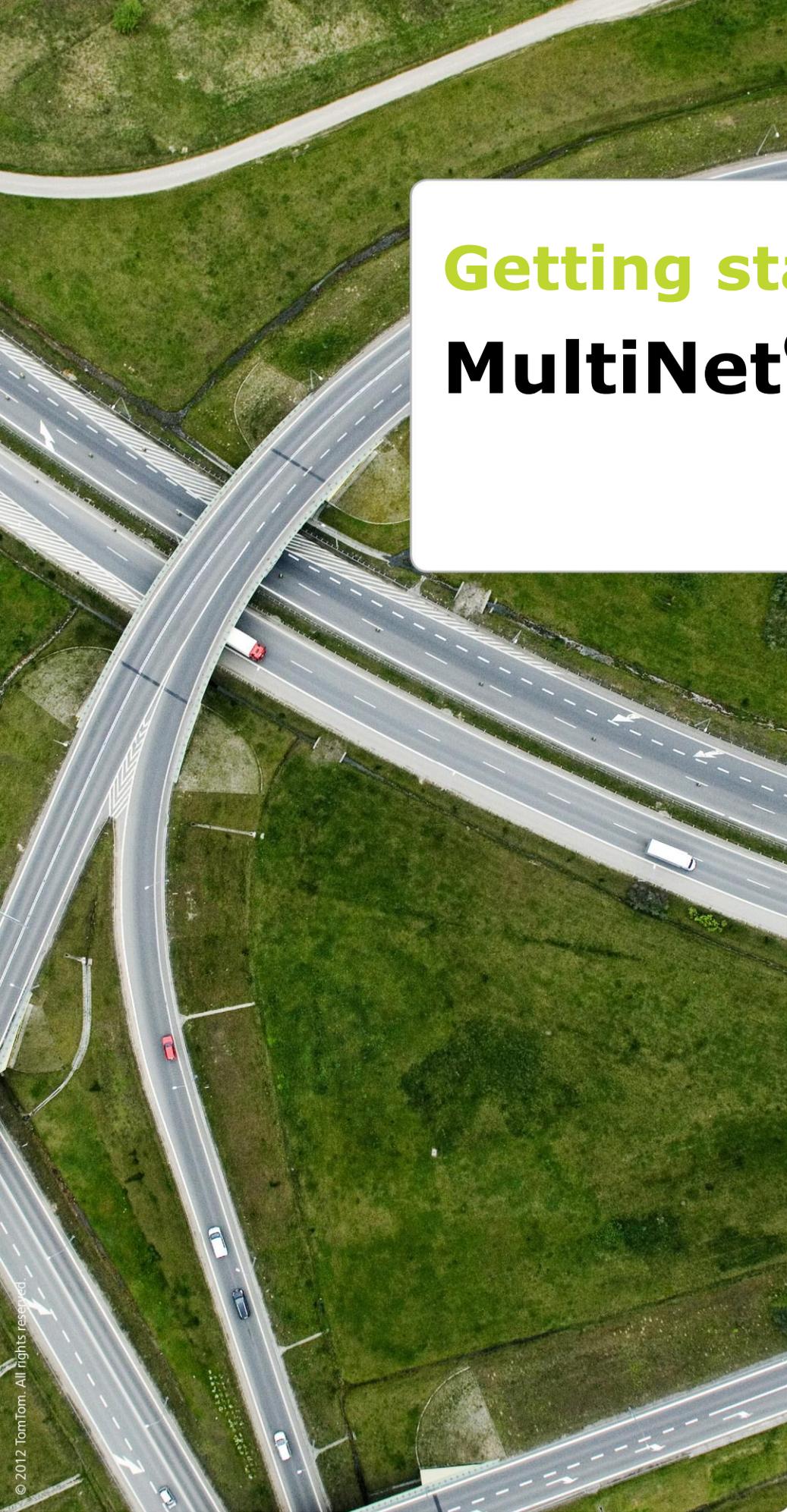


Getting started with MultiNet[®]



maps & content | real time & historical traffic | lbs



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General Information

1 Introduction

Welcome to MultiNet, the most detailed and comprehensive street network database. It is the basis for demanding applications such as turn-by-turn route guidance, traffic telematics, etc.

TomTom is committed to constantly providing high quality maps. All geographical data is continuously checked, upgraded and updated in the field. Nevertheless, TomTom always welcomes your comments and suggestions.

Furthermore, the digital map coverage is extended every day. For the availability of other regions, new product releases or all other information, please do not hesitate to contact us.

2 Purpose of the document "Getting started with MultiNet"

This document gives an overview of the available documentation and tools as well as other useful information related to this MultiNet product.

Some documents are specific for certain coverage's and are only shipped with the corresponding product. They are identified in this document with a "*".

All documentation and tools are located in the "documentation" & "components" directories.

3 Content

For the general content description of MultiNet, we refer to the [MultiNet Specifications](#).

Note that the supported content of each individual product release can vary because some features may not exist in a certain region or the database may not be fully completed for a certain region.

Features and attributes availability is described in the statistics file delivered in the "documentation" directory.

4 Delivery

For DVD deliveries, Products and its Formats or Countries can be divided over multiple discs when a delivery of the specific order is exceeding the number of one disc.

5 Document Meta Information

TITLE GETTING STARTED WITH MULTINET	
Version	3.7
Date	October 15, 2015
Author	Lies Coddens
Status	Available
Remark	Update V2.0: - Document updated for MultiNet 3.5.1 & GDS

TITLE	GETTING STARTED WITH MULTINET
	<p>Update V2.1:</p> <ul style="list-style-type: none"> - Versions in chapter "Document Versions" <p>Update V2.2:</p> <ul style="list-style-type: none"> - Adding the Seaming Kit Users Guide <p>Update V2.3:</p> <ul style="list-style-type: none"> - Versions in chapter "Document Versions" <p>Update V2.4:</p> <ul style="list-style-type: none"> - Removed reference to 2008.10 release in chapter "Product Information Tool" - Removed reference to former excel spreadsheet statistics in chapter "Statistics" - Added chapter Delivery to "General Information" chapter <p>Update V2.5:</p> <ul style="list-style-type: none"> - Added chapter "Content & Coverage overview", updated chapter "Product Information Tool" - Versions in chapter "Document Versions" <p>Update V2.6:</p> <ul style="list-style-type: none"> - Rebranded the document - Updated chapter « Content & Coverage overview », updated chapter "Tools –General" - Versions in chapter "Document Versions" <p>Update V2.7:</p> <ul style="list-style-type: none"> - Updated towards the new MN 3.6 specifications <p>Update V2.8:</p> <ul style="list-style-type: none"> - Versions in chapter "Document Versions" - Addition of new statistics format <p>Update V2.9:</p> <ul style="list-style-type: none"> - New cover image and copyright 2012 - Versions in chapter "Document Versions" - Added chapter « Abbreviation lists » - Updated chapter « Product Information Tool » : replaced « Roads with Constructions Status Flag » into « Information about Roads under Construction ». <p>Update V2.10:</p> <ul style="list-style-type: none"> - Versions in chapter "Document Versions" <p>Update V2.11:</p> <ul style="list-style-type: none"> - Chapter "Purpose of the document "Getting started with MultiNet"" and chapter "Content", replaced the reference to Documentation and Components DVD with Documentation and Components directories. - Chapter "Delivery", Added 'For DVD Delivery,' - Chapter « Format Specifications Guides », updated the description of 'MultiNet GDF and Shape Mapping documents' - Removed reference to Net Projection Tool as it's no longer maintained. - Added chapter "FGDC" - Versions in chapter "Document Versions"

TITLE	GETTING STARTED WITH MULTINET
	<p>Update V3.0:</p> <ul style="list-style-type: none"> - Copyright 2012 changed to 2013 (except for cover image) <p>Update V3.1:</p> <ul style="list-style-type: none"> - Versions in chapter "Document Versions" <p>Update V3.2:</p> <ul style="list-style-type: none"> - Updated the document to the new MN 3.6.2 Specifications - GDF Viewer User Guide added to the "User Guides" chapter - MultiNet 3.6.2 Codes Overview is added to the "Data Specifications chapter" <p>Update V3.3:</p> <ul style="list-style-type: none"> - Updated the document to the new MN 3.6.3 Specifications - Versions in chapter "Document Versions" - Copyright 2013 changed to 2014 <p>Update V3.4:</p> <ul style="list-style-type: none"> - Versions in chapter "Document Versions" <p>Update V3.5:</p> <ul style="list-style-type: none"> - Document updated for MultiNet 3.6.4 <p>Update V3.6:</p> <ul style="list-style-type: none"> - Document updated for MultiNet 3.6.5 <p>Update V3.7:</p> <ul style="list-style-type: none"> - Document versions finalized for MultiNet 3.6.5

Overview Specifications Documentation

1 General

Located in folder \documentation\mn\specifications:

- The **MultiNet and Enhancements directory structure and File Naming** (abbreviation GDS). This document contains the Specifications for the file naming, directory structure and product partitioning of the MultiNet and its enhancements, for all formats.
- **The Administrative Hierarchy and ISO country codes**: this document describes per country the Administrative Hierarchy, the ISO Country and deviations as well as the language codes and the language codes specific to phonemes.

2 User Guides

Located in folder: \documentation\mn\specifications\user_guides:

- A general **MultiNet User** guide providing general descriptions of MultiNet Features and Attributes, data and file formats, some "how-to-use" information and links to other related documentation.
- The **TMC Location Code Table User Guide**: provides information and definitions of TMC locations and codes.
- The **Seaming kit user guide** gives a brief description of the Conversion Records.
- The **GDF Viewer User Guide** describes how to get started with the GDF viewer. Furthermore an extensive user manual is included.

3 Data Specifications

The MultiNet Data Specifications are located in folder: \documentation\mn\specifications\data_spec:

- The **MultiNet 3.6.5 Specifications** describe which real world information should be captured in the MultiNet and how the different information components are mutually related. These specifications describe an optimal database produced as Street Network coverage, as Interconnecting Network coverage or as Major Road Network coverage, all containing a maximum amount of information.
- The **MultiNet 3.6.5 Codes Overview** gives an overview of all codes with its Feature Relationship and Attribute Names.
- The **MultiNet Specification changes document**: this document describes the changes in data, data model and format specifications between subsequent versions of the MultiNet specifications.
- **The Global Route Types document**: this document in pdf and excel format gives a list of all Route types used in the MultiNet product.

The Locality Index Specification can be found in folder: \documentation\li\specifications\data_spec:

- The **Locality Index Specifications** describe this component product. The Locality Index product can be used to prioritize locality names from administrative, postal and other sources.

4 Format Specifications Guides

Located in folder: \documentation\mn\specifications\format_spec:

- **MultiNet ASCII Relational Specifications**: This document contains descriptions for each data file, file attributes, codes, and file structure for GDF-AR format. Themes, Features, Attributes, Relationship and Value details are contained in the Allcodes database on this documentation DVD.
- **MultiNet ASCII Sequential Specifications**: This document contains descriptions for each data record in GDF-AS format. Themes, Features, Attributes, Relationship and Value details are contained in the Allcodes database on this documentation DVD.
- **MultiNet Shapefile Specifications**: This document contains record layouts for each data file, file attributes, codes, and file structure in Shapefile format.
- **MultiNet Oracle Specifications**: This document contains record layouts for each data file, file attributes, codes, and file structure in Oracle format.
- The **MultiNet GDF and Shape Mapping documents**: The purpose of this document is to supply users an easy way to map features and attributes between MultiNet formats and subsequent Specification versions.

5 Allcodes

The following tool is located in subfolder: \documentation\mn\specifications\allcodes.

- The **Allcodes database** includes all the feature codes, attributes and relations that have been used to develop this MultiNet release. As default product, 'MultiNet 3.6.5 extended' should be selected, which includes features, attributes and relations mentioned in the MultiNet Standard Specifications 3.6.5. These features can also be found in the appendix of the Data Model but in case of inconsistency between Allcodes database and spec documents or incompleteness, the Allcodes database is the valid reference as this is updated with each major product release.

Overview Product Information

1 Product Release Notes

Located in folder: \documentation\mn\release_notes\release_notes:

The **Product Release Notes** describe all data updates and format changes since the previous release. They also describe other pertinent information about the database content, specification variances as well as product highlights and deviations.

2 Dataset Map

Located in folder: \documentation\mn\release_notes\plots:

The **Dataset map** gives a geographical overview of all delivered datasets in High Resolution jpg format.

3 Product Information Tool

Located in folder: \documentation\mn\release_notes\product_information:

The Product Information tool contains i.a:

- Country information:
 - Countries covered
 - Bounding Box coordinates
 - Details of all municipalities with their higher administrative area
 - Municipality tool that provides lookup functionality in which GDF dataset, volume and section or Shapefile folder a certain admin area is to be found.
- Coverage Information
 - Coverage upgrade reports of individual municipalities that have improved coverage status
- Content Information: Information about Roads under Construction
- List of all Datasets in the product
- Partitioning information and file sizes

The product information tools are delivered in Access 2003 format in order to allow representation of names in UTF-8. For some coverages, not all info is available.

4 Content & Coverage Overview

Located in folder: \documentation\mn\release_notes\product_information:

This Content & Coverage document contains a lot of new and very useful information.

The Content and Coverage sheet contains the latest available information on:

- Data per region (EUR / MEA / NAM (also contains LAM & MEX) / APAC)
- Country information: general country information like population figures etc.

- Coverage information: the network profile of the countries, including a tab with the delta information on the releases (previous in PI tool)
- Km stats per country (previous in PI tool)
- House Number information
- Detailed information on our display products
- Guidance information per release: TMC tables / Verified Speeds / Lane info (previous in PI tool)
- Information on our logistics product (max dimension / hazardous materials)
- POI info: both coremap and MN POI product

* note that this is not committed, but reflects our current planning

5 Statistics

Located in folder: \documentation\mn\statistics.

- The product statistics for both GDF and Shapefile/OSL formats are delivered in Access 2000, 2003 and 2007 database format and machine readable .txt format.

Tools

1 General

Following tool can be made available: Please contact a TomTom Customer Support Officer to request it:

- **Net Split:** The Net Split tool can split up GDF AS data into smaller GDF AS files. It is also available for the GDF AR format. Both versions are available on request.

2 GDF Viewer

Located in folder: \documentation\mn\tools\GDF_viewer:

- **GDF viewer:** The GDF viewer+ is a tool, for the Microsoft Windows operating system, that displays the content of GDF AS files as map and text data. The user can display the map by selecting any of the many point, line, and area styles available. Or a user can read the data and record structure of any map feature. The GDF Viewer also has the ability to create a new map file, called a "slice," by copying data from a longitude-latitude bounding-box area; from a polygon area; or from a GDF Section of the original file.

3 Gnuzip

The following tool is located on every DVD in folder: \components\gnuzip.

- All MultiNet data files on the DVD are zipped, using the GNU zip compression utility, and have an additional extension *.gz. The **gzip compression utility** is delivered on every data DVD.

Abbreviation lists

1 General

Abbreviation lists give an overview of name parts per country/language and their most commonly used abbreviation.

The goal of name abbreviations is to enable the user to substitute an abbreviated word in place of a whole word for a particular application or use.

As of the 2012.03 MultiNet releases, the abbreviation lists are located in the folder:
`\components\mn\abbreviation_list`

2 Documentation

There is a User Guide for Name Abbreviations available in the folder:
`\documentation\mn\abbreviation_list\specifications\user_guide`

Statistics are available in the folder:

`\documentation\mn\abbreviation_list\statistics\`

FGDC

1 General

FGDC (Federal Geographic Data Committee) metadata is available for this MultiNet release. It is available in XML and HTML format and is located in the directory: components\mn\fgdc.

For more information, please consult the FGDC website:

<http://www.fgdc.gov/standards/projects/FGDC-standards-projects/metadata/base-metadata>

2 Documentation

There is a User Guide for FGDC metadata available in the directory:

\documentation\mn\fgdc\specifications\user_guides

Document versions

Please make sure you have a copy of the documents and check if you have the proper version:

	MULTINET GDF-AR	MULTINET GDF-AS	MULTINET SHAPEFILE	MULTINET ORACLE
MultiNet Specifications	V3.6.5			
MultiNet Format Specifications	V3.6.5	V3.6.5	V4.8	
MN GDF versus MN Shape Mapping	GDF V3.6.5 vs Shape V4.8			
Locality Index	V1.5			
Locality Index Mapping document	V1.4 vs V1.5			