

RELEASE NOTES

These release notes highlight some general information about SMP for ArcGIS North America TomTom 2017 Release 1 as well as the changes between 2017 Release 1 and 2016 Release 3. See the **StreetMap Premium for ArcGIS 2017 Release 1 Network Dataset Changes** section at the end of this document. The network dataset was changed to reduce unnecessary attributes in the Routing_Streets and associated feature classes and to create more easy-to-read names for attributes.

1) System Requirements:

- ArcGIS for Desktop or ArcGIS for Server 10.4.1 or later
See <http://links.esri.com/streetmap-premium/2017/sys-reqs>

2) Patches and Service Packs (strongly recommended):

- **10.4.1 Geocoding General Maintenance Patch** for addressing performance and stability issues when geocoding with ArcGIS for Desktop, Engine, and Server
See <http://links.esri.com/streetmap-premium/2017/current-patches-and-service-packs>

3) DVD Contents:

- DVD1** – Documentation folder, StreetMap_Data folder - FGDB dataset (part 1), QuickStartGuide.pdf, and Release Notes; *The NorthAmerica.gdb should contain 448 files when assembled from parts 1 through 4.*
- DVD2** – StreetMap_Data folder – FGDB dataset (part 2)
- DVD3** – StreetMap_Data folder – FGDB dataset (part 3)
- DVD4** – StreetMap_Data folder – FGDB dataset (part 4)
- DVD5** – Locators folder (part 1); *CAN, MEX, and USA *.lox and *.loc.xml files; does not contain *.loc files which are sent by Esri Customer Service along with the product license file.*
- DVD6** – Locators folder (part 2); USA_2017R1_TT_StreetAddress .lox and loc.xml
- DVD7** – Locators folder (part 3); USA_2017R1_TT_PointAddress .lox and loc.xml

Refer to the QuickStartGuide.pdf on DVD1 for more information. Note that the QuickStartGuide is now in PDF format rather than HTML.

4) Data Size:

<u>2017R1:</u>	49.6GB;	<u>2016R3:</u>	50.3GB
a. FGDB dataset	29.1GB;		29.6GB
b. Locators	20.5GB;		20.7GB

5) Dataset Changes:**FGDB**

- i. Dataset based on TomTom 2016.12 vintage.
- ii. Map Document (MXD) is provided in ArcGIS 10.4.1 version only for use with ArcGIS 10.4.1 or later versions.

Point Feature Classes

- iii. No changes

Line Feature Classes

- iv. **RestrictedTurns** - see the **StreetMap Premium for ArcGIS 2017 Release 1 Network Dataset Changes** section at the end of this document for attribute name changes and transition information from 2016 Release 3.
- v. **Routing_Streets** - see the **StreetMap Premium for ArcGIS 2017 Release 1 Network Dataset Changes** section at the end of this document for attribute name changes and transition information from 2016 Release 3. Attribute names remain unchanged in the Streets feature class.
- vi. **Signposts** - see the **StreetMap Premium for ArcGIS 2017 Release 1 Network Dataset Changes** section at the end of this document for attribute name changes and transition information from 2016 Release 3.

Polygon Feature Classes

- vii. No changes

Tables

- viii. **DailyProfiles** renamed to **Profiles**; see the **StreetMap Premium for ArcGIS 2017 Release 1 Network Dataset Changes** section at the end of this document for attribute name changes and transition information from 2016 Release 3.
- ix. **Signposts_Streets**
Dropped: ID, SEG_ID
- x. **Streets_DailyProfiles** renamed to **Streets_Profiles**; see the **StreetMap Premium for ArcGIS 2017 Release 1 Network Dataset Changes** section at the end of this document for attribute name changes and transition information from 2016 Release 3.

- xi. Streets_TMC - see the **StreetMap Premium for ArcGIS 2017 Release 1 Network Dataset Changes** section at the end of this document for attribute name changes and transition information from 2016 Release 3.

Refer to the Data Dictionary section in the Help.htm on DVD1 for more information.

6) Locator Changes:

USA_2017R1_TT_PointAddress and USA_2017R1_TT_StreetAddress locators
RuntimeMemoryLimit increased from 512MB to 1024MB.

Refer to the Geocoding addresses section 'About the address locators for geocoding' in the Help.htm on DVD1 for more information.

7) Routing/Network Dataset Changes:

- a. The cost attribute 'Minutes' now uses values from the FT_MINUTES and TF_MINUTES attributes instead of the MinutesObserved attribute which was dropped from the Routing_Streets feature class. The MinutesObserved attribute will be dropped from the Streets feature class in a future release.
- b. The existing impedance 'Minutes' should now be used in place of the existing impedance 'AverageTravelTime' as the 'AverageTravelTime' impedance will be deprecated in a future release.
- c. The cost attribute 'Travel Time' now points to the cost attribute 'Minutes' rather than the cost attribute 'AverageTravelTime' for time-neutral evaluations.
- d. 'Avoid Private Roads' restriction checked on for Walking Time and Walking Distance travel modes.
- e. Parameter 'Vehicled Weight per Axle (kilograms)' for the 'Weight per Axle Restriction' attribute renamed to 'Vehicle Weight per Axle (kilograms)'.

- f. See the **StreetMap Premium for ArcGIS 2017 Release 1 Network Dataset Changes** section at the end of this document for the network dataset attribute name changes and transition information. Please note that these are only changes to the feature classes and tables that are part of the network dataset. All impedances, restrictions, and travel modes available in routing dialogs (i.e., Network Dataset Properties, Find Route tool dialog, and Network Analyst Route Properties) remain the same.

Refer to the Routing section 'About the routing services' in the Help.htm on DVD1 for more information.

8) Deprecations:

None

StreetMap Premium for ArcGIS 2017 Release 1 Network Dataset Changes

For 2017 Release 1, the StreetMap Premium for ArcGIS file geodatabase (FGDB) DVD product network dataset has changed. The goals of the change were to reduce unnecessary attributes in the Routing_Streets and associated feature classes and create more easy-to-read names for attributes.

Please note that these are only changes to the feature classes and tables that are part of the network dataset. All impedances, restrictions, and travel modes available in routing dialogs (i.e., Network Dataset Properties, Find Route tool dialog, and Network Analyst Route Properties) remain the same.

This document explains the attribute changes and transition information from 2016 Release 3 to 2017 Release 1. The order of some attributes also changed, so users should consult the 2017 Release 1 DVD product help.htm file to see those changes. Note that attributes that were renamed or removed in the Routing_Streets feature class remain unchanged in the Streets feature class which is not part of the network dataset.

The feature classes and tables that are part of the network dataset (Routing_ND) include: Routing_Streets, Signposts, RestrictedTurns, Routing_ND_Junctions, Routing_Streets_Override, and the tables DailyProfiles/Profiles, Streets_DailyProfiles/Streets_Profiles, and Streets_TMC. The tables below show the attribute name changes (in blue text) between 2016 Release 3 feature classes and tables and 2017 Release 1 feature classes and tables, along with some explanatory notes.

Streets for Network (Routing_Streets)

2016 Release 3 Field Name	2017 Release 1 Field Name	Notes
OBJECTID	OBJECTID	
Shape	Shape	
FEATTYP		removed; remains in Streets feature class
METERS	METERS	
NET2CLASS	HIERARCHY	
FOW		removed; remains in Streets feature class
FREEWAY		removed; remains in Streets feature class
BACKRD	RST_BACK_ROAD	
RDCOND	PAVED; RST_POOR_CONDITION	road conditions split into two attributes
PRIVATERD	PUBLIC_ROAD	

F_ELEV	F_ZLEV	
T_ELEV	T_ZLEV	
CARRIAGE	CARPOOL_ROAD; EXPRESS_LANE	carriageway types split into two attributes
NTHRUTRAF	RST_THROUGH_TRAFFIC	
FULLNAME	FULL_STREET_NAME	
PREFIX	STREET_PREFIX_DIR	
PRETYPE	STREET_PREFIX_TYPE	
NAME	STREET_NAME	
TYPE	STREET_TYPE	
SUFFIX	STREET_DIR	
NAME_DIR	STREET_NAME_DIRECTION	
FULLNAME1	FULL_STREET_NAME_ALT1	
PREFIX1	STREET_PREFIX_DIR_ALT1	
PRETYPE1	STREET_PREFIX_TYPE_ALT1	
NAME1	STREET_NAME_ALT1	
TYPE1	STREET_TYPE_ALT1	
SUFFIX1	STREET_DIR_ALT1	
NAME_DIR1	STREET_NAME_DIRECTION_ALT1	
FULLNAME2	FULL_STREET_NAME_ALT2	
PREFIX2	STREET_PREFIX_DIR_ALT2	
PRETYPE2	STREET_PREFIX_TYPE_ALT2	
NAME2	STREET_NAME_ALT2	
TYPE2	STREET_TYPE_ALT2	
SUFFIX2	STREET_DIR_ALT2	
NAME_DIR2	STREET_NAME_DIRECTION_ALT2	
FULLNAME3	FULL_STREET_NAME_ALT3	
PREFIX3	STREET_PREFIX_DIR_ALT3	
PRETYPE3	STREET_PREFIX_TYPE_ALT3	
NAME3	STREET_NAME_ALT3	
TYPE3	STREET_TYPE_ALT3	
SUFFIX3	STREET_DIR_ALT3	
NAME_DIR3	STREET_NAME_DIRECTION_ALT3	
FULLNAME4	FULL_STREET_NAME_ALT4	
PREFIX4	STREET_PREFIX_DIR_ALT4	
PRETYPE4	STREET_PREFIX_TYPE_ALT4	
NAME4	STREET_NAME_ALT4	
TYPE4	STREET_TYPE_ALT4	
SUFFIX4	STREET_DIR_ALT4	
NAME_DIR4	STREET_NAME_DIRECTION_ALT4	
COUNTRY_NAME	ADMIN0_NAME	
ORDER1_NAME	ADMIN1_NAME	
ROAD_CL	ROAD_CLASS	

TimeZoneID	TimeZoneID	
ManeuverClass	MANEUVER_CLASS	
DRIVING_SIDE	DRIVING_SIDE	
FT_RESTR_01	FT_RST_BICYCLE	
TF_RESTR_01	TF_RST_BICYCLE	
FT_RESTR_02	FT_RST_ROAD_UNDER_CONSTR	
TF_RESTR_02	TF_RST_ROAD_UNDER_CONSTR	
FT_RESTR_04	FT_RST_AUTOMOBILES	
TF_RESTR_04	TF_RST_AUTOMOBILES	
FT_RESTR_05	FT_RST_RESIDENTAL_VEHICLE	
TF_RESTR_05	TF_RST_RESIDENTAL_VEHICLE	
FT_RESTR_06	FT_RST_TAXIS	
TF_RESTR_06	TF_RST_TAXIS	
FT_RESTR_07	FT_RST_BUSES	
TF_RESTR_07	TF_RST_BUSES	
FT_RESTR_09	FT_TOLLWAY	
TF_RESTR_09	TF_TOLLWAY	
FT_RESTRICTED_TRUCK	FT_RST_TRUCKS	
TF_RESTRICTED_TRUCK	TF_RST_TRUCKS	
FT_RESTRICTED_COMMERCIAL	FT_RST_COMMERCIAL_VEHICLE	
TF_RESTRICTED_COMMERCIAL	TF_RST_COMMERCIAL_VEHICLE	
FT_RCAT_DA_50_1	FT_RST_WEIGHT	
TF_RCAT_DA_50_1	TF_RST_WEIGHT	
FT_RCAT_DB_50_1	FT_RST_WEIGHT_PER_AXLE	
TF_RCAT_DB_50_1	TF_RST_WEIGHT_PER_AXLE	
FT_RCAT_DG_50_1	FT_RST_LENGTH	
TF_RCAT_DG_50_1	TF_RST_LENGTH	
FT_RCAT_DI_50_1	FT_RST_TRAILER_LENGTH	
TF_RCAT_DI_50_1	TF_RST_TRAILER_LENGTH	
FT_RCAT_DO_50_1	FT_RST_WIDTH	
TF_RCAT_DO_50_1	TF_RST_WIDTH	
FT_RCAT_DP_50_1	FT_RST_HEIGHT	
TF_RCAT_DP_50_1	TF_RST_HEIGHT	
FT_RCAT_LHAZ_50_1	FT_RST_ANY_HAZMAT	
TF_RCAT_LHAZ_50_1	TF_RST_ANY_HAZMAT	
FT_RCAT_LHAZ_50_4	FT_RST_PREF_HAZMAT	
TF_RCAT_LHAZ_50_4	TF_RST_PREF_HAZMAT	
RCAT_PREFERRED_TRUCK	FT_RST_PREF_TRUCK	uses two fields to model restriction
	TF_RST_PREF_TRUCK	uses two fields to model restriction
RCAT_RESTRICTED_2	FT_RST_TRUCK_DELIVERY_ONLY	uses two fields to model restriction

	TF_RST_TRUCK_DELIVERY_ONLY	uses two fields to model restriction
FT_WeekdayMinutes	FT_WEEKDAY_MINUTES	
TF_WeekdayMinutes	TF_WEEKDAY_MINUTES	
FT_WeekendMinutes	FT_WEEKEND_MINUTES	
TF_WeekendMinutes	TF_WEEKEND_MINUTES	
FT_AllWeekMinutes	FT_MINUTES	
TF_AllWeekMinutes	TF_MINUTES	
FT_TruckMinutes	FT_TRUCK_MINUTES	
TF_TruckMinutes	TF_TRUCK_MINUTES	
RST_PEDESTRIANS	RST_PEDESTRIANS	
Shape_Length	Shape_Length	
	FERRY	added
	CONTROLLED_ACCESS	added
	RST_WALKWAY	added
	RST_AUTHORITIES_ROAD	added
	RST_PEDESTR_ZONE	added
	RST_SERVICE_ROAD	added

Signposts (Signposts)

2016 Release 3 Field Name	2017 Release 1 Field Name	Notes
OBJECTID	OBJECTID	
Shape	Shape	
ExitName	ExitName	
Branch[0...9]	Branch[0...9]	
Branch[0...9]Dir	Branch[0...9]Dir	
Branch[0...9]Lng	Branch[0...9]Lng	
Toward[0...9]	Toward[0...9]	
Toward[0...9]Lng	Toward[0...9]Lng	
ID		removed
Shape_Length	Shape_Length	

Turn Restrictions (RestrictedTurns)

2016 Release 3 Field Name	2017 Release 1 Field Name	Notes
OBJECTID	OBJECTID	
Shape	Shape	
Edge1End	Edge1End	

2017 Release 1

11 May 2017

Edge[1...30]FCID	Edge[1...30]FCID	
Edge[1...30]FID	Edge[1...30]FID	
Edge[1...30]Pos	Edge[1...30]Pos	
VT_11	RST_AUTOMOBILES	
VT_12	RST_RESIDENTAL_VEHICLES	
VT_16	RST_TAXIS	
VT_17	RST_BUSES	
VT_50	RST_TRUCKS	
RB_2	RST_GATE_KEY	
RB_3	RST_GATE_PERMISSIONS	
ID		removed
AltID[1...30]		removed
Shape_Length	Shape_Length	

Network System Junctions (Routing_ND_Junctions)

No changes

Override Points (Routing_Streets_Override)

No changes

Daily Profiles (DailyProfiles) renamed Profiles (Profiles)

2016 Release 3 Field Name	2017 Release 1 Field Name	Notes
OBJECTID	OBJECTID	
ProfileID	PROFILE_ID	
SpeedFactor_[0000...2355]	SpeedFactor_[0000...2355]	

Streets Daily Profiles (Streets_DailyProfiles) renamed Streets Profiles (Streets_Profiles)

2016 Release 3 Field Name	2017 Release 1 Field Name	Notes
OBJECTID	OBJECTID	
EdgeFCID	EdgeFCID	

2017 Release 1

11 May 2017

EdgeFID	EdgeFID	
EdgeFrmPos	EdgeFrmPos	
EdgeToPos	EdgeToPos	
NETWORK_ID		removed
VAL_DIR		removed
SPFREEFLOW	BASE_SPEED	
SPWEEKDAY		removed
SPWEEKEND		removed
SPWEEK		removed
PROFILE_1	PROFILE_SUN	
PROFILE_2	PROFILE_MON	
PROFILE_3	PROFILE_TUE	
PROFILE_4	PROFILE_WED	
PROFILE_5	PROFILE_THU	
PROFILE_6	PROFILE_FRI	
PROFILE_7	PROFILE_SAT	

Streets TMC (Streets_TMC)

2016 Release 3 Field Name	2017 Release 1 Field Name	Notes
OBJECTID	OBJECTID	
EdgeFCID	EdgeFCID	
EdgeFID	EdgeFID	
EdgeFrmPos	EdgeFrmPos	
EdgeToPos	EdgeToPos	
TMC	TMC	
ID		removed
RDSTMC		removed
TMCPATHID		removed