Release Notes

TMPA – Traffic Management Plan Automation

Version 1.0.2

20 January 2022

Table of Contents

1 Introduction

1.1 Scope

The release notes detail the capabilities introduced by this release. They also document any known issues or limitations in the product and any administrative instructions that are specific to this release and not recorded elsewhere.

1.2 Purpose of Release

This release is the second release of TMPA and is intended to provide a number of bug fixes/enhancements to the v.1.0.0 Minimum Viable Product.

The release components and versions are:

- pdf-generator: 1.0.2
- tmpa-application: 1.0.2
- tmpa-plan-runner: 1.0.2

1.3 Release History

Release	Date	Purpose of release/description
1.0.0	13 Dec 2021	This first release of TMPA and is intended to be a Minimum Viable Product.
1.0.1	N/A	A re-release of 1.0.0 in order to confirm automated release increment working correctly. No release notes were necessary nor produced.
1.0.2	20 Jan 2022	This release provides a number of bug fixes/enhancements to the v.1.0.0 Minimum Viable Product.

1.4 System Requirements

TMPA is accessed securely over the internet via HTTPS. The role *Platform Administrator* (reserved for use by 1Spatial) will create a tenant with a specific subdomain URL upon formal request.

At the time of release, and by way of example, the demonstration environment can be found at:

https://1spatial.tmpa-app-demo.1spatial.com/

1.4.1 1Integrate

The version of 1Integrate that it has been tested against is listed below

1Integrate Version	1Integrate Operating System
1Integrate 3.0.1	Not applicable, as 1Integrate is deployed in 1Spatial's Azure cloud instance.

1.4.2 Operating Systems

This version of TMPA – Traffic Management Plan Automation has been tested on the following platforms:

Data Gateway Supported Operating System
Not applicable, as 1Integrate is deployed in 1Spatial's Azure cloud instance.

1.4.3 Web Browsers

This product works with most of the recent versions of Chrome, Firefox and Edge. The specific versions that have been tested for this release are:

Browser
Microsoft Edge 96
Google Chrome 96

Other browsers or versions can be used, but support requests will only be progressed if the issue can be replicated on a supported browser.
Note that TMPA has **not** been tested against Apple Safari.

2 Release details

2.1 New functionality in this release

No new functionality has been introduced at this release. Instead, this release includes primarily bug fixes and refinements to existing capabilities.

2.2 Capabilities in this release

This is the list of the JIRA stories, spikes, and tasks completed for this release.

Issue Type	Components	Issue key	Summary
Story	App	TMPA-1933	Release TMPA v1.0.2
Story	App	TMPA-1934	On Other Details panel, change pedestrian count to per minute
Task	App	TMPA-1700	Acceptance Test - Restricted root component test
Task	App	TMPA-1806	Acceptance Test - view and manage tenant status
Task	App	TMPA-1868	Acceptance Test - Zoom to Location & Separate Gazatteer Test
Task	App	TMPA-1869	Acceptance Test - Use second SWA for successful deletion test
Task	App	TMPA-1870	Acceptance Test - Validate Auto Draft Failure
Task	App	TMPA-1911	Acceptance Test - investigate test failures
Task	App	TMPA-1916	Acceptance Test - remove the create plan tests dependency from plan tests
Technical task	Platform	TMPA-1812	Run tmpa rules tests automatically against devops environment
Technical task	Platform	TMPA-1842	Get the latest rules deploying in environments - fix nexus login
Story	Rules	TMPA-179	Task 1 - Issue - I will be working on the highway or in an area such as railway station
Story	Rules	TMPA-1855	Front-end testing
Story	Rules	TMPA-1909	TMPA user notes
Story	Rules	TMPA-605	Framework for Action testing automation
Story	Rules	TMPA-715	Construction Existence Rule
Story	Rules	TMPA-759	Action - Pedestrian Direction Signs
Story	Rules	TMPA-815	Testing of output
Task	Rules	TMPA-1857	Knowledge sharing session with one.network
Task	Rules	TMPA-1915	Release rules for TMPA v1.0.2
Technical task	Rules	TMPA-278	Task 1 - Subtask - Import of public areas data (NSG/NLPG)
Technical task	Rules	TMPA-279	Task 1 - Subtask - Creation of works area (Squaring of works area, assigning correct attributes)
Technical task	Rules	TMPA-280	Task 1 - Subtask - Creation of additional attributes (type of area) to Works Area Oracle table
Technical task	Rules	TMPA-281	Task 1 - Subtask - Creation of 1Integrate action to check area type and populate area type attribute

2.3 Bugs fixed in this release

This is the list of the bugs raised during internal testing and subsequently completed for this release.

Issue Type	Components	Issue key	Summary
Bug	Rules	TMPA-1848	Test Case 26 - Missing Road Works Narrows Ahead
Bug	Rules	TMPA-1849	Test Case 36 - Working Space Pedestrian Barriers in wrong place
Bug	Rules	TMPA-1852	Test Case 81 - Multiple layout assigned different traffic control
Bug	Rules	TMPA-1853	Test Case 82 - Wrong Traffic Control and Missing Signage
Bug	Rules	TMPA-1854	Missing signage - no missing signage error
Bug	Rules	TMPA-1860	Test Case 70 - Stop/Go - Task Error
Bug	Rules	TMPA-1861	Test Case 52 - No Layout - Unique Road Layout
Bug	Rules	TMPA-1862	Test Case 47 - Task Error and Missing Signage
Bug	Rules	TMPA-1863	Test Case 10 - Task Error
Bug	Rules	TMPA-1865	Test Case 14 - Missing traffic lights ahead sign
Bug	Rules	TMPA-1867	Task Error - No Such Object
Bug	Rules	TMPA-1872	Task Error - No Geom Present/Line_bearing _at_point
Bug	Rules	TMPA-1876	Duplicate WAIT_STOP signs
Bug	Rules	TMPA-1880	Bearings in correct for second run
Bug	Rules	TMPA-1881	Bearings missing on traffic control sign
Bug	Rules	TMPA-1883	Pedestrian Barriers not on edge of working space
Bug	Rules	TMPA-1885	Front End Test - Unique Road Layout
Bug	Rules	TMPA-1886	Front End Test - Unique Road Layout
Bug	Rules	TMPA-1887	Required property 'Bearing' not found
Bug	Rules	TMPA-1888	Missing Signage
Bug	Rules	TMPA-1893	Front End Test - Task Error
Bug	Rules	TMPA-1895	Line of sight not correct
Bug	Rules	TMPA-1910	one.network - task error
Bug	Rules	TMPA-1913	Test Case 10 - Commit Error
Bug	Rules	TMPA-1926	Road Closure - Safety Zone not deleted
Bug	Rules	TMPA-1928	Road Closure - Safety Zone not deleted
Bug	Rules	TMPA-1929	Road Closure - Session Task Error
Bug	Rules	TMPA-1930	Road Closure - Session Task Error

2.4 Known bugs outstanding in this release

This is the list of the known bugs raised during internal testing and currently outstanding at this release. These are intended to be addressed in the subsequent release. Although classed as bugs, many are refinements to the rules logic to handle extraordinary road layouts.

Issue Type	Components	Issue key	Summary
Bug	App	TMPA-1128	Acceptance Tests - File upload tests break if run from directory containing spaces

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Bug	App	TMPA-1589	Clipping lines on the icon layers
Bug	App	TMPA-1803	Plate scaling on map view
Bug	App	TMPA-1882	Bring scale bar to the front
Bug	Rules	TMPA-1403	Test Case 11 - Safety Zone Extent and Pass Width incorrect
Bug	Rules	TMPA-1619	T junction box assignment
Bug	Rules	TMPA-1825	Road Closure - Missing signage and wrong working space
Bug	Rules	TMPA-1826	Footway diverted on carriageway plus - No footway
Bug	Rules	TMPA-1828	Missing Traffic Lights
Bug	Rules	TMPA-1830	Wait Here incorrect on inflated Guide Island
Bug	Rules	TMPA-1831	Wait Here 3 way control
Bug	Rules	TMPA-1847	Test Case 93/94 - Unique Road Layout
Bug	Rules	TMPA-1850	Test Case 77 - Lead in taper not created correctly
Bug	Rules	TMPA-1851	Test Case 78 - Missing Signage
Bug	Rules	TMPA-1864	Test Case 27 - Missing Signage
Bug	Rules	TMPA-1877	Curb - Path Pass Width not calculated
Bug	Rules	TMPA-1889	Front End Test - Unique Road Layout
Bug	Rules	TMPA-1890	Duplicate Traffic Signals
Bug	Rules	TMPA-1891	Front End Test - Unique Road Layout - Works in middle of Road
Bug	Rules	TMPA-1892	Front End Test - Unique Road Layout - T-junction
Bug	Rules	TMPA-1894	Front End Testing - Working space Barrier Incorrect
Bug	Rules	TMPA-1896	Front End Test - Unique Road Layout - T-junction
Bug	Rules	TMPA-1897	Extra Pedestrian Barriers - Multiple Excavation
Bug	Rules	TMPA-1903	Road Works Ahead Arrow Incorrect
Bug	Rules	TMPA-1904	Traffic Lights pushed further along road
Bug	Rules	TMPA-1905	Missing Signage - Road Closed Except Certain Traffic
Bug	Rules	TMPA-1906	Road Closure Arrow plates wrong direction
Bug	Rules	TMPA-1907	Task Error - Multiple Excavation crossing Road Centre Line
Bug	Rules	TMPA-1908	Road Works Ahead/ Road Closed ahead Arrow Incorrect
Bug	Rules	TMPA-1925	Session Task Error
Bug	Rules	TMPA-1927	Road Closure - Session Task Error
Bug	Rules	TMPA-1931	Session Task Error
Bug	Rules	TMPA-1932	No Layout - Unique Road Layout
Bug	Rules	TMPA-1938	Road Closure except certain traffic - Wrong Pedestrian Barrier

2.5 Other items and refinements outstanding in this release

This is the list of other items and refinements that are currently outstanding at this release. These are intended to be addressed in subsequent releases.

Issue Type	Components	Issue key	Summary
Task	App	TMPA-1871	Auto Draft Acceptance Tests - Test Cases
Task	App	TMPA-1873	Acceptance tests - don't rely on an empty database

Task	App	TMPA-1879	Don't log 'expected' FetchFailureException
Task	App	TMPA-1914	Autodraft Tests - Automate CI Tests (Jenkins)
Story	Docs	TMPA-1917	Docs: Techpubs-ify the current User Guide
Story	Docs	TMPA-1918	Docs: Release notes page for TMPA
Story	Platform	TMPA-147	Test and validate end to end deployment of multi-tenant data tier
Story	Platform	TMPA-151	Automate testing
Story	Platform	TMPA-164	Network / Network Security / Monitoring / Alerting / Backup / DR / Authentication & Authorisation / Scaling (Horizontal & Vertical)
Story	Platform	TMPA-165	Configuration Management / Release Manangement / Automated Deployment
Story	Platform	TMPA-169	Define scaling process / auto-scaling configuration for 1Integrate App Service tier
Story	Platform	TMPA-1705	Define observability requirements for the full solution
Story	Platform	TMPA-1706	Implement observability in Platform
Story	Platform	TMPA-171	Smoke Test TMPA REST endpoint interfaces
Story	Platform	TMPA-1774	Align 1Integrate TMPA Deployment scripts with Product 1Integrate Deployment scripts
Story	Platform	TMPA-1922	Provision of a TMPA beta-testing environment
Technical task	Platform	TMPA-1703	Build Orchestration pipeline to progress to the different environments
Technical task	Platform	TMPA-1921	Deploy TMPA 1.0.2 onto all environments
Story	Rules	TMPA-1642	Create and populate works_area.USRN
Story	Rules	TMPA-1643	Create and populate works_area.road_name
Task	Rules	TMPA-1707	Test NSG services and identify changes to rules that need to be made

2.6 Candidate backlog items for next release

This is the list of items intended to be addressed in the subsequent release, subject to backlog refinement and prioritisation.

Issue Type	Components	Issue key	Summary
Story	Docs	TMPA-1917	Docs: Techpubs-ify the current User Guide
Story	Docs	TMPA-1918	Docs: Release notes page for TMPA
Task	App	TMPA-1871	Auto Draft Acceptance Tests - Test Cases
Task	App	TMPA-1873	Acceptance tests - don't rely on an empty database
Task	App	TMPA-1879	Don't log 'expected' FetchFailureException
Task	App	TMPA-1914	Autodraft Tests - Automate CI Tests (Jenkins)
Story	Platform	TMPA-147	Test and validate end to end deployment of multi-tenant data tier
Story	Platform	TMPA-151	Automate testing
Story	Platform	TMPA-164	Network / Network Security / Monitoring / Alerting / Backup / DR / Authentication & Authorisation / Scaling (Horizontal & Vertical)
Story	Platform	TMPA-165	Configuration Management / Release Manangement / Automated Deployment
Story	Platform	TMPA-169	Define scaling process / auto-scaling configuration for 1Integrate App Service tier
Story	Platform	TMPA-1705	Define observability requirements for the full solution

Story	Platform	TMPA-1706	Implement observability in Platform
Story	Platform	TMPA-171	Smoke Test TMPA REST endpoint interfaces
Story	Platform	TMPA-1774	Align 1Integrate TMPA Deployment scripts with Product 1Integrate Deployment scripts
Story	Platform	TMPA-1922	Provision of a TMPA beta-testing environment
Technical task	Platform	TMPA-1703	Build Orchestration pipeline to progress to the different environments
Bug	Rules	TMPA-1403	Test Case 11 - Safety Zone Extent and Pass Width incorrect
Bug	Rules	TMPA-1619	T junction box assignment
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Bug	Rules	TMPA-1925	Session Task Error
Bug	Rules	TMPA-1927	Road Closure - Session Task Error
Bug	Rules	TMPA-1931	Session Task Error
Bug	Rules	TMPA-1932	No Layout - Unique Road Layout
Bug	Rules	TMPA-1938	Road Closure except certain traffic - Wrong Pedestrian Barrier
Story	Rules	TMPA-1642	Create and populate works_area.USRN
Story	Rules	TMPA-1643	Create and populate works_area.road_name
Task	Rules	TMPA-1707	Test NSG services and identify changes to rules that need to be made

2.7 Candidate backlog items for next release + 1

This is the list of items intended to be addressed in the next subsequent release, subject to backlog refinement and prioritisation.

Issue Type	Components	Issue key	Summary
Bug	App	TMPA-1128	Acceptance Tests - File upload tests break if run from directory containing spaces
Bug	App	TMPA-1589	Clipping lines on the icon layers
Bug	App	TMPA-1803	Plate scaling on map view
Bug	App	TMPA-1882	Bring scale bar to the front
Story	App	TMPA-1126	Anonymise User
Story	App	TMPA-1136	SWA Codes and private developers
Story	App	TMPA-1431	Default SWA Organisation
Story	App	TMPA-1626	Sign orientation aligned to road/approaches
Story	App	TMPA-1631	Check that underlying feature is a valid one for street works excavation
Story	App	TMPA-1645	Layout generated description
Story	App	TMPA-1650	Upgrade MUI to v5
Story	App	TMPA-1832	Review redundant signs and plates
Story	App	TMPA-1899	Map resets when switching between Plans and Create Plan
Story	App	TMPA-1900	Remember the last map position for the user
Story	App	TMPA-1901	Remembering the last SWA and other options entered
Story	App	TMPA-1902	Default values for Create Plan wizard
Story	App	TMPA-1912	Implement Cloud Service Terms click-through for new tenant
Story	App	TMPA-1923	Dashboard to display plan statistics
Story	App	TMPA-1924	Dashboard to display OS Data Hub statistics
Story	App	TMPA-625	Add Permit/Information Board
Story	App	TMPA-64	Edit Feature
Story	App	TMPA-649	View Special Designations
Story	App	TMPA-65	Add Feature from Feature Palette
Story	App	TMPA-650	View Special Designations on PDF output
Story	App	TMPA-66	Delete Feature
Story	App	TMPA-67	Store Audit Data
Story	App	TMPA-68	Save Plan
Story	App	TMPA-69	COGO Editing
Task	App	TMPA-1444	Share spring code between modules where possible
Task	App	TMPA-1587	Verify barrier length calculation is correct
Task	App	TMPA-1757	Upgrade TypeScript to 4.4.4
Technical task	Platform	TMPA-1817	Session test framework changes and release
Story	QMS	TMPA-610	QMS - Consultancy - Design Specification
Story	QMS	TMPA-612	QMS - Consultancy - Data Quality Baseline Assessment Audit
Story	QMS	TMPA-613	QMS - Consultancy - Data Audit Catalogue

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Story	QMS	TMPA-616	QMS - Consultancy - User Procedure Document
Story	QMS	TMPA-617	QMS - Consultancy - Test Case Design
Bug	Rules	TMPA-1831	Wait Here 3 way control
Spike	Rules	TMPA-1665	Identifying WorksAreas in Scotland
Story	Rules	TMPA-1007	Filter Rule - Determine Task 29 Layout
Story	Rules	TMPA-1008	Action - Traffic control by Stop works sign
Story	Rules	TMPA-1009	Action - Traffic control by Temporary obstruction sign
Story	Rules	TMPA-1010	Testing of output
Story	Rules	TMPA-1011	Filter Rule - Determine Task 30 Layout
Story	Rules	TMPA-1017	Action - Single Carriageway - Traffic Lights Ahead
Story	Rules	TMPA-1018	Action - Single Carriageway - Road Narrows Ahead
Story	Rules	TMPA-1020	Action - Single Carriageway - Wait Here Signage
Story	Rules	TMPA-1021	Action - Traffic Light Placement
Story	Rules	TMPA-1027	Action - Stop/Go boards
Story	Rules	TMPA-1028	Action - Single Carriageway - Traffic Control Ahead
Story	Rules	TMPA-1029	Testing of output
Story	Rules	TMPA-1030	Filter Rule - Determine Task 31 Layout
Story	Rules	TMPA-1031	Action - Create working space
Story	Rules	TMPA-1032	Action - Road Closure Signs
Story	Rules	TMPA-1033	Action - Road Closure Barriers
Story	Rules	TMPA-1034	Testing of output
Story	Rules	TMPA-1055	Action - Signage Existence Rule
Story	Rules	TMPA-1056	Action - Signage Existence Rule
Story	Rules	TMPA-1058	Action - Signage Existence Rule
Story	Rules	TMPA-1059	Action - Signage Existence Rule
Story	Rules	TMPA-1060	Action - Signage Existence Rule
Story	Rules	TMPA-1065	Action - Signage Existence Rule
Story	Rules	TMPA-1066	Action - Signage Existence Rule
Story	Rules	TMPA-1067	Action - Signage Existence Rule
Story	Rules	TMPA-1153	Test Case Quantity Output CSV
Story	Rules	TMPA-1154	Define list of works area 'Descriptions' attribute
Story	Rules	TMPA-1155	Define list of works area 'Layout' attribute
Story	Rules	TMPA-1168	Traffic Control - Documentation
Story	Rules	TMPA-1179	Extend working space rear based on 'Depth' attribute
Story	Rules	TMPA-1191	Extend front of working space based on more than 1 works vehicle
Story	Rules	TMPA-1223	Working Space Creation - Documentation
Story	Rules	TMPA-1225	Edge of Safety Zone - Documentation
Story	Rules	TMPA-1226	Create Lead-in taper - Documentation
Story	Rules	TMPA-1227	T-Junction - Documentation
Story	Rules	TMPA-1228	Create exit taper - Documentation
Story	Rules	TMPA-1229	Preparation of Roadways - Documentation

Story	Rules	TMPA-1230	Square Works Area - Documentation
Story	Rules	TMPA-1231	No Layout - 'separate plan required'
Story	Rules	TMPA-1234	Safety Zone Create - Access to properties
Story	Rules	TMPA-1235	Cul-de-Sac/End of Terrace Creation
Story	Rules	TMPA-1236	Amend lead-in taper around corner
Story	Rules	TMPA-1240	Unable to extend working space
Story	Rules	TMPA-1252	No Layout - Documentation
Story	Rules	TMPA-1278	Test Case - Road Centre Line is less than 110m (Dual Carriageway)
Story	Rules	TMPA-1279	Test Case - Road Centre Line for End of Road Works is less than 30m (Dual Carriageway)
Story	Rules	TMPA-1281	Construction Feature - Documentation
Story	Rules	TMPA-1336	Pass Width 5 - Correct T-Junction
Story	Rules	TMPA-1483	Test case 11 - 02. Single Carriageway - Amend road_centre_line
Story	Rules	TMPA-1550	Documentation
Story	Rules	TMPA-1560	Documentation
Story	Rules	TMPA-1622	Creation of layouts using barrier length
Story	Rules	TMPA-1623	Road Closure on a T-junction when layout is on the bend
Story	Rules	TMPA-1625	4-way traffic lights
Story	Rules	TMPA-1639	Ability to cope with 1-way streets
Story	Rules	TMPA-1717	Put names on the session tasks that are more meaningful to end-users
Story	Rules	TMPA-1746	Check 4-way traffic control works
Story	Rules	TMPA-1779	Extend working space in opposite direction
Story	Rules	TMPA-1846	Restricted Access Roads
Story	Rules	TMPA-1898	More description for some of the No layout reasons
Story	Rules	TMPA-196	Task 18 - Issue - Consult specialist in TTM
Story	Rules	TMPA-723	Populate 'Lane width' attribute
Story	Rules	TMPA-769	Action - Extend working space - Path Open
Story	Rules	TMPA-770	Action - Pedestrian Direction Signs
Story	Rules	TMPA-771	Action - Pedestrian Barriers
Story	Rules	TMPA-772	Action - Pedestrian/Cycle Conflict Signs
Story	Rules	TMPA-774	Filter Rule - Determine Task 8 Layout
Story	Rules	TMPA-776	Action - Signage - Temporary footway obstruction
Story	Rules	TMPA-780	Testing of output
Story	Rules	TMPA-781	Testing of output
Story	Rules	TMPA-791	Filter Rule - Determine Task 11 Layout
Story	Rules	TMPA-792	Action - Extend working space - Path Closed
Story	Rules	TMPA-793	Action - Pedestrian Barriers
Story	Rules	TMPA-794	Action - Path Closure Signs
Story	Rules	TMPA-795	Testing of output
Story	Rules	TMPA-798	Action - Extend working space - Path Closed
Story	Rules	TMPA-799	Action - Pedestrian Barriers
Story	Rules	TMPA-800	Action - Path Closure Signs

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Story	Rules	TMPA-801	Action - Create local diversion
Story	Rules	TMPA-802	Testing of output
Story	Rules	TMPA-805	Action - Extend working space - Path Closed
Story	Rules	TMPA-806	Action - Pedestrian Barriers
Story	Rules	TMPA-807	Action - Pedestrian Direction Signs
Story	Rules	TMPA-808	Action - Create Pedestrian Crossing
Story	Rules	TMPA-809	Testing of output
Task	Rules	TMPA-1748	Add 'density' attribute to works_area
Task	Rules	TMPA-1752	Load OS density data
Task	Rules	TMPA-1819	No Layout required for large areas
Task	Rules	TMPA-1820	Triangular T-Junction
Technical task	Rules	TMPA-336	Task 18 - Subtask - Creation of additional attributes (Railway or Tramway is within 200m) to Works Area Oracle table
Technical task	Rules	TMPA-337	Task 18 - Subtask - Create message in UI to inform user that the works area is within 200m of
Technical task	Rules	TMPA-338	Task 18 - Subtask - Testing of output
Task	Testing	TMPA-1209	Disable Sonarcloud issue java:S2699 for ui-tests module

2.8 Backlog for subsequent releases

This is the list of items intended to be addressed in future releases, subject to backlog refinement and prioritisation.

Issue Type	Components	Issue key	Summary
Story	App	TMPA-100	Customise PDF Plan Templates & Components (Logo, Title, Contact details)
Story	App	TMPA-101	Build new Organisation Templates
Story	App	TMPA-102	Generate Notification Letters for Impacted Properties
Story	App	TMPA-103	Customisable Notification Letters
Story	App	TMPA-104	Export Plan for CAD
Story	App	TMPA-105	Export Plan for VR/AR
Story	App	TMPA-106	Import Plan from CAD/Legacy Systems
Story	App	TMPA-107	Traffic Management Plan for Mobile (new product)
Story	App	TMPA-1112	one.network integration
Story	App	TMPA-1165	Identify map feature
Story	App	TMPA-123	Integration with DfT Street Manager
Story	App	TMPA-124	Machine Learning & AI for TMPA
Story	App	TMPA-1634	Store user's organisation details for later use on output plan
Story	App	TMPA-1635	User's organisation details on output plan
Story	App	TMPA-1647	Show/report dimensions when digitising a Works Area
Story	App	TMPA-1648	Specify dimensions for a Works Area before placing it on the map
Story	App	TMPA-1762	DfT Street Manager integration

Story	App	TMPA-1765	Augmented reality view
Story	App	TMPA-1767	Fixed size barriers rather than barrier length
Story	App	TMPA-1768	What3Words integration for finding locations
Story	App	TMPA-1769	Viewports in PDF
Story	App	TMPA-1770	Identify the local highways authority in the interface, on the plan, on the PDF
Story	App	TMPA-1781	Generate PDF asynchronously and store historical copies with metadata
Story	App	TMPA-25	Delete Organisation
Story	App	TMPA-28	Assign Role to User
Story	App	TMPA-29	Add Credit to Organisation
Story	App	TMPA-30	Remove Credit from Organisation
Story	App	TMPA-31	Organisation Credit Dashboard View
Story	App	TMPA-34	Remove User from Organisation
Story	App	TMPA-35	Assign Role to User
Story	App	TMPA-36	View Credit Usage
Story	App	TMPA-37	Organisation Credit Dashboard View
Story	App	TMPA-38	Self-Service Purchasing Credit Packs
Story	App	TMPA-39	Credit Auto-Top Up
Story	App	TMPA-40	Self-Service Organisation Sign-Up
Story	App	TMPA-47	Map View & Spatial Filtering
Story	App	TMPA-50	Select common trench types/sizes (e.g. core and vac) from selection palette
Story	App	TMPA-58	View audit details + metadata
Story	App	TMPA-62	3D Plan Scene & Flythrough
Story	App	TMPA-623	Symbology - create symbol library
Story	App	TMPA-624	Symbology - determine symbol placement points
Story	App	TMPA-626	Reject Plan
Story	App	TMPA-636	View credit ledger for organisation
Story	App	TMPA-70	Linear Measurement Tool (multi line)
Story	App	TMPA-71	Area Measurement Tool (linear ring)
Story	App	TMPA-72	Snap Measures to Feature
Story	App	TMPA-73	Persisting Measures (Measure to Annotation)
Story	App	TMPA-74	Draw Line/Multiline
Story	App	TMPA-75	Draw Freeform Polygon
Story	App	TMPA-76	Draw Regular Polygon
Story	App	TMPA-77	Draw Text Box
Story	App	TMPA-78	Select Annotation
Story	App	TMPA-79	Delete Annotation
Story	App	TMPA-80	Edit Annotation
Story	App	TMPA-81	Save Annotations
Story	App	TMPA-82	Snap to Feature
Story	App	TMPA-85	Submit Plan

Story	App	TMPA-86	Approve Plan
Story	App	TMPA-87	Plan Archiving
Story	App	TMPA-88	Plan Review Workflow
Story	App	TMPA-89	Plan Versioning
Story	App	TMPA-92	Audit Details
Story	App	TMPA-95	Page Size Selection
Story	App	TMPA-96	Scale Selection
Story	App	TMPA-97	Toggle Layers for PDF
Story	App	TMPA-98	Organisation Equipment Cost Admin
Story	App	TMPA-99	Generate/Append Equipment Cost to Inventory
Story	Data	TMPA-118	OS AddressBase Premium
Story	Data	TMPA-119	NapTan Bus Stops
Story	Data	TMPA-121	Traffic Flow Information
Story	Data	TMPA-122	OS High Definition Roads
Story	Data	TMPA-1502	Investigate potential of Geolytix UK Road and Traffic dataset
Story	Rules	TMPA-1108	Rules to handle layouts on T-Junction
Story	Rules	TMPA-1109	Rules to handle roundabouts
Story	Rules	TMPA-1110	Rules to handle layouts containing traffic calming
Story	Rules	TMPA-1111	Rules to handle layouts containing railways and tramways level crossings
Story	Rules	TMPA-1113	Rules - Low Speed: Diversions & Routing
Story	Rules	TMPA-1114	Rules - High Speed: Diversions & Routing
Story	Rules	TMPA-120	Bus Routes Data
Story	Rules	TMPA-1761	Cycle Routes
Story	Rules	TMPA-1763	Hazard identification for diversions and routing
Story	Rules	TMPA-1764	Lane rental schemes
Story	Rules	TMPA-1766	Hazard identification - curbs and ironworks
Story	Rules	TMPA-1840	TfL Purple book
Story	Rules	TMPA-1939	Extend layouts to include single carriageway roads over 40 mph
Story	Rules	TMPA-207	Task 29 - Issue - Temporary Obstruction
Story	Rules	TMPA-218	Task 40 - Issue - Are the works:- Emergency where defect has occurred Has high imminent potential. - Urgently planned ready for
Story	Rules	TMPA-219	Task 41 - Issue - How long will the works take?<15 minutes; >1 working period; <1 working period
Story	Rules	TMPA-220	Task 42 - Issue - Is there more than one location within the link?
Story	Rules	TMPA-221	Task 43 - Issue - How long will the works take?<15 minutes; >1 working period; <1 working period
Story	Rules	TMPA-222	Task 44 - Issue - How long will the works take?<15 minutes; >1 working period; <1 working period
Story	Rules	TMPA-223	Task 45 - Issue - Short term closure with IPV or HETO support.
Story	Rules	TMPA-224	Task 46 - Issue - (< 1 working period)ETM / Relaxation lane closure
Story	Rules	TMPA-225	Task 48 - Issue - Does the road have a hard shoulder?
Story	Rules	TMPA-226	Task 49 - Issue - Is it a full hard shoulder?
Story	Rules	TMPA-227	Task 50 - Issue - Can at least 1 lane of 3.65m plus a lateral safety zone of 1.2m be

Story	Rules	TMPA-228	Task 51 - Issue - Can a lane of 3.3m plus lateral safety zone be provided by placing traffic on
Story	Rules	TMPA-229	Task 52 - Issue - Relaxation lane closure with cones with emergency TTRO to use H/S
Story	Rules	TMPA-230	Task 53 - Issue - Relaxation lane closure with cones normally
Story	Rules	TMPA-231	Task 54 - Issue - Can at least 1 lane 3.65m plus a lateral safety zone of 1.2m be provided.
Story	Rules	TMPA-232	Task 55 - Issue - Can at least 1 lane 3.65m plus a lateral safety zone of 1.2m be provided.
Story	Rules	TMPA-233	Task 56 - Issue - Standard relaxation lane closure with cones placed ‚Äòonline‚Äô
Story	Rules	TMPA-234	Task 57 - Issue - Is the road subject to a mandatory speed limit of 20 30 40
Story	Rules	TMPA-235	Task 58 - Issue - Is the road a motorway
Story	Rules	TMPA-236	Task 59 - Issue - Can 1 lane of 3.3m be provided with no safety zone
Story	Rules	TMPA-237	Task 60 - Issue - Convoy working with 10mph speed limit required using and Emergency TTRO
Story	Rules	TMPA-238	Task 61 - Issue - Road closure required using an Emergency TTRO
Story	Rules	TMPA-239	Task 62 - Issue - Can 1 lane of 3.3m be provided with a safety zone between 1.2m > 0.5m
Story	Rules	TMPA-240	Task 63 - Issue - Lane closure with 3.3m past works and greatest lateral safety zone provided
Story	Rules	TMPA-241	Task 64 - Issue - Can 1 lane of 3.3m be provided with no safety zone
Story	Rules	TMPA-242	Task 65 - Issue - Can the work be undertaken in <2-3 minute bursts and maintain a 3.3m when not
Story	Rules	TMPA-243	Task 66 - Issue - Lane closure with 3.3m past works with traffic signals and all red periods
Story	Rules	TMPA-244	Task 67 - Issue - Short term closure with IPV implemented with RRB or SfR
Story	Rules	TMPA-245	Task 68 - Issue - Is there a full hardshoulder
Story	Rules	TMPA-246	Task 69 - Issue - Mobile Lane Closure
Story	Rules	TMPA-247	Task 70 - Issue - Will all normally open lanes be able to be opened to traffic through all peak
Story	Rules	TMPA-248	Task 71 - Issue - Does the carriageway traffic assessment indicate a reduction in lanes would maintain flow at peak
Story	Rules	TMPA-249	Task 72 - Issue - Can the works be undertaken by removing a lane and maintaining normal remaining lane widths
Story	Rules	TMPA-250	Task 73 - Issue - Standard cross-sectionStandard lane width system work not restricted to off peak periods
Story	Rules	TMPA-251	Task 74 - Issue - Can the same number of lanes be maintained if they were narrow to desirable minimum
Story	Rules	TMPA-252	Task 75 - Issue - Can the same number of lanes be maintained if they were narrow to desirable minimum
Story	Rules	TMPA-253	Task 76 - Issue - Standard cross-sectionStandard narrow lane width system work not restricted to off peak periods
Story	Rules	TMPA-254	Task 77 - Issue - Can the lanes be left on the existing carriageway
Story	Rules	TMPA-255	Task 78 - Issue - Split cross-section Standard narrow lane system with lane closures off peak to facilitate work
Story	Rules	TMPA-256	Task 79 - Issue - Split cross-section Standard narrow lane system with lane closures off peak to facilitate work
Story	Rules	TMPA-259	Task 83 - Issue - Does the road have a hard shoulder?
Story	Rules	TMPA-260	Task 84 - Issue - Is it a full hard shoulder
Story	Rules	TMPA-261	Task 85 - Issue - Can at least 1 lane of 3.65m plus a lateral safety zone of 1.2m be
Story	Rules	TMPA-262	Task 86 - Issue - Can a lane of 3.3m plus lateral safety zone be provided by placing traffic on

Story	Rules	TMPA-263	Task 87 - Issue - Can at least 1 lane of 3.65m plus a lateral safety zone of 1.2m be
Story	Rules	TMPA-264	Task 88 - Issue - Relaxation lane closure with cones normally
Story	Rules	TMPA-265	Task 89 - Issue - Relaxation lane closure with cones normally
Story	Rules	TMPA-266	Task 90 - Issue - Can at least 1 lane of 3.3m plus a lateral safety zone of 1.2m be
Story	Rules	TMPA-267	Task 91 - Issue - Standard relaxation lane closure with cones placed online
Story	Rules	TMPA-268	Task 92 - Issue - Is the road subject to a mandatory speed limit of 20 30 40
Story	Rules	TMPA-269	Task 93 - Issue - Is the road a motorway
Story	Rules	TMPA-270	Task 94 - Issue - Can 1 lane of 3.3.m be provided with no safety zone
Story	Rules	TMPA-271	Task 95 - Issue - Convoy working with 10mph Speed limit required using a TTRO
Story	Rules	TMPA-272	Task 96 - Issue - Road closure required using a TTRO
Story	Rules	TMPA-273	Task 97 - Issue - Can 1 lane of 3.3m be provided with a safety zone between 1.2m >0.5m
Story	Rules	TMPA-274	Task 98 - Issue - Lane closure with 3.3m past works and greatest lateral safety zone provided
Story	Rules	TMPA-275	Task 99 - Issue - Can 1 lane of 3.3m be provided with no safety zone
Story	Rules	TMPA-276	Task 100 - Issue - Can the work be undertaken in <2-3 minute bursts and maintain a 3.3m when not
Story	Rules	TMPA-277	Task 101 - Issue - Lane closure with 3.3m past works with traffic signals and all red periods
Story	Rules	TMPA-452	Task 50 - Test working space - Can at least 1 lane of 3.65m plus a lateral safety zone of 1.2m be provided without hard shoulder use?
Story	Rules	TMPA-454	Task 50 - Subtask - Create 1Integrate action to check if the width of one lane is still possible at
Story	Rules	TMPA-457	Task 51 - Test working space - Can a lane of 3.3m plus lateral safety zone be provided by placing traffic on the hard shoulder?
Story	Rules	TMPA-465	Task 54 - Test working space - Can at least 1 lane 3.65m plus a lateral safety zone of 1.2m be provided.
Story	Rules	TMPA-469	Task 55 - Test working space - Can at least 1 lane 3.65m plus a lateral safety zone of 1.2m be provided.
Story	Rules	TMPA-479	Task 59 - Create working space - Can 1 lane of 3.3m be provided with no safety zone
Story	Rules	TMPA-486	Task 62 - Create working space - Can 1 lane of 3.3m be provided with a safety zone between 1.2m > 0.5m
Story	Rules	TMPA-492	Task 64 - Create working space - Can 1 lane of 3.3m be provided with no safety zone
Story	Rules	TMPA-496	Task 65 - Create working space - Can the work be undertaken in <2-3 minute bursts and maintain a 3.3m when not working
Story	Rules	TMPA-511	Task 70 - Create working space - Will all normally open lanes be able to be opened to traffic through all peak periods to full width
Story	Rules	TMPA-549	Task 85 - Create working space - Can at least 1 lane of 3.65m plus a lateral safety zone of 1.2m be provided without the hardshoulder use
Story	Rules	TMPA-553	Task 86 - Create working space - Can a lane of 3.3m plus lateral safety zone be provided by placing traffic on the hardshoulder
Story	Rules	TMPA-557	Task 87 - Create working space - Can at least 1 lane of 3.65m plus a lateral safety zone of 1.2m be provided
Story	Rules	TMPA-565	Task 90 - Create working space - Can at least 1 lane of 3.3m plus a lateral safety zone of 1.2m be provided
Story	Rules	TMPA-575	Task 94 - Create working space - Can 1 lane of 3.3.m be provided with no safety zone
Story	Rules	TMPA-583	Task 97 - Create working space - Can 1 lane of 3.3m be provided with a safety zone between 1.2m >0.5m

Story	Rules	TMPA-589	Task 99 - Create working space - Can 1 lane of 3.3m be provided with no safety zone
Story	Rules	TMPA-593	Task 100 - Create working space - Can the work be undertaken in <2-3 minute bursts and maintain a 3.3m when not working
Story	Rules	TMPA-702	Create Lead-in Taper - Dual Carriageway
Story	Rules	TMPA-714	Populate Dual Carriageway 'Sub-Scenario' attribute
Story	Rules	TMPA-731	Dual Carriageway - Amend ROAD_CENTRE_LINE
Story	Rules	TMPA-733	Dual Carriageway - Create Road Works Ahead Sign
Story	Rules	TMPA-735	Dual Carriageway - Create End of Road Works Sign
Story	Rules	TMPA-740	Dual Carriageway - Lane closure - 100 Yards & 200 Yards
Story	Rules	TMPA-741	Lane Closure - Left or Right

2.9 Third Party data usage in TMPA

The following data products are used in TMPA:

Supplier	Product(s)	Licence
Ordnance Survey	1. OS Data Hub APIs • OS OpenData • OS Names API • OS Maps API • OS Features API • OS Linked Identifiers API • OS Vector Tile API 2. Speed Limits	OS licence 100041549
GeoPlace LLP	1. National Street Gazetteer 2. SWA Code List	TBC

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3 Documentation and Administration

At this release, no documentation for users and administrators has been produced.

4 1Spatial Product Assistance

If assistance is required relating to this release, contact either the TMPA Product Manager or 1Spatial Support.

To contact 1Spatial Support, please visit our website: http://www.1spatial.com/services/support

Maximise the value of this release with 1Spatial training courses. For training enquiries please contact your Account Manager or email training@1spatial.com