

RELEASE NOTES

These release notes highlight some general information about SMP for ArcGIS Middle East and Africa HERE (MAHR) 2017 Release 1 as well as the changes between 2017 Release 1 and 2016 Release 1. See the additional **StreetMap Premium for ArcGIS 2017 Release 1 Network Dataset Changes** section at the end of this document as the network dataset is now the same as the network dataset in the StreetMap Premium mobile map packages (available through ArcGIS Pro or ArcGIS Online).

1) System Requirements:

- ArcGIS Desktop or ArcGIS Server 10.4.1 or later
- ArcGIS Pro 2.1 or later

See <http://links.esri.com/streetmap-premium/2017/sys-reqs>

2) Patches and Service Packs:

- **10.4.1 Geocoding General Maintenance Patch** for addressing performance and stability issues when geocoding with ArcGIS Desktop, Engine, and Server

See <http://links.esri.com/streetmap-premium/2017/current-patches-and-service-packs>

3) My Esri Download or Media Contents:

- MAHR_2017R1_Documentation.7z** - Documentation folder (contains Help.htm) QuickStartGuide and Release Notes files
- MAHR_2017R1_FGDB.7z.[001...00n]** - MXD and StreetMap_Data folders
- MAHR_2017R1_Locators.7z** - Locators folder with *.lox and *.loc.xml files; *does not contain the *.loc files which are sent by Esri Customer Service (depending on the geography licensed) along with the product license file.*

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

4) Data Size:

<u>2017R1:</u>		<u>2016R1:</u>	
a.	FGDB dataset	13.33GB;	11.24GB
		10.90GB;	9.03GB
b.	Locators	2.43GB;	2.21GB

5) Dataset Changes:

FGDB

- i. Dataset based on HERE 2017 Q2 vintage
- ii. Map Document (MXD) is provided in ArcGIS 10.4.1 version only for use with 10.4.1 or later versions.
- iii. MXD symbolizes the OneWayArrows feature class at 0 to 5k scales to show direction of travel on one-way streets.
- iv. MXD symbolizes the ROADLEVEL attribute in the Streetscarto feature class at 0 to 100k scales to depict at-grade roads, tunnels, and bridges.
- v. Country name attribute changes:
 - 'Uninhabited Island' to 'French Southern and Antarctic Lands'
 - 'Uninhabited Island' to 'Heard and McDonald Islands'

Point Feature Classes

- vi. **CityPOI** attributes
 - Added: DISPLAY_LAT, DISPLAY_LON
- vii. **MajorCityPOI** attributes
 - Added: DISPLAY_LAT, DISPLAY_LON
- viii. **DistanceMarkers** feature class added

Line Feature Classes

- ix. **OneWayArrows** feature class added to show direction of travel on one-way streets in the MXD.
- x. **Routing_Streets** feature class is now the same as the Routing_Streets feature class in the StreetMap Premium mobile map packages. 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 1. Attributes names remain unchanged in the Streets feature class.
- xi. **RestrictedTurns** feature class is now the same as the RestrictedTurns feature class in the StreetMap Premium mobile map packages. 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 1.
- xii. **Signposts** feature class is now the same as the Signposts feature class in the StreetMap Premium mobile map packages. 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 1.

- xiii. **Streets** attributes

Added: PEDESTRIAN_PREFERRED, STAIRS_TRAVERSAL

Polygon Feature Classes

- xiv. No changes

Tables

- xv. **Link_TMC** renamed to **Streets_TMC**; the table is now the same as the table in the StreetMap Premium mobile map packages. 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 1.
- xvi. **Patterns** renamed to **Profiles**; the table is now the same as the table in the StreetMap Premium mobile map packages. 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 1.
- xvii. **POI_Contact** attributes
Added: E164
- xviii. **Signposts_Streets** attributes
Removed: Link_ID, Sign_ID, DestNumber
- xix. **Streets_Patterns** renamed to **Streets_Profiles**; the table is now the same as the table in the StreetMap Premium mobile map packages. 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 1.

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

6) Locator Changes:

No changes

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

7) **Routing/Network Dataset Changes:**

- a. Added restriction attributes 'Avoid Roads Unsuitable for Pedestrians', 'Avoid Stairways' and 'Preferred for Pedestrians'.
- b. 'Avoid Roads Unsuitable for Pedestrians', and 'Preferred for Pedestrians' restrictions checked on for Walking Time and Walking Distance travel modes.
- c. A small number of pedestrian virtual connections and supplemental geometries have been added to the Routing_Streets and Streets feature classes. However, some of the attribute domains for these geometries were defined inconsistently between the two feature classes. For example, some attribute values were left empty in the Streets feature class, instead of being calculated "N" as they were in the Routing_Streets feature class. Network analysis using these segments is not affected. However, if performing queries on these segments, use the Routing_Streets feature class instead of the Streets feature class. The attribute domains will be made consistent between the two feature classes in the next release.
- d. The logic for modeling where trucks are allowed at all times versus where trucks are allowed only when making deliveries has changed: the attributes FT/TF_RST_TRUCKS equal 'Y' represent road segments where trucks are prohibited at all times; the attributes FT/TF_RST_TRUCK_DELIVERY_ONLY equal 'Y' represent road segments where trucks are allowed to make deliveries in the local vicinity.
- e. The network dataset is now the same as the network dataset in the StreetMap Premium mobile map packages (available through ArcGIS Pro or ArcGIS Online). See the additional **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 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) product network dataset is now the same as the network dataset from the StreetMap Premium mobile map packages (available through ArcGIS Pro or ArcGIS Online). The goals of the change were to use the same network dataset in both data products/formats, 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 1 to 2017 Release 1. The order of some attributes also changed, so users should consult the 2017 Release 1 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 Links_TMC/Streets_TMC, Patterns/Profiles, and Streets_Patterns/Streets_Profiles. The tables below show the attribute name changes (in blue text) between 2016 Release 1 feature classes and tables and 2017 Release 1 feature classes and tables, along with some explanatory notes.

Streets for Network (Routing_Streets)

2016 Release 1 Field Name	2017 Release 1 Field Name	Notes
OBJECTID	OBJECTID	
Shape	Shape	
StreetName	FULL_STREET_NAME	
StreetNameLng		removed; remains in Streets feature class
StreetNamePrefix	STREET_PREFIX_DIR	
StreetTypeBefore	STREET_PREFIX_TYPE	
StreetNameBase	STREET_NAME	
StreetTypeAfter	STREET_TYPE	
StreetNameSuffix	STREET_DIR	
Meters	METERS	
FuncClass		removed; remains in Streets

		feature class
ContrAcc	CONTROLLED_ACCESS	
FerryType	FERRY	
Paved	PAVED	
PublicAccess	PUBLIC_ROAD	
TimeZoneID	TimeZoneID	
CarpoolRoad	CARPOOL_ROAD	
ExpressLane	EXPRESS_LANE	
LEFT_ADMIN_ID		removed; remains in Streets feature class
StreetNameLat		removed; remains in Streets feature class
StreetNameLatLng		removed; remains in Streets feature class
StreetNameTrans		removed; remains in Streets feature class
StreetNameTransLng		removed; remains in Streets feature class
StreetNameDirection	STREET_NAME_DIRECTION	
StreetNameAlt1	FULL_STREET_NAME_ALT1	
StreetNamePrefixAlt1	STREET_PREFIX_DIR_ALT1	
StreetTypeBeforeAlt1	STREET_PREFIX_TYPE_ALT1	
StreetNameBaseAlt1	STREET_NAME_ALT1	
StreetTypeAfterAlt1	STREET_TYPE_ALT1	
StreetNameSuffixAlt1	STREET_DIR_ALT1	
StreetNameDirectionAlt1	STREET_NAME_DIRECTION_ALT1	
StreetNameLngAlt1		removed; remains in Streets feature class
StreetNameAlt2	FULL_STREET_NAME_ALT2	
StreetNamePrefixAlt2	STREET_PREFIX_DIR_ALT2	
StreetTypeBeforeAlt2	STREET_PREFIX_TYPE_ALT2	
StreetNameBaseAlt2	STREET_NAME_ALT2	
StreetTypeAfterAlt2	STREET_TYPE_ALT2	
StreetNameSuffixAlt2	STREET_DIR_ALT2	
StreetNameDirectionAlt2	STREET_NAME_DIRECTION_ALT2	
StreetNameLngAlt2		removed; remains in Streets feature class
StreetNameAlt3	FULL_STREET_NAME_ALT3	
StreetNamePrefixAlt3	STREET_PREFIX_DIR_ALT3	
StreetTypeBeforeAlt3	STREET_PREFIX_TYPE_ALT3	
StreetNameBaseAlt3	STREET_NAME_ALT3	
StreetTypeAfterAlt3	STREET_TYPE_ALT3	
StreetNameSuffixAlt3	STREET_DIR_ALT3	

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StreetNameDirectionAlt3	STREET_NAME_DIRECTION_ALT3	
StreetNameLngAlt3		removed; remains in Streets feature class
StreetNameAlt4	FULL_STREET_NAME_ALT4	
StreetNamePrefixAlt4	STREET_PREFIX_DIR_ALT4	
StreetTypeBeforeAlt4	STREET_PREFIX_TYPE_ALT4	
StreetNameBaseAlt4	STREET_NAME_ALT4	
StreetTypeAfterAlt4	STREET_TYPE_ALT4	
StreetNameSuffixAlt4	STREET_DIR_ALT4	
StreetNameDirectionAlt4	STREET_NAME_DIRECTION_ALT4	
StreetNameLngAlt4		removed; remains in Streets feature class
Hierarchy	HIERARCHY	
ROAD_CL	ROAD_CLASS	
ROUTE_TYPE		removed; remains in Streets feature class
SHIELD_LBL		removed; remains in Streets feature class
SHIELD_CL		removed; remains in Streets feature class
ROUTE_TYPE2		removed; remains in Streets feature class
SHIELD_LBL2		removed; remains in Streets feature class
SHIELD_CL2		removed; remains in Streets feature class
SPEED_CL	SPEED_CLASS	
F_ZLEV	F_ZLEV	
T_ZLEV	T_ZLEV	
COUNTRY_NAME	ADMIN0_NAME	
ORDER1_NAME	ADMIN1_NAME	
FT_Minutes	FT_MINUTES	
TF_Minutes	TF_MINUTES	
FT_TruckMinutes	FT_TRUCK_MINUTES	
TF_TruckMinutes	TF_TRUCK_MINUTES	
CARTO		removed; remains in Streets feature class
ROADLEVEL		removed; remains in Streets feature class
ManeuverClass	MANEUVER_CLASS	
	DRIVING_SIDE	added
F_AUTOMOBILES	FT_RST_AUTOMOBILES	
T_AUTOMOBILES	TF_RST_AUTOMOBILES	

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F_BUSES	FT_RST_BUSES	
T_BUSES	TF_RST_BUSES	
F_TAXIS	FT_RST_TAXIS	
T_TAXIS	TF_RST_TAXIS	
F_PEDESTRIANS	RST_PEDESTRIAN	
T_PEDESTRIANS		removed; uses one field to model restriction
F_TRUCKS	FT_RST_TRUCKS	
T_TRUCKS	TF_RST_TRUCKS	
F_THROUGH_TRAFFIC	RST_THROUGH_TRAFFIC	
T_THROUGH_TRAFFIC		removed; uses one field to model restriction
F_DELIVERIES	FT_RST_TRUCK_DELIVERY_ONLY	
T_DELIVERIES	TF_RST_TRUCK_DELIVERY_ONLY	
F_EMERGENCY_VEHICLES	FT_RST_EMERGENCY_VEHICLES	
T_EMERGENCY_VEHICLES	TF_RST_EMERGENCY_VEHICLES	
F_MOTORCYCLES	FT_RST_MOTORCYCLES	
T_MOTORCYCLES	TF_RST_MOTORCYCLES	
RCAT3	FT_RST_ROAD_UNDER_CONSTR	uses two fields to model restriction
	TF_RST_ROAD_UNDER_CONSTR	uses two fields to model restriction
RCAT12_AUTOMOBILES	RST_TOLL_ROAD_AUTOMOBILE	
RCAT12_TRUCKS	RST_TOLL_ROAD_TRUCKS	
F_RCAT23_41	FT_RST_HEIGHT	
T_RCAT23_41	TF_RST_HEIGHT	
F_RCAT23_42	FT_RST_WEIGHT	
T_RCAT23_42	TF_RST_WEIGHT	
F_RCAT23_43	FT_RST_WEIGHT_PER_AXLE	
T_RCAT23_43	TF_RST_WEIGHT_PER_AXLE	
F_RCAT23_44	FT_RST_LENGTH	
T_RCAT23_44	TF_RST_LENGTH	
F_RCAT23_45	FT_RST_WIDTH	
T_RCAT23_45	TF_RST_WIDTH	
F_RCAT23_81	FT_RST_KINGPIN_REAR_AXLE_LENGTH	
T_RCAT23_81	TF_RST_KINGPIN_REAR_AXLE_LENGTH	
F_RCAT23_46	FT_RST_TRUCK_TRAILERS	
T_RCAT23_46	TF_RST_TRUCK_TRAILERS	
F_RCAT23_46_04	FT_RST_SEMI_TRACTOR_TRAILERS	
T_RCAT23_46_04	TF_RST_SEMI_TRACTOR_TRAILERS	
F_RCAT23_39	FT_RST_ANY_HAZMAT	
T_RCAT23_39	TF_RST_ANY_HAZMAT	
F_RCAT23_75	FT_RST_AXLE_COUNT	

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T_RCAT23_75	TF_RST_AXLE_COUNT	
F_RCAT23_75_06	FT_RST_SINGLE_AXLE_VEHICLE	
T_RCAT23_75_06	TF_RST_SINGLE_AXLE_VEHICLE	
F_RCAT23_75_07	FT_RST_TANDEM_AXLE_VEHICLE	
T_RCAT23_75_07	TF_RST_TANDEM_AXLE_VEHICLE	
F_RCAT27_49_09	FT_RST_PREF_TRUCK	
T_RCAT27_49_09	TF_RST_PREF_TRUCK	
F_RCAT27_49	FT_RST_PREF_HAZMAT	
T_RCAT27_49	TF_RST_PREF_HAZMAT	
F_RCAT25_48	FT_RST_TRUCK_SPEED_LIMIT	
T_RCAT25_48	TF_RST_TRUCK_SPEED_LIMIT	
	RST_PEDESTRIAN_PREFERRED	added
	RST_STAIRS_TRAVERSAL	added
Shape_Length	Shape_Length	

Signposts (Signposts)

2016 Release 1 Field Name	2017 Release 1 Field Name	Notes
OBJECTID	OBJECTID	
Shape	Shape	
ExitName	ExitName	
Branch[0...6]	Branch[0...6]	
Branch[0...6]Dir	Branch[0...6]Dir	
Branch[0...6]Lng	Branch[0...6]Lng	
Toward[0...6]	Toward[0...6]	
Toward[0...6]Lng	Toward[0...6]Lng	
	Branch[7...9]	added
	Branch[7...9]Dir	added
	Branch[7...9]Lng	added
	Toward[7...9]	added
	Toward[7...9]Lng	added
Sign_ID		removed
DestNumber		removed
Shape_Length	Shape_Length	

Turn Restrictions (RestrictedTurns)

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

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Shape	Shape	
Edge1End	Edge1End	
Edge[1...30]FCID	Edge[1...30]FCID	
Edge[1...30]FID	Edge[1...30]FID	
Edge[1...30]Pos	Edge[1...30]Pos	
AltID[1...30]		removed
AUTOMOBILES	RST_AUTOMOBILES	
BUSES	RST_BUSES	
TAXIS	RST_TAXIS	
PEDESTRIANS	RST_PEDESTRIANS	
TRUCKS	RST_TRUCKS	
THROUGH_TRAFFIC	RST_THROUGH_TRAFFIC	
DELIVERIES	RST_TRUCK_DELIVERY_ONLY	
EMERGENCY_VEHICLES	RST_EMERGENCY_VEHICLES	
MOTORCYCLES	RST_MOTORCYCLES	
GATE_1	RST_GATE_KEY	
GATE_2	RST_GATE_PERMISSIONS	
RCAT26_41	RST_HEIGHT	
RCAT26_42	RST_WEIGHT	
RCAT26_43	RST_WEIGHT_PER_AXLE	
RCAT26_44	RST_LENGTH	
RCAT26_45	RST_WIDTH	
RCAT26_46	RST_TRUCK_TRAILERS	
RCAT26_46_04	RST_SEMI_TRACTOR_TRAILERS	
RCAT26_39_01	RST_HAZMAT_EXPLOSIVES	
RCAT26_39_02	RST_HAZMAT_GAS	
RCAT26_39_03	RST_HAZMAT_FLAMMABLE_LIQUID	
RCAT26_39_04	RST_HAZMAT_FLAMMABLE_SOLID	
RCAT26_39_05	RST_HAZMAT_ORGANIC	
RCAT26_39_06	RST_HAZMAT_POISON	
RCAT26_39_07	RST_HAZMAT_RADIOACTIVE	
RCAT26_39_08	RST_HAZMAT_CORROSIVE	
RCAT26_39_09	RST_HAZMAT_OTHER	
RCAT26_39_20	RST_ANY_HAZMAT_MATERIAL	
RCAT26_39_21	RST_HAZMAT_POISONOUS	
RCAT26_39_22	RST_HAZMAT_GOODS_HARMFUL_WATER	
RCAT26_39_23	RST_HAZMAT_EXPLOSIVES_FLAMABLE	
RCAT26_75	RST_AXLE_COUNT	
RCAT26_75_06	RST_SINGLE_AXLE_VEHICLE	
RCAT26_75_07	RST_TANDEM_AXLE_VEHICLE	
CONDITION_ID		removed
CONDITION_TYPE		removed
MAN_ID		removed

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TURN_TYPE		removed
GATE_TYPE		removed
Shape_Length	Shape_Length	

Network System Junctions (Routing_ND_Junctions)

No changes

Override Points (Routing_Streets_Override)

No changes

Link TMC (LinkTMC) renamed Streets TMC (Streets_TMC)

2016 Release 1 Field Name	2017 Release 1 Field Name	Notes
OBJECTID	OBJECTID	
LINK_ID		removed
EBU_COUNTRY_CODE		removed
LOCATION_TABLE_NR		removed
TMC_PATH_DIRECTION		removed
LOCATION_CODE		removed
ROAD_DIRECTION		removed
EdgeFCID	EdgeFCID	
EdgeFID	EdgeFID	
EdgeFromPos	EdgeFromPos	
EdgeToPos	EdgeToPos	
TMC	TMC	

Patterns (Patterns) renamed Profiles (Profiles)

2016 Release 1 Field Name	2017 Release 1 Field Name	Notes
OBJECTID	OBJECTID	
Pattern_ID	Profile_ID	
BaseSpeed		removed

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AverageSpeed		removed
SpeedFactor_[0000...2345]	SpeedFactor_[0000...2345]	

Streets Patterns (Streets_Patterns) renamed Streets Profiles (Streets_Profiles)

2016 Release 1 Field Name	2017 Release 1 Field Name	Notes
OBJECTID	OBJECTID	
LINK_PVID		removed
TRAVEL_DIRECTION		removed
EdgeFCID	EdgeFCID	
EdgeFID	EdgeFID	
EdgeFromPos	EdgeFromPos	
EdgeToPos	EdgeToPos	
BaseSpeed	BASE_SPEED	
U	PROFILE_SUN	
M	PROFILE_MON	
T	PROFILE_TUE	
W	PROFILE_WED	
R	PROFILE_THU	
F	PROFILE_FRI	
S	PROFILE_SAT	
AverageSpeed		removed
BaseSpeed[U...S]		removed
AverageSpeed[U...S]		removed
S_[U...S]		removed