Elgin roadworks.org Traffic Management App Service Specification

August 2014 Version

1 Overview

This document provides a non-technical summary of the functional components of the Elgin roadworks.org Traffic Management App (TM App) Service.

1.1 TM App is a cloud based solution for Local Authorities and other organisations in the planning and execution of temporary traffic management measures. TM App has a map based user interface providing a range of tools for users to define and publish temporary traffic management interventions such as road closures and diversion routes. The system enables users to generate documentation such as Traffic Management Plans and legal orders and generate email alerts.

2 User Roles

Two user roles exist:

2.1 Administrator users. Administrator users have access to all functionality including the Settings part of TM App and are able to configure user defaults, templates, etc. (see Section 7). Administrator users can edit all users' Traffic Management Plans within their organisation.

2.2 Users. Regular users have access to the normal functionality of TM App but do not have access the Settings part of TM App. Users are able to view and copy but not edit other users' Traffic Management Plans within their organisation.

3 Creating Traffic Management Plans

3.1 TM App enables users to create and manage temporary traffic management information for Streetworks, Public Events and Incidents.

3.2 Multiple temporary traffic management interventions can be grouped under a single Traffic Management Plan (TMP).

3.3 User can define the location, extent, time and date, enforcement pattern and associated attribute information for the following temporary traffic management interventions:

- Road closure
- Diversion route
- HGV Diversion route
- Temporary one-way
- Advisory and preferred access route
- Lane closure
- Footway closure
- Temporary speed limit
- Weight restriction
- Suspension of weight restriction
- Clearway / no stopping
- Tow away zone
- Temporary parking restriction
- Suspension of parking restriction
- Gritting in progress
- Accident
- Incident

3.4   Geographic location and extents are defined using map based tools.

3.5   User can associate TMP with an existing EToN notice.

3.6   Dates/times can be inherited from a parent EToN notice, set at the TMP level or at independently for each individual intervention.

3.7   Variable enforcement patterns can be set, e.g. to allow for night-time or weekend only closures.

3.8   Once TMP is created it can be published to roadworks.org, either immediately, or [user defined] days prior to the commencement date of the TMP.

3.9   Once published, user can generate URL link for the TMP, providing deep link to the TMP on roadworks.org.

3.10   User can generate corresponding QR code for TMP URL.

3.11   User can invoke Twitter web app with Tweet message prefilled with TMP details including URL.

3.12   User can invoke Facebook web app.

4   Creating Documents

4.1   User can generate documents using derived variables from the TMP creation process. Documents can be used to generate Legal Orders (e.g. TTROs), public notices and internal memos, etc.

4.2   Documents are generated from predefined templates. Only Administrator users can create templates.

4.3   When creating a template Administrator user can insert a logo and apply formatting to the document.

4.4   Variables derived from the TMP creation process are available to drop into the template. These include:

- TMP attributes (including name and URL)
- Dates / times for TMP and individual TM interventions
- Geographical information
- Affected streets, etc (see list below)

4.5   When creating a document from a template, user can edit / overwrite all text including text defined in the template, and can alter document formatting.

4.6   Variables derived from the TMP creation process are available to drop into the document. These include:

- Affected streets
- Affected Wards
- Affected Parishes
- Affected Districts
- Affected Local Highway Authorities
- Affected USRNs

4.7   User can insert map screenshot into document.

4.8   Document saved in PDF format.

4.9   User can optionally publish document to roadworks.org.

5 Creating Email Alerts

5.1 User can create automated email alerts for TMPs, either from a blank email or from a predefined template.

5.2 Email alert creation and editing functionality is similar to corresponding document functionality.

5.3 Emails can be sent immediately or scheduled for future sending.

5.4 Emails can be sent to individual recipients and / or predefined recipient lists.

5.5 Administrator User can create and manage email contacts and recipient lists.

6 Editing and Managing Traffic Management Plans

6.1 User can retrieve previously created TMPs using Search & Edit functionality.

6.2 User can filter TMPs by the following:

- Most recent
- Within visible map area
- By user
- By type (Streetworks / Public Events / Incidents)
- By TMP name
- Status (Active / Planned / Expired)

6.3 User can sort TMPs by the following:

- Last modified
- Publish date
- TMP name

6.4 Once a TMP has been selected user can view (read only) , create a copy (clone) or edit the TMP (Active TMPs only).

6.5 Active TMPs are those that are currently in force or have expired within the past 24 hours. Once the 24 hours has elapsed user can only create a copy of the TMP and edit the necessary details in order to republish it.

7 Replicate to Streetworks Register

7.1 TM App has an EToN subsystem that can generate an EToN notice / permit application for each traffic management intervention in order to maintain a copy of the data in the streetworks register.

7.2 Changes to the TMP will automatically result in notice transactions being issued to the register to reflect the change.

7.3 Users can select/deselect this option for individual interventions. It can be set by Administrator users to be on or off by default.

8   Administrator Settings

8.1   Administrator users can access the setting section of TM App. The following functionality are supported:

- Number of days prior to the start date when TMPs will be published to roadworks.org.*
- Default road closure description text (e.g. "Emergency access will be maintained at all times.")*
- Copy recipient email(s) – these email recipients will be automatically cc'd on email alerts.
- Replicate to streetworks register – this will cause the "Replicate to streetworks register" option to be selected by default.*
- Create and edit Document Templates.
- Add logos for Document Templates.
- Create and edit Email Contacts and Contact Lists.
- Create and edit Email Templates.

* Note: items with asterisks denote user can override setting.

9   System Requirements

TM App has been developed with strict adherence to HTML5 standards and best practice. It supports all modern standards-compliant web browsers on PC and Mac and the majority of browsers on all mainstream mobile devices. Document and email generation functionality is not currently supported on tablet and mobile devices.

10   Further Information

Further information and technical specifications for functional components of the roadwork.org Traffic Management App can be provided on request.

Please contact us at info@elgin.org.uk