supported in PTraffic Pro!	Number	always 0
StationNSRotation	Text rotation of station text for vertical line sections in degrees clockwise.	Number	Example: 0 = horizontal 45 = diagonal down -90 = vertical up
StationNWSEPosition	Position of station text for diagonal line sections (from left upper to right lower) in relation to the line	Number	0 = above the line 1 = below the line
StationNWSEOffsetX	Horizontal offset of station text for diagonal line sections (from left upper to right lower) in pixels.	Number	positive value = move to right negative value = move to left

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
StationNWSEOffsetY	Vertical offset of station text for diagonal line sections (from left upper to right lower) in pixels.	Number	positive value = move down negative value = move up
StationNWSETextDirection	This is not yet supported in PTraffic Pro!	Number	always 0
StationNWSERotation	This is not yet supported in PTraffic Pro! Text rotation (from left upper to right lower) of station text, clockwise.	Number	always 0
StationSWNEPosition	Position of station text for diagonal line sections (from left lower to right upper) in relation to the line	Number	0 = above the line 1 = below the line
StationSWNEOffsetX	Horizontal offset of station text for diagonal line sections (from left lower to right upper) in pixels.	Number	positive value = move to right negative value = move to left
StationSWNEOffsetY	Vertical offset of station text for diagonal line sections (from left lower to right upper) in pixels.	Number	positive value = move down negative value = move up
StationSWNETextDirection	This is not yet supported in PTraffic Pro!	Number	always 0
StationSWNERotation	This is not yet supported in PTraffic Pro! Text rotation (from left lower to right upper) of station text, clockwise.	Number	always 0
MultiStationFontCharset	Character set used for transfer-station text (Windows)	Number	Default is 1 to choose the character set from name and size.

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
MultiStationFontColorRed	Text color of transfer stations text: Red value of RGB-notation.	Number	0...255
MultiStationFontColorGreen	Text color of transfer stations text: Green value of RGB-notation.	Number	0...255
MultiStationFontColorBlue	Text color of transfer stations text: Blue value of RGB-notation.	Number	0...255
MultiStationFontName	Font name used for transfer station text	String	Example: „Arial“
MultiStationFontSize	Font size used for transfer station text	Number	Example: 8 (small font) or 20 (large font)
MultiStationFontStyleBold	Bold text used for transfer station text.	Boolean	true = bold false = not bold
MultiStationFontStyleItalic	Italic text used for transfer station text.	Boolean	true = italic false = not italic
MultiStationFontStyleUnderline	Underline text used for transfer station text.	Boolean	true = underline false = no underline
MultiStationFontStyleStrikeOut	Strike-through text used for transfer station text.	Boolean	true = strike-through false = no strike-through
MultiStationRoundSelfPos	Use round symbol with stations on same position	Boolean	true = round symbol false = square symbol
MultiStationTextInheritSelfPos	For transfer stations: Text alignment and direction of station text at the same position is equal to station text which are no transfer stations.	Boolean	true = use text alignment and direction as specified for non-transfer stations. false = use text alignment and direction as specified for transfer stations.
MultiStationRoundParallel	For transfer stations: Use of rounded symbol on parallel lines with stations on the same height.	Boolean	true = use rounded symbol false = use square symbol



<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
MultiStationAutoPos	This is not yet supported in PTraffic Pro!	Boolean	always false
MultiStationPosition	For transfer stations: Position of station text relative to the station symbol.	Number	0 = right side, above 1 = right side, center 2 = right side, below 3 = left side, above 4 = left side, center 5 = left side, below 6 = above, left 7 = above, center 8 = above, right 9 = below, left 10 = below, center 11 = below, right
MultiStationAlign	For transfer stations: Alignment of text	Number	0 = align left 1 = align center 2 = align right
MultiStationOffsetX	For transfer stations: Horizontal offset of station text in pixels.	Number	positive value = move to right negative value = move to left
MultiStationOffsetY	For transfer stations: Vertical offset of station text in pixels	Number	positive value = move down negative value = move up
MultiStationRotation	For transfer stations: Clockwise rotation of station text in degrees	Number	Example: 0 = horizontal 45 = diagonal down -90 = vertical up

## line\_map\_lines

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineMapID	Index to the line map (see line_maps.ptf)	Number	1...[Index of last line map]
LineID	Index for the line (see lines.ptf)	Number	[Field ID from lines.ptf]
defaultColor	Switch to inherit the line color from the settings for the line map	Boolean	true = inherit line color from line map settings false = use individual color for line map
ColorRed	Line color: Red value of RGB-notation.	Number	0...255
ColorGreen	Line color: Green value of RGB-notation.	Number	0...255
ColorBlue	Line color: Blue value of RGB-notation.	Number	0...255
DefaultWidth	This is not yet supported in PTraffic Pro! Inherit the line width from the settings for the line map	Boolean	always true to inherit line width from line map settings until further implementation
DrawWidth	Line width in pixels; Inherited from line map settings until full supported in future versions.	Number	
VehicleDefaultColor	Inherit vehicle color from line map.	Boolean	true = inherit vehicle color from line map false = use individual color for vehicles
VehicleColorRed	Color of vehicle: Red value of RGB-notation.	Number	0...255
VehicleColorGreen	Color of vehicle: Green value of RGB-notation.	Number	0...255
VehicleColorBlue	Color of vehicle: Blue value of RGB-notation.	Number	0...255

## line\_map\_line\_sections.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineMapID	Index to the line map (see line_maps.ptf)	Number	1...[Index last line map]
LineID	Index of line (see lines.ptf)	Number	[Field ID from lines.ptf]
SectionID	Index of line section	Number	0 = first section 1 = second section ...
GroupID	Index of line section group (line sections may be grouped)	Number	0 = first line section group 1 = second line section group ...
LineDirection	This is not yet supported in PTraffic Pro! Driving direction for this section	Number	Always 0 until further implementation
StartX	Horizontal position of the start point of this section on the line map	Number	
StartY	Vertical position of the start point of this section on the line map	Number	
EndX	Horizontal position of the end point of this section on the line map	Number	
EndY	Vertical position of the end point of this section on the line map	Number	
Degree	Angle of this line section in degrees in clockwise direction	Number	0 = vertical upward 45 = diagonal right up 90 = right ... 315 = diagonal left up

## line\_map\_line\_intersections.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineMapID	Index to the line map (see line_maps.ptf)	Number	1...[Index last line map]
LineID	Index for the line (see lines.ptf)	Number	[Field ID from lines.ptf]
XPos	Horizontal position of the intersection point of line sections on the line map	Number	
YPos	Vertical position of the intersection point of line sections on the line map	Number	
Section	Index of line section (SectionID from line_map_line_sections.ptf)	Number	1...[Index last section of the line]
Group	Index of line section group (GroupID from line_map_line_sections.ptf)	Number	1 = first line section group 2 = second line section group ...
Ending	Specify if the line sections is to start or end at this intersection	Boolean	true = line sections ends at intersection false = line sections starts at intersection

## line\_map\_line\_text\_visible.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineMapID	Index to the line map (see line_maps.ptf)	Number	1...[Index last line map]
LineID	Index for the line (see lines.ptf)	Number	[Field ID from lines.ptf]
Start	Show line text at start point of the line	Boolean	true = show line text false = hide line text
End	Show line text at end point of the line	Boolean	true = show line text false = hide line text
Other	This is not yet supported in PTraffic Pro! Show line text on other positions along the line	Boolean	always false until further implementation

## line\_map\_line\_text\_color.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineMapID	Index to the line map (see line_maps.ptf)	Number	1...[Index last line map]
LineID	Index for the line (see lines.ptf)	Number	[Field ID from lines.ptf]
DefaultColor	Inherit color for line text from settings of the line map	Boolean	true = inherit color from line map false = use individual color
ColorRed	Color of line text: Red value of RGB-notation.	Number	0...255
ColorGreen	Color of line text: Green value of RGB-notation.	Number	0...255
ColorBlue	Color of line text: Blue value of RGB-notation.	Number	0...255
DefaultBackgroundColor	Inherit background color for line text from settings of the line map	Boolean	true = inherit background color from line map false = use individual background color
BackgroundColorRed	Background color for line text: Red value of RGB-notation.	Number	0...255
BackgroundColorGreen	Background color for line text: Green value of RGB-notation.	Number	0...255
BackgroundColorBlue	Background color for line text: Blue value of RGB-notation.	Number	0...255

## line\_map\_line\_text\_offset.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineMapID	Index to the line map (see line_maps.ptf)	Number	1...[Index last line map]
LineID	Index for the line (see lines.ptf)	Number	[Field ID from lines.ptf]
Position	Specify which line text is to be placed	Number	1 = line text at start of line 2 = line text at end of line
SectionID	Index of line section (SectionID from line_map_line_sections.ptf)	Number	1...[Index last section of the line]
X	Horizontal offset of line text in pixels	Number	positive value = move to right negative value = move to left
Y	Vertical offset of line text in pixels	Number	positive value = move down negative value = move up

## lms\_#.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineID	Index for the line (see lines.ptf)	Number	[Field ID from lines.ptf]
LineSectionID	Index of line section (SectionID from line_map_line_sections.ptf)	Number	1...[Index last section of the line]
StationID	Index to station (see stations.ptf)	Number	[Field ID from stations.ptf]
XPos	Horizontal position of this station in the line map in pixels	Number	
YPos	Vertical position of this station in the line map in pixels	Number	

## Imisp\_#.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
LineID	Index for the line (see lines.ptf)	Number	[Field ID from lines.ptf]
IDType	Range this settings is to be used	Number	0 = for a station 1 = for a line section 2 = for all sections in the same direction
IDValue	Depending on IDType: Station (ID from stations.ptf), Section (SectionID from line_map_line_sections.ptf) or direction	Number	<b>IDType = 0:</b> [Feld ID from stations.ptf], <b>IDType = 1:</b> 1...[Index to last section of this line], <b>IDType = 2:</b> 0 = vertical 1 = horizontal 2 = diagonal (lower left to upper right) 3 =diagonal (upper left to lower right)
Position	Position of station text relative to the line	Number	0 = above (horizontal) or left (vertical) of the line 1 = below (horizontal) or right (vertical) of the line
OffsetX	Horizontal offset of station text in pixels	Number	positive value = move to right negative value = move to left
OffsetY	Vertical offset of station text in pixels	Number	positive value = move down negative value = move up
TextDirection	Text alignment of station text relative to the station symbol on horizontal line sections	Number	<b>For Horizontal line sections:</b> 0 = left of station 1 = centered 2 = right of station <b>For all other line sections:</b> always 0
Rotation	Rotation of station text in degrees clockwise	Number	Example: 0 = horizontal 45 = diagonal down -90 = vertical up

## Imimsp\_#.ptf

<b>Field name</b>	<b>Description</b>	<b>Data type</b>	<b>Content/Range</b>
StationID	Index to station (see stations.ptf)	Number	[Field ID from stations.ptf]
Position	Position of station text in relation to the station symbol	Number	0 = right side, above 1 = right side, center 2 = right side, below 3 = left side, above 4 = left side, center 5 = left side, below 6 = above, left 7 = above, center 8 = above, right 9 = below, left 10 = below, center 11 = below, right
OffsetX	Horizontal offset of station text in pixels	Number	positive value = move to right negative value = move to left
OffsetY	Vertical offset of station text in pixels	Number	positive value = move down negative value = move up
TextDirection	Text alignment of station text in relations to the station symbol.	Number	0 = left, for values 0,1,2,6,7,9,10 in field 'Position'. 1 = center, for values 7,10 in field 'Position' 2 = right, for values 3,4,5,7,8,10,11 in field 'Position'.
Rotation	Rotation of station text in degrees clockwise	Number	Example: 0 = horizontal 45 = diagonal down -90 = vertical up



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