AssetW**O**RKS

SmartApps Administrator Guide

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Technical Support

AssetWorks provides several ways to connect with the Customer Support team. Be prepared to provide detailed information to the representative. If you are reporting an issue by e-mail, include screen shots of your problem. This will provide the Customer Support representative with the information needed to respond quickly and effectively.

Customer Support is available Monday through Friday, 7:00 a.m. to 7:00 p.m., Eastern Time.

Telephone: 1-610-225-8300

E-mail: M5Support@AssetWorks.com

Website: https://community.assetworks.com/hc/en-us

The support website can be used to open issues, subscribe to user groups and download documentation, as well as to access the latest AssetWorks news. For secure access to the website, contact Customer Support by calling the number above.

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Supported Devices

General Support

SmartApps are device agnostic. At minimum, it is recommended to use any Android device running v6 and above or iOS device running v12 and above. Supported browsers include Chrome, Safari, and Edge. The recommended minimum screen size is 5 inches. If there are specific devices being researched, please contact support to confirm compatibility. Most of our testing has been done on iOS (iPads and iPhones) and Android (Samsung Galaxy tablets) using Chrome. It is recommended the sites be installed as https so permissions for camera and GPS can be used.

Web.Config

General Configuration Settings

DBConnectionString

Options: Configurable by the customer

Specifies the database to connect to and the username and password to connect with. The username and password must be a company specific account and not the M5 user.

Oracle:

<add key="DBConnectionString" value="Provider=OraOLEDB.Oracle;Data Source=M5DEV;USER ID=csi;Password=staff;" />

SQL Server:

<add key="DBConnectionString" value="Provider=SQLOLEDB.1;User ID=mfiveapp;pwd=m5dev;Data Source=v301awdb06\M5SS2016DB;initial catalog=m5dv;"/>

SALT

Options: Configurable by the customer

A unique cryptographic-strength password string used during authentication.

```
<add key="SALT"
value="SI1q5mz5q)HY|r=5KwH(r^0phgs=s(*nYWKG.zWF3{!dsI]bECd8_uz}CQ3#" />
```

M5DefaultLoginUser

Options: Configurable by the customer

When logging in by employee and pin, it's possible the employee is not tied to an Application User on Application User Maintenance. When that is the case, this default user and associated role will be used instead.

```
<add key="M5DefaultLoginUser" value="CSI" />
```

M5version15+

Options: "true" or "false"

Generally, now obsolete, by setting this value to "false", this allows customers previous to v15 to specify alternate bsn_components to use (e.g., minimum v15 or above). This should be set to "true".

<add key="m5version15+" value="true" />

M5version15+_component_path

Options: Configurable by the customer

Generally, now obsolete, if the "m5version15+" key is set to a value of "false", this path would be used to determine the bsn_components to use.

<add key="m5version15+_component_path" value="C:\mfive\bsn_components_v17" />

Debug_level

```
Options: "0", "1", "2", or "3"
```

Setting this to a numeric value greater than "0" will generate debugging logs in the M5/Temp folder. Currently, "1", "2" or "3" will generate the same type of logging.

<add key="debug_level" value="3" />

EnableHttpsProxyAuthenticationSimulation

Options: "true" or "false"

This allows https to be used instead of http. In most cases, this value will be set to "true". Customer will be required to have SSL Certificate for https.

```
<add key="EnableHttpsProxyAuthenticationSimulation" value="true" />
```

Reservation Center

AssemblyName

Options: "M5ReservationCenter" or "M5ReservationCenter.Employee"

Specifies the login information to be used. ".Employee" will use employee number and pin.

<add key="AssemblyName" value="M5ReservationCenter.Employee" />

Show_account

Options: "Y" or "N"

When set "Y", this will display the direct account code for billing purposes. If system flag 2017 is set to Y, both the department and account fields will be hidden as they will be set in the M5 component based on default values. If flag 2017 is set to N and show account is set to Y, the account number will be displayed. Otherwise, it will not display.

```
<add key="show_account" value="N" />
```

MapKey

Options: Configurable by the customer

The MapQuest key value to use for displaying the location on a map. The customer would use the default key supplied or use their own key value.

<add key="MapKey" value="Fmjtd%7Cluur2d022h%2C70%3Do5-9araqa" />

DefaultReturnHours

Options: Configurable by the customer

The default return interval when reserving a vehicle. A value of "24" would default the return date and time exactly 1 day from the selected pickup date and time.

```
<add key="DefaultReturnHours" value="24" />
```

MPItems

Options: Configurable by the customer

Ability to add fields for specific item/data entry when creating a reservation. The value is the Motor Pool Item key defined in Item Master Definition – **Motor Pool** followed by the prompt that displays to the user on the Additional Notes screen, separated by a colon. Multiple entries are separated by semicolons.

ltem Master De	finitic	n					
Type: Motor Pool ♥							
Motor Pool Item Information (Loaded	9 records)						
ltem 4WD	Type Character	~	Mandatory Item	Validated Value	Default Value 4WD	Disabled	
CANCELLATION REASON	Character	~		Image: A start and a start	No Longer Required		

<add key="MPItems" value="CANCELLATION REASON: Reason For Cancelling?; 4WD: Need 4WD?"/>

MyVehicle

AssemblyName

Options: "M5MyVehicle" or "M5MyVehicle.Employee"

Specifies the login information to be used. ".Employee" will use employee number and pin.

<add key="AssemblyName" value="M5MyVehicle.Employee"/>

Authorized_main_menu_options

Options: "SR", "WH", "SW", "MR", "PV", "UD", "OP", "PL", and "AT"

The icons to display to the user. "SR" -> Service Request; "WH" -> Work History; "SW" -> Scheduled Work; "MR" -> Meter Readings; "PV" -> Preferred Vendors; "UD" -> Using Department; "OP" -> Operator; "PL" -> Parking Location; "AT" -> Attachments

If the icon should not be displayed, it should be removed from the list.

<add key="authorized_main_menu_options" value="SR;WH;SW;MR;PV;UD;OP;PL;AT"/>

Default_service_request_source

Options: Configurable by the customer

The default Request Source to be used when creating a service request. This value must exist in M5.

```
<add key="default_service_request_source" value="DRIVER"/>
```

MapKey

Options: Configurable by the customer

The MapQuest key value to use for displaying the location of a vendor or parking location on a map. The customer would use the default key supplied or use their own key value.

```
<add key="MapKey" value="Fmjtd%7Cluur2d022h%2C70%3Do5-9araqa"/>
```

Require_symptom

Options: "true" or "false"

When set to true, a symptom code is required when submitting a service request.

```
<add key="require symptom" value="DRIVER"/>
```

Inspections

AssemblyName

Options: "M5DVIR" or "M5DVIR.Employee"

Specifies the login information to be used. ".Employee" will use employee number and pin.

<add key="AssemblyName" value="M5DVIR.Employee" />

Authorized_main_menu_options

Options: "SR", "MR", "IC", and "CH"

The icons to display to the user. "SR" -> Service Request; "MR" -> Meter Readings; "IC" -> Inspection Checklist; "CH" -> Checklist History

<add key="authorized_main_menu_options" value="SR;MR;IC;CH" />

Default_service_request_source

Options: Configurable by the customer

The default Request Source to be used when creating a service request. This value must exist in M5.

<add key="default_service_request_source" value="DRIVER" />

Skip_meter

Options: "true" or "false"

When set to "false", the meter will not be displayed during the inspection checklist.

```
<add key="skip_meter" value="false" />
```

Cache_records

Options: "Y" or "N"

Generally, now obsolete, a value of "Y" will cache the inspection in the event a connection is not available (i.e., the device is offline).

```
<add key="cache records" value="Y" />
```

Hide_checklist_photos

Options: "true" or "false"

When set to "false", the ability to add an attachment when submitting a checklist will be hidden.

```
<add key="hide_checklist_photos" value="false" />
```

Show_icon_for_tap_hold

Options: "true" or "false"

When set to "true", an icon will display that allows the user to upload an attachment (i.e., take a picture) or enter a note. If "false", the user must use the tap hold event to upload an attachment or enter a note.

<add key="show icon for tap hold" value="false"/>

Default_service_request_source

Options: Configurable by the customer

The default Request Source to be used when creating a service request. This value must exist in M5.

<add key="default service request source" value="DRIVER" />

HideBarcode

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Options: "true" or "false"

This value determines whether to allow using the camera to scan a vehicle number.

```
<add key="HideBarcode" value="false" />
```

require_meter_on_service_request

Options: "true" or "false"

This value determines whether meter readings are required when creating a service request. When set to "true," the Meter Readings screen will display and must be completed before a service request can be entered.

<add key="require_meter_on_service_request" value="true" />

Require_symptom

Options: "true" or "false"

When set to true, a symptom code is required when submitting a service request.

```
<add key="require symptom" value="DRIVER"/>
```

Validate_note

Options: "True", "False" or "Mixed"

When set to true, a note is required on a Y/N line item that fails and a note cannot be entered on a line item that passes. When set to mixed, a note is required on a Y/N line item that fails and is optional for a line item that passes. When set to false, a note may be entered (optional) for any Y/N line item regardless of pass or fail.

<add key="validate note" value="True"/>

Dashboards

AssemblyName

Options: "M5Dashboard" or "M5Dashboard.Employee"

Specifies the login information to be used. ".Employee" will use employee number and pin.

<add key="AssemblyName" value="M5Dashboard.Employee" />

ChartColors

Options: Configurable by the customer

Specifies the color, in hexadecimal, of the dashboards that display.

<add key="ChartColors" value="#cc7722;#f8de7e;#f9a602;#ffd300;#d2b55b" />

YardCheck

AssemblyName

Options: "M5YardCheck" or "M5YardCheck.Employee"

Specifies the login information to be used. ".Employee" will use employee number and pin.

<add key="AssemblyName" value="M5YardCheck.Employee" />

Default_service_request_source

Options: Configurable by the customer

The default Request Source to be used when creating a service request. This value must exist in M5.

<add key="default_service_request_source" value="DRIVER"/>

User_options

Options: "Bin", "Condition", "Meter", "ServiceRequest", and "WorkRequest"

The workflow options to display to the user.

<add key="user_options" value="Bin;Condition;ServiceRequest" />

Require_symptom

Options: "true" or "false"

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When set to true, a symptom code is required when submitting a service request.

```
<add key="require_symptom" value="DRIVER"/>
```

Collisions

AssemblyName

Options: "M5Collisions" or "M5Collisions.Employee"

Specifies the login information to be used. ".Employee" will use employee number and pin.

```
<add key="AssemblyName" value="M5Collisions.Employee" />
```

RestrictVehiclesByDepartment

Options: "true" or "false"

When set to "true", only vehicles that have an owning or using department associated with the employee's department will display.

<add key="RestrictVehiclesByDepartment" value="true" />

AccidentItems

Options: Configurable by the customer

Allows the customer to specify accident items to display. The customer must specify the items they would like to display.

<add key="AccidentItems" value="#1 AGE: How old was the vehicle?;HIT AND RUN: Was this a hit-and-run?;DAMAGE TO VEH#1: Was there any damage?;AMBULANCE REQUIRED: Was an ambulance on the scene?;ACCIDENT TYPE: Accident Type"/>

AccidentType

Options: "HIDE", "SHOW", or "REQUIRE"

A value of "SHOW" will display the accident type.

```
<add key="AccidentType" value="HIDE"/>
```

HideSketch

Options: "true" or "false"

A value of "true" will allow the user to sketch the accident.

```
<add key="HideSketch" value="false"/> Is the certificate needed for this?
```

System Flags

The following system flags can be configured for the Inspections SmartApp:

Flag 2010 - Validate User/Operator as a valid Employee ID

Validate User/Operator as a valid employee? This flag requires that an operator of a unit be designated as such in the Employee Main frame of M5. The default for this is "N".

When using employee and pin login, this flag must be set to 'Y'.

Flag 5365 - Show and Enforce Categories in Test Suite Maintenance for SmartApps (Y/N)?

If the flag is set to "Y" the category tab on Test Suite Maintenance will be visible. In addition, available Test Suites will be restricted by category for SmartApps. If the flag is set to "N" the category tab will be hidden, and categories will not be enforced.

Flag 5217 - Control symptom entry on Incident Main, WR Main, and WO Main (Y/N)?

The system flag title will control symptom code entry on Incident Main, Work Request Main, and jobs on Work Order Main using both asset class and source. If Y, then both the asset class and the source will control what symptom codes can be entered or seen using the LOV on the Incident Main, Work Request Main, and jobs on Work Order Main screens. If N, then the user can enter any symptom regardless of asset class or source.

Test Suites

The Test Suite Maintenance frame is used to configure the Inspections SmartApp.

The **SmartApps Checklist** dropdown must be set to **Yes** so that the Test Suite is available in the Inspections app.

The Enforce Signature dropdown should be set to **Yes** if a signature is required when completing the inspection (e.g., Pre and Post Inspection).

If the inspection should be available on the **Vehicle Safety Query frame in M5**, this dropdown must be set to **Yes**.

The Entry Datatype on the line item determines the input from the user. For example, Y/N would be a Yes or No (e.g., Pass/Fail). Numeric entry data types would require a value to be entered between a defined range of high and low values

Т	est S	Suit	e Maintenance				
	Test Suite	Informat	tion				
	Test Suite	e Name:					
	PRE DUTY	INSPEC	TION	PRE DUTY VEHICLE INSPECT	ION		
	Next to P	erform:					
	POST DUT	TY INSPE	CTION				
	Linked Te	est Suite	ID:				
	-	est item f	ails, Corrective Job data is as follows, unless o	verridden.			
	Code:						
	Reason	1:					
	Priority	:					
	Allowuse	ar to ove	rride JobCode: SmartApps Checklist: E	nforce Signature: Available on Direct Test Suite Entry Show on Vehicl	e Safety	Query	
	No V			Yes ✓ Yes ✓ No ✓	councily	Query.	
		(
	Test	Subse	ections User Instructions Categories				
	PRE DUI	I Y INSPE	CTION Tests (Loaded 21 records)				
	Entry	Change			Group		Entry
	Seq 1	Order	Entry Label COMPLETE LOGBOOK	Entry Description IS THE LOGBOOK UP TO DATE?	Header	Subsection INSIDE	Datatype
	2		CHECK SEAT BELTS	DO THE SEAT BELTS OPERATE CORRECTLY?		INSIDE	 Y/N
	3		CHECK BRAKE PEDAL OPERATION			INSIDE	Y/N
	4		CHECK FUEL LEVEL	DOES THE BRAKE PEDAL MOVE/OPERATE CORRECTLY?		INSIDE	
	4 5		CHECK HANDBRAKE OPERATION				Y/N
	5	-	CHECK HANDDRAKE OFERATION	DOES THE HANDBRAKE OPERATE CORRECTLY?		INSIDE	T/IN

Corrective Jobs

Entering a corrective job code will create a work request if there is a failure on the test suite. Corrective job codes can be entered on the line item or at the header level.

Header level - If using a corrective job at the header level on a test Suite, any task line failures will generate one Work Request for the whole test Suite. Note: Each task failure details will be added to the Work Request notes.

At the **Task (line) level** – If using a corrective job at the task (line) level on a test Suite, each task (line) failure will generate a single Work Request. Note: Therefore, the user will see multiple Work Request generated for each Test Suite failure. Details will be added to the Work individual Work Request notes.

Test Suite Maintenance						
Test Suite Information						
Test Suite Name: PRE-DUTY INSPECTIONS	PRE-DUTY INSPECTION				Enabled:	
Next to Perform:	PRE-DUTY INSPECTION				Yes V	
Linked Test Suite ID;						
- If any test item fails, Corrective Job data is as follows, unless o	verridden. –					
Code: DG-COM-Z02 DIAGNOSE Complete Vehicle Misc.						
Reason: R CUSTOMER REQUESTED						
Priority:						
	nforce Signature: Available on Direct Test Suite Entry: Show on Vehic Yes Yes Yes Yes Yes Yes Yes Yes	le Safety Query:				
Test Subsections User Instructions Categories						
PRE-DUTY INSPECTIONS Tests (Record 2 of 7)		-				
	Entry Description	Group Header Subsection	Entry Datatype	Minimum Maximum Value Value	In-Range Allow Only NA	Value Override Corrective Req Job Job Code
	ARE LIGHTS INTACT AND OPERATIONAL? ARE MIRRORS INTACT?		Y/N V Y/N V			✓ □ DG-BEX-D03
	CHECK OSF TYRE TREAD DEPTH IS ABOVE 3MM ACROSS 3/4 OF TYRE CIR		Y/N Y			

Subsections

Note: Prior to selecting a subsection, they must first be created in the Subsection Code frame.

The jobs listed in the test suite can be grouped together by subsections. This allows for checks in the same (component) area of the vehicle to be presented to the user grouped together i.e. Engine, Brakes, Suspension, Body Exterior etc. etc. (see screen shot below)

Once the user has added a code and a description, they can add a sequence order. This determines what order the sections appear on the checklist.

The order can be changed by dragging and dropping the blue dot up or down in the in "Change Order" column, as shown below:

Test	Subsections	User Instructions	Categories		
PRE-DUT	Y INSPECTIONS	Subsection Information	n (Loaded 2 reco	ords)	
Change Order •	Subsection Code	Subsection Dese OUTSIDE OF VEH	•		Sequence Order III
•	INSIDE	INSIDE OF VEHIC	LE		2
1					

Subsection Codes (Lo	aded 16 records)	
Code	Description	
BTP	BRAKE TEST PERFORMANCE RESULTS	
DASHBOARD	DASHBOARD	
ENGINE	ENGINE COMPARTMENT	
EXAMINE	EXAMINE	
GL	GROUND LEVEL	
IBE	INSPECT BODY / EQUIPMENT ITEMS	
ICE	INSPECT CHASSIS / EQUIP ITEMS	
ICI	INSPECT COMPLIANCE ITEMS	
IFT	INSPECT FINAL TASKS	
IGI	INSPECT GENERAL ITEMS	\sim

Categories

Test suites that can be viewed from the smart app can also be restricted by category. The category relates to the Asset Category on the vehicle in Unit Main.

Unit Main	Jnit Main					
Unit Information						
Unit: AH00002		001450		5010		
		2014 FO	RWARD N75.150 L (7.5 1	ION)		
Description: AH TEST UNIT 2 ISUZU URBAN	N75 FARID					
Alternate Unit No.:						
Asset/Codes Dept/L	ocations	Class	Meter/Accounting	Notes		
Year Manufacturer 2014 ISUZU			Make FORWARD			
Unit Codes Serial Number/Chassis N	Unit Codes Serial Number/Chassis Number:					
MCC:						
HGV01	HGV01					
Activity: FW	Food Wa	iste				
Tech Spec Number:						
151352	ISUZU F	ORWARD	N75.150 L (7.5 TON)			
Asset Category: VG1901	REFUSE	COLLECT	OR UP TO 7500 KG			
Asset Class: VG19	Refuse C	Collector 2	axles			

All categories that should be permitted for the Test Suite need to be in the "Assigned categories" box. To restrict test suites by categories, system flag 5365 must first be set to "Y". Then on the Categories tab, they will need to be moved to the "Restricted Categories" box. This can be done by highlighting the category and using the arrow buttons. Alternatively, it may be easier to remove all categories and add back the ones required.

To remove all, click on the button highlighted below, then use the arrows to move all categories.

+	Test Subsections User Instructions	s Categories
P	RE-DUTY INSPECTIONS Category Informatic	ท
	Assigned Categories Depress to select all items in the list. E E012 - VEHICLE RAMP/LIFT 5 TO 10 TO E013 - VEHICLE RAMP/LIFT 11 TO 15 TC E014 - VEHICLE RAMP/LIFT 16 TO 20 TC E019 - CRANE (OVERHEAD) E021 - TROLLEY JACK < 5 TONNE E022 - TROLLEY JACK < 5 TO 10 TONNE E023 - TROLLEY JACK > 11 TONNE E024 - JACKING BEAM E025 - HAND TRANSMISSION PUMP E026 - LIFT ENGINE/TRANSMISSION	Restricted Categories

Test Suite Groups

After the test suite has been created, it must be added to a test suite group in the Test Suite Group frame.

To create a test suite group, enter a group name in the Name field.

Test Suite Group		
Test Suite Group		
Name: HGV Inspections	×	
Assigned Test Suites		
Test Suites not included	_	Test Suites in group
	>>	
	<<	

Tab out of the field and the following message will be presented:



Click Create.

A list of all test suites will be shown in the Assigned Test Suite box.

Add any test suites required for the group to the "Test Suites in Group" box using the arrows.

Test suites can also be removed from the group using the arrows.

Test Suite Group	
– Test Suite Group	
Name: HGV INSPECTIONS	
Assigned Test Suites	
Test Suites not included	Test Suites in group
MOT - MOT POST DUTY INSPECTION - POST DUTY VEH PRE DUTY INSPECTION - PRE DUTY VEHICL PRE-DUTY INSPECTIONS - PRE-DUTY INSPECTIONS - PRE-DU	
	× <

MobileFocus Maintenance

For Test Suites to be available in the Inspections app, they must be added to the appropriate role on the MobileFocus Maintenance frame.

Type or search for the role in the Role field and press Enter.

In the Test Suites tab, all test suites will display in the "Unauthorized Test Suite Groups" box.

Move all relevant test suite groups to the "Authorized Test Suite Groups" box using the arrows. Test suite groups can also be removed using the arrows.

SmartApp Test Suite Groups Unauthorized Test Suite Groups CN-TEST-SUITE-GROUP UNAUTHORIZED UNAUT	MobileFocus Maintenance Role: Description: CSI CSI SmartApp Functions Test Suites Edge Functions Edge Functions	
	CN-TEST-SUITE-GROUP CN-TEST-SUITE-GROUP2 JAKE NEW TSUITEGROUP TEST TS TEST	

GeoCoordinateFinder Program

Overview

If a customer would like to geocode their locations for use of showing on a map and the proximity to the user in the Reservation Center and MyVehicle SmartApps, we provide a geocoding program with a default mapquest key that allows a limited amount of requests per month. The customer can use their own key, which is preferred due to the limited number of requests that are allowed. The program also supports geocoding through google and the customer would be required to supply their own key.

Configuration

Included with the program is a config-vendor.txt file and a config-loc_gen.txt file.

Screenshot of all files included:

Name	Туре
config-ini.txt	Text Document
config-loc_gen.txt	Text Document
config-vendor.txt	Text Document
 Coordinates.cs 	C# Source File
deocoder.cs	C# Source File
GeoCoordinateFinder.cs	C# Source File
GeoCoordinateFinder.exe	Application
doogleGeocoder.cs	C# Source File
MapQuestGeocoder.cs	C# Source File
Newtonsoft.Json.dll	Application extension
README.txt	Text Document

The required parameter that needs to be changed in the file is the dbconnectionstring. Here is a sample of the config-vendor.txt:

dbconnectionstring=Provider=OraOLEDB.Oracle;Data Source=M5DEV;USER ID=csi;Password=staff; table=VENDOR primaryfield=VENDOR_ID latitudefield=LATITUDE longitudefield=LONGITUDE addressfield=ADDRESS1 cityfield=CITY

```
statefield=STATE
zipfield=ZIP_CODE
startrow=
endrow=
mapquestkey=Fmjtd%7Cluur2d022h%2C70%3Do5-9araqa
googlekey=
apiprovider=mapquest
```

The value in bold should be substituted with the value from the service/web.config file (refer to any of the installed apps for this value). A sample of the dbconnectionstring for SQL Server:

dbconnectionstring=Provider=SQLOLEDB.1;User ID=mfiveapp;pwd=m5dev;Data
Source=v301awdb06\M5SS2016DB;initial catalog=m5dv;

The optional parameters that can be changed include the mapquestkey, googlekey and apiprovider. The apiprovider must either be mapquest or google. If mapquest, the mapquestkey must be specified (as shown above). If google, the googlekey must be specified.

The startrow and enrow parameters can also be changed. This would be useful when geocoding additional vendors or locations such that all records are not processed or in the event only a subset of records want to be processed.

After the config-vendor.txt or config-loc_gen.txt is updated, the file needs to be renamed to config.txt prior to running the program. Thus, only geocoding vendors or locations can be done in a single run. The process would then be repeated for the other (i.e., rename to config.txt). The files should be renamed back to their original filename so they are preserved for reference and not overwritten.

Running the Program

To run the program, open a command prompt in the directory of the GeoCoordinateFinder and type GeoCoordinateFinder.exe to run the program.

Example:

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.17134.1365]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\kyle.hillegass\Docs\SmartAppsDocs\Releases\GeoCoordinateFinder>GeoCoordinateFinder.exe
```

Updates

Release	Section	Description
24.0	Web.Config – Reservation Center	Added MPItems section
24.0	Various	Revised images with borders