What's New in ADMS-Urban RML 1.4?
May 2016

ADMS-Urban RML 1.4 is the latest general release of CERC's state of the art system for multi-scale modelling of pollutant dispersion. ADMS-Urban RML 1.4 contains a number of improvements and new features, most notably:

- Compatibility with the recently released ADMS-Urban 4.0, allowing use of advanced modelling features such as advanced street canyons, road tunnels and vents;
- Compatibility with the new Run Manager version 1.7;
- Improved consistency between ADMS-Urban modelling of gridded emissions and regional modelling; and
- An updated interface including new features such as a list of recently used files.

This document contains details of the changes implemented since the previous version of ADMS-Urban RML (version 1.2, September 2015). Also contained in this document are instructions for installing ADMS-Urban RML and upgrading from previous model versions.

IMPORTANT NOTE FOR THE UPGRADE OF MODEL RUNS

Any ADMS-Urban RML input files (*.npl*) need to be upgraded before they can be used with ADMS-Urban RML 1.4. Full details of how to upgrade these files is given in this document.

The advice about setting up ADMS-Urban input files (*.upl*) given in the ADMS-Urban RML User Guide has been updated, particularly regarding the emissions which should be included in the main nesting run with gridded emissions. Please refer to Section 4.4 of the ADMS-Urban RML User Guide for more details.

In this release

This version of ADMS-Urban RML 1.4 includes an updated RML Controller (including interface and utilities) and User Guide. The ADMS-Urban RML User Guide can be found in the '*Documents*' sub-directory of the ADMS-Urban RML 1.4 install directory. This version of ADMS-Urban RML also requires ADMS-Urban 4.0 and Run Manager 1.7.

Installation

Before installing ADMS-Urban RML 1.4

Log on to your computer as Administrator, and uninstall any previous version of ADMS-Urban RML by selecting **Programs and features** from the Windows Control Panel.

Installing ADMS-Urban RML 1.4

If you have not already done so, log on to your computer as Administrator.

ADMS-Urban RML will either have been supplied by download link or on DVD. Follow the appropriate instructions:

- **Download:** Extract the downloaded *.zip* file to a local directory. In Explorer, browse to this directory and double-click on the file '*setup.exe*'.

- **DVD:** Insert the ADMS-Urban RML installation DVD and the install program should start automatically. If it does not, browse to locate the DVD in Explorer and double-click on the file '*setup.exe*'.

Follow the instructions on the screen. Further details are given in Section 2.2 of the User Guide, a copy of which can be found in the ADMS-Urban RML installation files in *.pdf* format.

Upgrading your input files

ADMS-Urban RML system input (*.npl*) files

Any ADMS-Urban RML input (*.npl*) files must also be updated so that they are in file version 4 format. To do this:

1. In Explorer, make a backup copy of the file.
2. Open the *.npl* file in the ADMS-RML Controller interface.
3. Click **Yes** to allow the interface to upgrade the file.
4. Save the file.

The ADMS-Urban RML 1.4 interface can open .npl *files in file version 1 or 3 format, but will always save files as file version 4.* .npl *files must be file version 4 for use with ADMS-Urban RML 1.4.*

New Features and Major changes

ADMS-Urban

1. Compatibility with the recently released ADMS-Urban 4.0, allowing use of advanced modelling features such as advanced street canyons, road tunnels and vents. Please refer to the What's New in ADMS-Urban 4.0 document for more details.

2. Improved consistency between ADMS-Urban modelling of gridded emissions and regional modelling by switching off interpolation of grid source concentrations when only running individual grid cells.

Run Manager

3. Compatibility with the new Run Manager version 1.7. Please refer to the What's New in Run Manager 1.7 document for more details.

ADMS-Urban RML Controller

4. The ADMS-Urban RML Controller interface has been updated, including the addition of new features such as a list of recently used files and user-friendly screen titles.

Minor Changes

ADMS-Urban RML Controller

1. An error will now be issued by the controller if a nesting background run completes successfully but does not produce a *.pst* file due to incorrect output settings.

2. The Run Manager version reported to the ADMS-Urban RML log file has been corrected.

Utilities

3. The CombineCOF utility has been made more efficient for output files containing large numbers of output locations.

4. The RMLBackground utility has been updated for compatibility with output from ADMS-Urban 4.0.

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