APPENDIX H: SUB-SYSTEM DESCRIPTION DOCUMENT

MOBILE APPLICATION FOR GEOLOCATION OF IMAGERY AND COLLABORATION MAGIC



Prepared for: OR680/SYST798 Capstone Project course at George Mason University

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F.0 Provide Geolocation Services

Interfacing Items	Source / Destination
Agency Request to Set Up CC	Triggers Function(s): F.0 Provide Geolocation Services F.3 Enable Set Up of a Command Center
App Store	Input To: F.0 Provide Geolocation Services F.1 Provide Access to MAGIC Services F.1.1 Enable Application Download
Application Closed	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.8 Close Application
Basic Capabilities Enabled	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.6 Access & Edit Account Settings F.2.6.5 Provide/Clear Google ID
CC Established	Output From: F.0 Provide Geolocation Services F.3 Enable Set Up of a Command Center
Comment added to Image/POI	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.3 Select to Browse Map F.2.3.10 Comment on POI and/or Image
Downloaded Image &/or POI Saved on Local Memory	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.3 Select to Browse Map F.2.3.11 Download Image and/or POI to Local Memory
Enlarged Selected Picture	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.2 Select to Browse Files F.2.2.12 Click Thumbnail to Enlarge Picture
Full Capabilities Enabled	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.6 Access & Edit Account Settings F.2.6.5 Provide/Clear Google ID

Table 1F.0 Provide Geolocation Services Interfacing Items

Interfacing Items	Source / Destination
	 F.0 Provide Geolocation Services F.1 Provide Access to MAGIC Services F.1.2 Enable Access to Basic MAGIC Capabilities F.1.5 Enable Access to All MAGIC Capabilities F.2 Process Geolocation Services F.2.1 Perform a Registration F.2.1.6 Cancel Registration
Identified POI with Images and Metadata	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.1 Perform a Registration F.2.1.5 Name & Save POI & Images
Image(s) Selected	Input To: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.1 Perform a Registration F.2.1.2 Label Pixel on Image
Image/Data/POI Added to Magic Public Server	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.5 Select to Share Image/Data F.2.5.1 Public Share Image, Data and/or POI
Link Sent to FB/Twitter	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.5 Select to Share Image/Data F.2.5.4 Sharing Link With FB/Twitter
Links Shared with FB and/or Twitter	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.6 Access & Edit Account Settings F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter
MAGIC's Website Interface	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.7 Access Web Interface
MAGIC Homescreen	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.9 Go Back to Home Screen
MAGIC Mobile App	Triggers Function(s): F.0 Provide Geolocation Services F.1 Provide Access to MAGIC Services F.1.2 Enable Access to Basic MAGIC Capabilities

Interfacing Items	Source / Destination
	F.1.3 Enable User to Set Up Account
	F.1.4 Authenticate User
	F.1.5 Enable Access to All MAGIC Capabilities
	F.1.6 Deny Access to User
	F.1.7 Notify Magic System of any Log-In Issues
	Output From:
	F.1.1 Enable Application Download
On/Off Settings	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
POI & Data Selected to Download	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.3 Select to Browse Map
	F.2.3.7 Select a POI to View Associated Images
Previoius Image	Input To:
	F.2.4.3 Select to Add Image for Registration
	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.4 Select to Take a Picture
	F.2.4.2 Choose to Preview Previous Saved Picture
Sharing Notification to User	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.5 Select to Share Image/Data
	F.2.5.3 Push Sharing Notification to Specified User
Successful Maintenance & Service	Output From:
	F.0 Provide Geolocation Services
	F.4 Enable Effective Maintenance and Servicing
Systems Feedback to Perform Sustainment Capabilities	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.4 Enable Effective Maintenance and Servicing
	F.4.1 Enable Instrument Calibration
	F.4.2 Allow Application Updates
	F.4.3 Back Up User's Data
	F.4.4 Enable Problem Reporting and Troubleshooting
User's Google ID or 3rd Party ID	Input To:
	F.0 Provide Geolocation Services
	F.1 Provide Access to MAGIC Services
	F.1.4 Authenticate User
	F.2 Process Geolocation Services
	F.2.6 Access & Edit Account Settings
	F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter

Interfacing Items	Source / Destination
	F.2.6.5 Provide/Clear Google ID
User's Input to Add an Image	Input To: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.1 Perform a Registration F.2.1.1 Select Image from File Browser F.2.1.3 Add Additional Image to Registration
User's Input to Open App	Input To: F.0 Provide Geolocation Services F.1 Provide Access to MAGIC Services F.1.2 Enable Access to Basic MAGIC Capabilities
User's Input to Set Up CC	Input To: F.0 Provide Geolocation Services F.3 Enable Set Up of a Command Center
User's Input to Share Image/Data	Input To: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.5 Select to Share Image/Data F.2.5.1 Public Share Image, Data and/or POI F.2.5.2 Private Share Image, Data and/or POI F.2.5.3 Push Sharing Notification to Specified User F.2.5.4 Sharing Link With FB/Twitter
User's Inputs for Browsing Files Selection	Input To: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.2 Select to Browse Files
User's Inputs to Perform Maintenance & Servicing	Input To: F.0 Provide Geolocation Services F.4 Enable Effective Maintenance and Servicing
User's Personal Information	Input To: F.0 Provide Geolocation Services F.1 Provide Access to MAGIC Services F.1.3 Enable User to Set Up Account
User's Request to Preview Previous Picture	Triggers Function(s):F.0 Provide Geolocation ServicesF.2 Process Geolocation ServicesF.2.4 Select to Take a PictureF.2.4.2 Choose to Preview Previous Saved Picture
User's Request to View Files by Spefic Criteria	Triggers Function(s): F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.2 Select to Browse Files F.2.2.2 Choose to View by Folder F.2.2.3 Choose to View by Location

Interfacing Items	Source / Destination
	F.2.2.4 Choose to View by File Type
	F.2.2.5 Choose to View by Shared Files
User's Request within Viewing Selected Image	 Triggers Function(s): F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.2 Select to Browse Files F.2.2.7 Choose to go Back to File Browser F.2.2.8 Choose to View Previous Image F.2.2.9 Choose to View Next Image F.2.2.10 Choose to Share Image F.2.2.11 Choose to Perform a Registration F.2.2.12 Click Thumbnail to Enlarge Picture
User's Requests	Triggers Function(s): F.0 Provide Geolocation Services F.2 Process Geolocation Services
User Request to Share Image/Data	 Triggers Function(s): F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.5 Select to Share Image/Data F.2.5.1 Public Share Image, Data and/or POI F.2.5.2 Private Share Image, Data and/or POI F.2.5.3 Push Sharing Notification to Specified User F.2.5.4 Sharing Link With FB/Twitter
User Selection to Preview Previous Image	Input To: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.4 Select to Take a Picture F.2.4.2 Choose to Preview Previous Saved Picture
User Selections	Input To: F.0 Provide Geolocation Services F.2 Process Geolocation Services
View of Google Map Interface	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.3 Select to Browse Map F.2.3.1 Browse Map
View of Image Thumbnails	Input To: F.2.2.2 Choose to View by Folder F.2.2.3 Choose to View by Location F.2.2.4 Choose to View by File Type F.2.2.5 Choose to View by Shared Files F.2.2.6 Select an Image from Browser to View Image&Data Output From: F.0 Provide Geolocation Services

Interfacing Items	Source / Destination
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.1 Browse Image Thumbnails
View of Previous/Next Image	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
View of Sharing Interface	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.10 Choose to Share Image

Provide Geolocation Services (FFBD)

For the following FFBD, the sequence of the functions shows the logic of the MAGIC system. First Function F.1 has to be performed for any of the other 3 systems functions to be performed. Function F.1. enables the user to download the application, create an account, if needed, and authenticates the user to provide access to MAGIC. Therefore, if the user does not have the application downloaded on their system the user does not have access to any of the other MAGIC functions.



Figure 3 Provide Geolocation Services (FFBD)

Provide Geolocation Services (IDEF0 A-0 Context Diagram)

The following IDEFO illustrate the inputs, output, mechanisms, and triggers of function F.O.



Figure 4 Provide Geolocation Services (IDEF0 A-0 Context Diagram)

Provide Geolocation Services (IDEF0 Diagram)

The following IDEFO illustrate the sequence of inputs, output, mechanisms, and triggers of sub-functions of F.O.



Figure 5 Provide Geolocation Services (IDEF0 Diagram)

F.1 Provide Access to MAGIC Services

F.1.1 Enable Application Download

Allocated To: EI.1.1.4 Handheld Device

Based On:

SR.1.1.1 Enable Application Download

Table 3 F.1.1 Enable Application Download Interfacing Items

Interfacing Items	Source / Destination
App Store	Input To:
	F.0 Provide Geolocation Services
	F.1 Provide Access to MAGIC Services
	F.1.1 Enable Application Download
MAGIC Mobile App	Triggers Function(s):
	F.0 Provide Geolocation Services

Interfacing Items	Source / Destination
	F.1 Provide Access to MAGIC Services
	F.1.2 Enable Access to Basic MAGIC Capabilities
	F.1.3 Enable User to Set Up Account
	F.1.4 Authenticate User
	F.1.5 Enable Access to All MAGIC Capabilities
	F.1.6 Deny Access to User
	F.1.7 Notify Magic System of any Log-In Issues
	Output From:
	F.1.1 Enable Application Download
User Request to Download App	Triggers Function(s):
	F.1 Provide Access to MAGIC Services
	F.1.1 Enable Application Download

F.1.2 Enable Access to Basic MAGIC Capabilities

Description:

The system shall enable user to access the basic MAGIC capabilities

Allocated To:

SYS.1.1 MAGIC Application

Based On:

SR.1.1.2 Provide Access to Basic MAGIC Capabilities

Table 4 F.1.2 Enable Access to Basic MAGIC Capabilities Interfacing Items

Interfacing Items	Source / Destination
Home Screen	Output From:
	F.0 Provide Geolocation Services
	F.1 Provide Access to MAGIC Services
	F.1.2 Enable Access to Basic MAGIC Capabilities
	F.1.5 Enable Access to All MAGIC Capabilities
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.6 Cancel Registration
MAGIC Mobile App	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.1 Provide Access to MAGIC Services
	F.1.2 Enable Access to Basic MAGIC Capabilities
	F.1.3 Enable User to Set Up Account
	F.1.4 Authenticate User
	F.1.5 Enable Access to All MAGIC Capabilities
	F.1.6 Deny Access to User
	F.1.7 Notify Magic System of any Log-In Issues
	Output From:
	F.1.1 Enable Application Download
User's Input to Open App	Input To:

Interfacing Items	Source / Destination
	F.0 Provide Geolocation Services
	F.1 Provide Access to MAGIC Services
	F.1.2 Enable Access to Basic MAGIC Capabilities

F.1.3 Enable User to Set Up Account

Description:

User can download app from App Store and set up acct through App or user can access Web interface and set up account through there

Allocated To:

SYS.1.1 MAGIC Application

Based On:

SR.1.1.3 Enable User to Set Up Account

Table 5 F.1.3 Enable User to Set Up Account Interfacing Items

Interfacing Items	Source / Destination
Access Denied	Input To:
	F.1.3 Enable User to Set Up Account
	Triggers Function(s):
	F.1.7 Notify Magic System of any Log-In Issues
	Output From:
	F.1.6 Deny Access to User
MAGIC Mobile App	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.1 Provide Access to MAGIC Services
	F.1.2 Enable Access to Basic MAGIC Capabilities
	F.1.3 Enable User to Set Up Account
	F.1.4 Authenticate User
	F.1.5 Enable Access to All MAGIC Capabilities
	F.1.6 Deny Access to User
	F.1.7 Notify Magic System of any Log-In Issues
	Output From:
	F.1.1 Enable Application Download
User's Personal Information	Input To:
	F.0 Provide Geolocation Services
	F.1 Provide Access to MAGIC Services
	F.1.3 Enable User to Set Up Account
User Magic ID	Input To:
	F.1.4 Authenticate User
	Output From:
	F.1.3 Enable User to Set Up Account

F.1.4 Authenticate User

Description:

Request User to input User ID and Password - To distinguish users: Casual User or Emergency Response User

Allocated To: SYS.1.1 MAGIC Application

Based On:

SR.1.1.4 Authenticate User

Table 6 F.1.4 Authenticate User Interfacing Iten
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Interfacing Items	Source / Destination
MAGIC Mobile App	Triggers Function(s):F.0 Provide Geolocation ServicesF.1 Provide Access to MAGIC ServicesF.1.2 Enable Access to Basic MAGIC CapabilitiesF.1.3 Enable User to Set Up AccountF.1.4 Authenticate UserF.1.5 Enable Access to All MAGIC CapabilitiesF.1.6 Deny Access to UserF.1.7 Notify Magic System of any Log-In IssuesOutput From:F.1.1 Enable Application Download
Successful Log In	Input To: F.1.5 Enable Access to All MAGIC Capabilities Output From: F.1.4 Authenticate User
Unsuccesful Log-In	Input To: F.1.6 Deny Access to User F.1.7 Notify Magic System of any Log-In Issues Output From: F.1.4 Authenticate User
User's Google ID or 3rd Party ID	Input To: F.0 Provide Geolocation Services F.1 Provide Access to MAGIC Services F.1.4 Authenticate User F.2 Process Geolocation Services F.2.6 Access & Edit Account Settings F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter F.2.6.5 Provide/Clear Google ID
User Magic ID	Input To: F.1.4 Authenticate User Output From: F.1.3 Enable User to Set Up Account

F.1.5 Enable Access to All MAGIC Capabilities

Description:

User gains access after successful authentication - Correct input of User ID and PW

Allocated To:

SYS.1.1 MAGIC Application

Based On:

SR.1.1.5 Enable Access to All MAGIC Capabilities

Table 7 F.1.5 Enable Access to All MAGIC Capabilities Interfacing Items

Interfacing Items	Source / Destination
Home Screen	Output From:
	F.0 Provide Geolocation Services
	F.1 Provide Access to MAGIC Services
	F.1.2 Enable Access to Basic MAGIC Capabilities
	F.1.5 Enable Access to All MAGIC Capabilities
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.6 Cancel Registration
MAGIC Mobile App	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.1 Provide Access to MAGIC Services
	F.1.2 Enable Access to Basic MAGIC Capabilities
	F.1.3 Enable User to Set Up Account
	F.1.4 Authenticate User
	F.1.5 Enable Access to All MAGIC Capabilities
	F.1.6 Deny Access to User
	F.1.7 Notify Magic System of any Log-In Issues
	Output From:
	F.1.1 Enable Application Download
Successful Log In	Input To:
	F.1.5 Enable Access to All MAGIC Capabilities
	Output From:
	F.1.4 Authenticate User

F.1.6 Deny Access to User

Description:

Access is denied to user when user inputs wrong User ID and/or PW

Allocated To:

SYS.1.1 MAGIC Application

Based On:

SR.1.1.6 Deny Access to User

Interfacing Items	Source / Destination
Access Denied	Input To:
	F.1.3 Enable User to Set Up Account
	Triggers Function(s):
	F.1.7 Notify Magic System of any Log-In Issues
	Output From:
	F.1.6 Deny Access to User
MAGIC Mobile App	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.1 Provide Access to MAGIC Services
	F.1.2 Enable Access to Basic MAGIC Capabilities
	F.1.3 Enable User to Set Up Account
	F.1.4 Authenticate User
	F.1.5 Enable Access to All MAGIC Capabilities
	F.1.6 Deny Access to User
	F.1.7 Notify Magic System of any Log-In Issues
	Output From:
	F.1.1 Enable Application Download
Unsuccesful Log-In	Input To:
	F.1.6 Deny Access to User
	F.1.7 Notify Magic System of any Log-In Issues
	Output From:
	F.1.4 Authenticate User

Table 8 F.1.6 Deny Access to User Interfacing Items

F.1.7 Notify Magic System of any Log-In Issues

Description:

When User encounter any log in issues (from system or users end), the system will be notified of it.

Allocated To:

SYS.1.1 MAGIC Application

Based On:

SR.1.1.7 Notify Magic System of any Log-In Issues

Table 9 F.1.7 Notify Magic System of any Log-In Issues Interfacing Items

Interfacing Items	Source / Destination
Access Denied	Input To: F.1.3 Enable User to Set Up Account Triggers Function(s): F.1.7 Notify Magic System of any Log-In Issues Output From: F.1.6 Deny Access to User
MAGIC Mobile App	Triggers Function(s): F.0 Provide Geolocation Services

Interfacing Items	Source / Destination
	F.1 Provide Access to MAGIC Services
	F.1.2 Enable Access to Basic MAGIC Capabilities
	F.1.3 Enable User to Set Up Account
	F.1.4 Authenticate User
	F.1.5 Enable Access to All MAGIC Capabilities
	F.1.6 Deny Access to User
	F.1.7 Notify Magic System of any Log-In Issues
	Output From:
	F.1.1 Enable Application Download
Report Log-In Issue	Input To:
	F.4 Enable Effective Maintenance and Servicing
	F.4.4 Enable Problem Reporting and Troubleshooting
	Output From:
	F.1 Provide Access to MAGIC Services
	F.1.7 Notify Magic System of any Log-In Issues
Unsuccesful Log-In	Input To:
	F.1.6 Deny Access to User
	F.1.7 Notify Magic System of any Log-In Issues
	Output From:
	F.1.4 Authenticate User

F.2 Process Geolocation Services

F.2.1 Perform a Registration

F.2.1.1 Select Image from File Browser

Description:

This functions prompts user to select an image from the file browser when requesting to perform an image registration

If user is selecting a second + image for geolocation - file browser will show associated iamges according to the first image's location

Allocated To:

SYS.1.1.1.2 File Browser GUI

Based On:

SR.1.2.1.1 Select Image from File Browser

Table 12 F.2.1.1 Select Image from File Browser Interfacing Items

Interfacing Items	Source / Destination
Image 1 Selected	Output From: F.2.1.1 Select Image from File Browser
Image 2 Selected	Output From: F.2.1.1 Select Image from File Browser

Interfacing Items	Source / Destination
User's Input to Add an Image	Input To:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.1 Select Image from File Browser
	F.2.1.3 Add Additional Image to Registration
User Request to Perform a Registration	Triggers Function(s):
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.1 Select Image from File Browser
	F.2.1.2 Label Pixel on Image
	F.2.1.3 Add Additional Image to Registration
	F.2.1.4 Calculate Image Geolocation
	F.2.1.5 Name & Save POI & Images
	F.2.1.6 Cancel Registration
	F.2.2 Select to Browse Files
	F.2.2.6 Select an Image from Browser to View Image&Data
	F.2.4 Select to Take a Picture
	F.2.4.3 Select to Add Image for Registration

F.2.1.2 Label Pixel on Image

Description:

Enables user to select pixel on image they want to use for an image registration

User can view (if picture was chosen from File browser or Map):

- 1. Already selected pixels (blue dot)
- 2. The related error (Yellow Circle) and
- 3. The current selected pixel (Red dot) on picture

Otherwise user can select pixel with red dot on picture for a new POI

Allocated To:

SYS.1.1.1.4 Image Viewer GUI

Based On:

SR.1.2.1.2 Label Pixel on Image

Table 13 F.2.1.2 Label Pixel on Image Interfacing Items

Interfacing Items	Source / Destination
Image(s) Selected	Input To:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.2 Label Pixel on Image
Images with Pixels Selected	Input To:
	F.2.4.4 Name & Save Potential POI

Interfacing Items	Source / Destination
	Output From:
	F.2.1.2 Label Pixel on Image
User Request to Perform a Registration	Triggers Function(s):
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.1 Select Image from File Browser
	F.2.1.2 Label Pixel on Image
	F.2.1.3 Add Additional Image to Registration
	F.2.1.4 Calculate Image Geolocation
	F.2.1.5 Name & Save POI & Images
	F.2.1.6 Cancel Registration
	F.2.2 Select to Browse Files
	F.2.2.6 Select an Image from Browser to View Image&Data
	F.2.4 Select to Take a Picture
	F.2.4.3 Select to Add Image for Registration

F.2.1.3 Add Additional Image to Registration

Description:

User can add an additional image to addition to the required minimum of 2 images but cannot exceed 4 images

Allocated To:

SYS.1.1.1.2 File Browser GUI

Based On:

SR.1.2.1.3 Add Additional Image to Registration

Table 14 F.2.1.3 Add Additional Image to Registration Interfacing Items

Interfacing Items	Source / Destination
Additional Image Selected	Output From:
	F.2.1.3 Add Additional Image to Registration
User's Input to Add an Image	Input To:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.1 Select Image from File Browser
	F.2.1.3 Add Additional Image to Registration
User Request to Perform a Registration	Triggers Function(s):
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.1 Select Image from File Browser
	F.2.1.2 Label Pixel on Image
	F.2.1.3 Add Additional Image to Registration
	F.2.1.4 Calculate Image Geolocation
	F.2.1.5 Name & Save POI & Images

Interfacing Items	Source / Destination
	F.2.1.6 Cancel Registration
	F.2.2 Select to Browse Files
	F.2.2.6 Select an Image from Browser to View
	F.2.4 Select to Take a Picture
	F.2.4.3 Select to Add Image for Registration

F.2.1.4 Calculate Image Geolocation

Description:

Estinamtes objects geolocation and adds images to POI

Allocated To:

SYS.1.1.2 Registration Services

Based On:

SR.1.2.1.4 Calculate Image Geolocation

Table 15 F.2.1.4 Calculate Image Geolocation Interfacing Items

Interfacing Items	Source / Destination
Additional Image with Pixels Selected	Input To:
	F.2.1.4 Calculate Image Geolocation
Image 1 with Pixels Selected	Input To:
	F.2.1.4 Calculate Image Geolocation
Image 2 with Pixels Selected	Input To:
	F.2.1.4 Calculate Image Geolocation
Images with Geolocation Data	Input To:
	F.2.1.5 Name & Save POI & Images
	Output From:
	F.2.1.4 Calculate Image Geolocation
User Request to Perform a Registration	Triggers Function(s):
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.1 Select Image from File Browser
	F.2.1.2 Label Pixel on Image
	F.2.1.3 Add Additional Image to Registration
	F.2.1.4 Calculate Image Geolocation
	F.2.1.5 Name & Save POI & Images
	F.2.1.6 Cancel Registration
	F.2.2 Select to Browse Files
	F.2.2.6 Select an Image from Browser to View
	Image&Data
	F.2.4 Select to Take a Picture
	F.2.4.3 Select to Add Image for Registration

F.2.1.5 Name & Save POI & Images

Description:

User is requested to Name and save POI

Allocated To:

SYS.1.1.1.5.1 Registration Results GUI

Based On:

SR.1.2.1.5 Name & Save POI & Images

Table 16 F.2.1.5 Name & Save POI & Images Interfacing Items

Interfacing Items	Source / Destination
Identified POI with Images and Metadata	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.5 Name & Save POI & Images
Images with Geolocation Data	Input To:
	F.2.1.5 Name & Save POI & Images
	Output From:
	F.2.1.4 Calculate Image Geolocation
User Request to Perform a Registration	Triggers Function(s):
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.1 Select Image from File Browser
	F.2.1.2 Label Pixel on Image
	F.2.1.3 Add Additional Image to Registration
	F.2.1.4 Calculate Image Geolocation
	F.2.1.5 Name & Save POI & Images
	F.2.1.6 Cancel Registration
	F.2.2 Select to Browse Files
	F.2.2.6 Select an Image from Browser to View
	Image&Data
	F.2.4 Select to Take a Picture
	F.2.4.3 Select to Add Image for Registration

F.2.1.6 Cancel Registration

Description:

Enables user to cancel request to perform a registration and takes user back to home screen

Allocated To:

SYS.1.1.1.5 Registration GUI

Based On:

SR.1.2.1.6 Cancel Registration

Interfacing Items	Source / Destination
Home Screen	Output From:
	F.0 Provide Geolocation Services
	F.1 Provide Access to MAGIC Services
	F.1.2 Enable Access to Basic MAGIC Capabilities
	F.1.5 Enable Access to All MAGIC Capabilities
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.6 Cancel Registration
User's Input to Cancel Registration	Input To:
	F.2.1 Perform a Registration
	F.2.1.6 Cancel Registration
User's Input to Go Back to Home Screen	Input To:
	F.2.9 Go Back to Home Screen
	Output From:
	F.2.1 Perform a Registration
	F.2.1.6 Cancel Registration
	F.2.3 Select to Browse Map
	F.2.3.10 Comment on POI and/or Image
User Request to Perform a Registration	Triggers Function(s):
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.1 Select Image from File Browser
	F.2.1.2 Label Pixel on Image
	F.2.1.3 Add Additional Image to Registration
	F.2.1.4 Calculate Image Geolocation
	F.2.1.5 Name & Save POI & Images
	F.2.1.6 Cancel Registration
	F.2.2 Select to Browse Files
	F.2.2.6 Select an Image from Browser to View Image&Data
	F.2.4 Select to Take a Picture
	F.2.4.3 Select to Add Image for Registration

Table 17 F.2.1.6 Cancel Registration Interfacing Items

F.2.2 Select to Browse Files

Description:

User can browse shared images by other users or publicly shared

Allocated To:

SYS.1.1.1.2 File Browser GUI SYS.1.1.1.4 Image Viewer GUI

Based On:

SR.1.2.2 Select to Browse Files

Interfacing Items	Source / Destination
Enlarged Selected Picture	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.2 Select to Browse Files F.2.2.12 Click Thumbnail to Enlarge Picture
User's Inputs for Browsing Files Selection	Input To: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.2 Select to Browse Files
User's Request to Browse Files	Triggers Function(s): F.2.2 Select to Browse Files F.2.2.1 Browse Image Thumbnails
User's Request to View Files by Spefic Criteria	Triggers Function(s): F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.2 Select to Browse Files F.2.2.2 Choose to View by Folder F.2.2.3 Choose to View by Location F.2.2.4 Choose to View by File Type F.2.2.5 Choose to View by Shared Files
User's Request within Viewing Selected Image	 Triggers Function(s): F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.2 Select to Browse Files F.2.2.7 Choose to go Back to File Browser F.2.2.8 Choose to View Previous Image F.2.2.9 Choose to View Next Image F.2.2.10 Choose to Share Image F.2.2.11 Choose to Perform a Registration F.2.2.12 Click Thumbnail to Enlarge Picture
User's Selection to Browse Files	Input To: F.2.2 Select to Browse Files F.2.2.1 Browse Image Thumbnails Output From: F.2.2.7 Choose to go Back to File Browser
User Request to Perform a Registration	Triggers Function(s): F.2 Process Geolocation Services F.2.1 Perform a Registration F.2.1.1 Select Image from File Browser F.2.1.2 Label Pixel on Image F.2.1.3 Add Additional Image to Registration F.2.1.4 Calculate Image Geolocation F.2.1.5 Name & Save POI & Images F.2.1.6 Cancel Registration

Table 18 F.2.2 Select to Browse Files Interfacing Items

Interfacing Items	Source / Destination
	F.2.2 Select to Browse Files
	F.2.2.6 Select an Image from Browser to View Image&Data
	F.2.4 Select to Take a Picture
	F.2.4.3 Select to Add Image for Registration
User Request to View Google Interface Map	Triggers Function(s):
	F.2.2 Select to Browse Files
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated
	E 2 3 9 View Man with Selected Ontion
	F 2 3 10 Comment on POI and/or Image
	F 2 3 11 Download Image and/or POI to Local
	Memory
	Output From:
	F.2.3.1 Browse Map
View of Image Thumbnails	Input To:
	F.2.2.2 Choose to View by Folder
	F.2.2.3 Choose to View by Location
	F.2.2.4 Choose to View by File Type
	F.2.2.5 Choose to View by Shared Files
	F.2.2.6 Select an Image from Browser to View Image&Data
	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.1 Browse Image Thumbnails
View of Previous/Next Image	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
View of Registration Interface	Output From:
	F.2.2 Select to Browse Files
	F.2.2.11 Choose to Perform a Registration

Interfacing Items	Source / Destination
View of Sharing Interface	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.10 Choose to Share Image

Select to Browse Files (FFBD)



Figure 15 Select to Browse Files (FFBD)



Select to Browse Files (IDEF0 A-0 Context Diagram)

Figure 16 Select to Browse Files (IDEF0 A-0 Context Diagram)

Select to Browse Files (IDEF0 Diagram)



Figure 17 Select to Browse Files (IDEF0 Diagram)

F.2.2.1 Browse Image Thumbnails

Allocated To:

SYS.1.1.1.2 File Browser GUI

Based On:

SR.1.2.2.1 Browse Image Thumbnails

Table 19 F.2.2.1 Browse Image Thumbnails Interfacing Items

Interfacing Items	Source / Destination
User's Request to Browse Files	Triggers Function(s): F.2.2 Select to Browse Files F.2.2.1 Browse Image Thumbnails
User's Selection to Browse Files	Input To: F.2.2 Select to Browse Files F.2.2.1 Browse Image Thumbnails Output From: F.2.2.7 Choose to go Back to File Browser

Interfacing Items	Source / Destination
View of Image Thumbnails	Input To:
	F.2.2.2 Choose to View by Folder
	F.2.2.3 Choose to View by Location
	F.2.2.4 Choose to View by File Type
	F.2.2.5 Choose to View by Shared Files
	F.2.2.6 Select an Image from Browser to View
	Image&Data
	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.1 Browse Image Thumbnails

F.2.2.2 Choose to View by Folder

Allocated To: SYS.1.1.1.2 File Browser GUI

Based On:

SR.1.2.2.2 Choose to View by Folder

Table 20 F.2.2.2 Choose to View by Folder Interfacing Items

Interfacing Items	Source / Destination
User's Input to View Images by Folder	Input To:
	F.2.2.2 Choose to View by Folder
User's Request to View Files by Spefic Criteria	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.2 Choose to View by Folder
	F.2.2.3 Choose to View by Location
	F.2.2.4 Choose to View by File Type
	F.2.2.5 Choose to View by Shared Files
View of Image Thumbnails	Input To:
	F.2.2.2 Choose to View by Folder
	F.2.2.3 Choose to View by Location
	F.2.2.4 Choose to View by File Type
	F.2.2.5 Choose to View by Shared Files
	F.2.2.6 Select an Image from Browser to View
	Image&Data
	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.1 Browse Image Thumbnails

Interfacing Items	Source / Destination
View of Images by Specific Criteria	Input To: F.2.2.6 Select an Image from Browser to View Image&Data
	Output From:
	F.2.2.2 Choose to View by Folder
	F.2.2.3 Choose to View by Location
	F.2.2.4 Choose to View by File Type
	F.2.2.5 Choose to View by Shared Files

F.2.2.3 Choose to View by Location

Allocated To:

SYS.1.1.1.2 File Browser GUI

Based On:

SR.1.2.2.3 Choose to View by Location

Table 21 F.2.2.3 Choose to View by Location Interfacing Items

Interfacing Items	Source / Destination
User's Input to View Images by Location	Input To: F.2.2.3 Choose to View by Location
User's Request to View Files by Spefic Criteria	 Triggers Function(s): F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.2 Select to Browse Files F.2.2.2 Choose to View by Folder F.2.2.3 Choose to View by Location F.2.2.4 Choose to View by File Type F.2.2.5 Choose to View by Shared Files
View of Image Thumbnails	Input To:F.2.2.2 Choose to View by FolderF.2.2.3 Choose to View by LocationF.2.2.4 Choose to View by File TypeF.2.2.5 Choose to View by Shared FilesF.2.2.6 Select an Image from Browser to ViewImage&DataOutput From:F.0 Provide Geolocation ServicesF.2.2 Select to Browse FilesF.2.2 Select to Browse FilesF.2.2.1 Browse Image Thumbnails
View of Images by Specific Criteria	Input To: F.2.2.6 Select an Image from Browser to View Image&Data Output From: F.2.2.2 Choose to View by Folder F.2.2.3 Choose to View by Location

Interfacing Items	Source / Destination
	F.2.2.4 Choose to View by File Type F.2.2.5 Choose to View by Shared Files

F.2.2.4 Choose to View by File Type

Allocated To:

SYS.1.1.1.2 File Browser GUI

Based On:

SR.1.2.2.4 Choose to View by File Type

Table 22 F.2.2.4 Choose to View by File Type Interfacing Items

Interfacing Items	Source / Destination
User's Input to View Images by File Type	Input To:
	F.2.2.4 Choose to View by File Type
User's Request to View Files by Spefic Criteria	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.2 Choose to View by Folder
	F.2.2.3 Choose to View by Location
	F.2.2.4 Choose to View by File Type
	F.2.2.5 Choose to View by Shared Files
User Request to View Google Interface Map	Triggers Function(s):
	F.2.2 Select to Browse Files
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated Data
	F.2.3.9 View Map with Selected Option
	F.2.3.10 Comment on POI and/or Image
	F.2.3.11 Download Image and/or POI to Local Memory
	Output From:
	F.2.3.1 Browse Map
View of Image Thumbnails	Input To:
	F.2.2.2 Choose to View by Folder
	F.2.2.3 Choose to View by Location
	F.2.2.4 Choose to View by File Type

Interfacing Items	Source / Destination
	F.2.2.5 Choose to View by Shared Files F.2.2.6 Select an Image from Browser to View Image&Data
	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.1 Browse Image Thumbnails
View of Images by Specific Criteria	Input To: F.2.2.6 Select an Image from Browser to View Image&Data
	Output From:
	F.2.2.2 Choose to View by Folder
	F.2.2.3 Choose to View by Location
	F.2.2.4 Choose to View by File Type
	F.2.2.5 Choose to View by Shared Files

F.2.2.5 Choose to View by Shared Files

Allocated To:

SYS.1.1.1.2 File Browser GUI

Based On:

SR.1.2.2.5 Choose to View by Shared Files

Table 23 F.2.2.5 Choose to View by Shared Files Interfacing Items

Interfacing Items	Source / Destination
User's Input to View Images by Shared Files	Input To: F.2.2.5 Choose to View by Shared Files
User's Request to View Files by Spefic Criteria	Triggers Function(s): F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.2 Select to Browse Files F.2.2.2 Choose to View by Folder F.2.2.3 Choose to View by Location F.2.2.4 Choose to View by File Type F.2.2.5 Choose to View by Shared Files
View of Image Thumbnails	Input To: F.2.2.2 Choose to View by Folder F.2.2.3 Choose to View by Location F.2.2.4 Choose to View by File Type F.2.2.5 Choose to View by Shared Files F.2.2.6 Select an Image from Browser to View Image&Data Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services

Interfacing Items	Source / Destination
	F.2.2 Select to Browse Files
	F.2.2.1 Browse Image Thumbnails
View of Images by Specific Criteria	Input To:
	F.2.2.6 Select an Image from Browser to View Image&Data
	Output From:
	F.2.2.2 Choose to View by Folder
	F.2.2.3 Choose to View by Location
	F.2.2.4 Choose to View by File Type
	F.2.2.5 Choose to View by Shared Files

F.2.2.6 Select an Image from Browser to View Image&Data

Allocated To:

SYS.1.1.1.2 File Browser GUI

Based On:

SR.1.2.2.6 Select an Image from Browser to View Image&Data

Table 24 F.2.2.6 Select an Image from Browser to View Image&Data Interfacing Items

Interfacing Items	Source / Destination
User Request to Perform a Registration	Triggers Function(s):
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.1 Select Image from File Browser
	F.2.1.2 Label Pixel on Image
	F.2.1.3 Add Additional Image to Registration
	F.2.1.4 Calculate Image Geolocation
	F.2.1.5 Name & Save POI & Images
	F.2.1.6 Cancel Registration
	F.2.2 Select to Browse Files
	F.2.2.6 Select an Image from Browser to View Image&Data
	F.2.4 Select to Take a Picture
	F.2.4.3 Select to Add Image for Registration
View of Image Selected	Input To:
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
	F.2.3.10 Comment on POI and/or Image
	Output From:
	F.2.2.6 Select an Image from Browser to View
	Image&Data
	F.2.3.8 Select an Image On Map to View Associated

Interfacing Items	Source / Destination
	Data
View of Image Thumbnails	Input To:
	F.2.2.2 Choose to View by Folder
	F.2.2.3 Choose to View by Location
	F.2.2.4 Choose to View by File Type
	F.2.2.5 Choose to View by Shared Files
	F.2.2.6 Select an Image from Browser to View Image&Data
	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.1 Browse Image Thumbnails
View of Images by Specific Criteria	Input To:
	F.2.2.6 Select an Image from Browser to View Image&Data
	Output From:
	F.2.2.2 Choose to View by Folder
	F.2.2.3 Choose to View by Location
	F.2.2.4 Choose to View by File Type
	F.2.2.5 Choose to View by Shared Files

F.2.2.7 Choose to go Back to File Browser

Allocated To: SYS.1.1.1.2 File Browser GUI

Based On:

SR.1.2.2.7 Choose to go Back to File Browser

Table 25 F.2.2.7 Choose to go Back to File Browser Interfacing Items

Interfacing Items	Source / Destination
User's Request within Viewing Selected Image	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
User's Selection to Browse Files	Input To:
	F.2.2 Select to Browse Files
	F.2.2.1 Browse Image Thumbnails
	Output From:
	F.2.2.7 Choose to go Back to File Browser

Interfacing Items	Source / Destination
View of Image Selected	Input To:
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
	F.2.3.10 Comment on POI and/or Image
	Output From:
	F.2.2.6 Select an Image from Browser to View Image&Data
	F.2.3.8 Select an Image On Map to View Associated
	Data

F.2.2.8 Choose to View Previous Image

Allocated To:

SYS.1.1.1.4 Image Viewer GUI

Based On:

SR.1.2.2.8 Choose to View Previous Image

Table 26 F.2.2.8 Choose to View Previous Image Interfacing Items

Interfacing Items	Source / Destination
User's Request within Viewing Selected Image	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
View of Image Selected	Input To:
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
	F.2.3.10 Comment on POI and/or Image
	Output From:
	F.2.2.6 Select an Image from Browser to View
	Image&Data
	F.2.3.8 Select an Image On Map to View Associated Data

Interfacing Items	Source / Destination
View of Previous/Next Image	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image

F.2.2.9 Choose to View Next Image

Allocated To:

SYS.1.1.1.4 Image Viewer GUI

Based On:

SR.1.2.2.9 Choose to View Next Image

Table 27 F.2.2.9 Choose to View Next Image Interfacing Items

Interfacing Items	Source / Destination
User's Request within Viewing Selected Image	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
View of Image Selected	Input To:
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
	F.2.3.10 Comment on POI and/or Image
	Output From:
	F.2.2.6 Select an Image from Browser to View Image&Data
	F.2.3.8 Select an Image On Map to View Associated
	Data
View of Previous/Next Image	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image

F.2.2.10 Choose to Share Image

Allocated To:

SYS.1.1.1.4 Image Viewer GUI

Based On:

SR.1.2.2.10 Choose to Share Image

Table 28 F.2.2.10 Choose to Share Image Interfacing Items

Interfacing Items	Source / Destination
User's Request within Viewing Selected Image	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
View of Image Selected	Input To:
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
	F.2.3.10 Comment on POI and/or Image
	Output From:
	F.2.2.6 Select an Image from Browser to View Image&Data
	F.2.3.8 Select an Image On Map to View Associated Data
View of Sharing Interface	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.10 Choose to Share Image

F.2.2.11 Choose to Perform a Registration

Allocated To:

SYS.1.1.1.4 Image Viewer GUI

Based On:

SR.1.2.2.11 Choose to Perform a Registration

Interfacing Items	Source / Destination
User's Request within Viewing Selected Image	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
View of Image Selected	Input To:
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
	F.2.3.10 Comment on POI and/or Image
	Output From:
	F.2.2.6 Select an Image from Browser to View Image&Data
	F.2.3.8 Select an Image On Map to View Associated Data
View of Registration Interface	Output From:
	F.2.2 Select to Browse Files
	F.2.2.11 Choose to Perform a Registration

Table 29 F.2.2.11 Choose to Perform a Registration Interfacing Items

F.2.2.12 Click Thumbnail to Enlarge Picture

Allocated To:

SYS.1.1.1.4 Image Viewer GUI

Based On:

SR.1.2.2.12 Click Thumbnail to Enlarge Picture

Table 30 F.2.2.12 Click Thumbnail to Enlarge Picture Interfacing Items

Interfacing Items	Source / Destination
Enlarged Selected Picture	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.2 Select to Browse Files
	F.2.2.12 Click Thumbnail to Enlarge Picture
User's Request within Viewing Selected Image	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
Interfacing Items	Source / Destination
------------------------	---
	F.2.2 Select to Browse Files
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
View of Image Selected	Input To:
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
	F.2.3.10 Comment on POI and/or Image
	Output From:
	F.2.2.6 Select an Image from Browser to View Image&Data
	F.2.3.8 Select an Image On Map to View Associated Data

F.2.3 Select to Browse Map

Allocated To: SYS.1.1.1.3 Map Viewer GUI SYS.1.1.1.4 Image Viewer GUI SYS.1.2.2 Map Server

Based On: SR.1.2.3 Select to Browse Map

Table 31 F.2.3 Select to Browse Map Interfacing Items

Interfacing Items	Source / Destination
Comment added to Image/POI	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.3 Select to Browse Map
	F.2.3.10 Comment on POI and/or Image
Downloaded Image &/or POI Saved on Local Memory	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.3 Select to Browse Map
	F.2.3.11 Download Image and/or POI to Local Memory
POI & Data Selected to Download	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services

Interfacing Items	Source / Destination
	F.2.3 Select to Browse Map
	F.2.3.7 Select a POI to View Associated Images
User's Input to Go Back to Home Screen	Input To:
	F.2.9 Go Back to Home Screen
	Output From:
	F.2.1 Perform a Registration
	F.2.1.6 Cancel Registration
	F.2.3 Select to Browse Map
	F.2.3.10 Comment on POI and/or Image
User Request to View Google Interface Map	Triggers Function(s):
	F.2.2 Select to Browse Files
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated Data
	F.2.3.9 View Map with Selected Option
	F.2.3.10 Comment on POI and/or Image
	F.2.3.11 Download Image and/or POI to Local Memory
	Output From:
	F.2.3.1 Browse Map
User Selections on Map Interface	Input To:
-	F.2.3 Select to Browse Map
View of Google Map Interface	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map

Select to Browse Map (FFBD)



Figure 18 Select to Browse Map (FFBD)



Select to Browse Map (IDEF0 A-0 Context Diagram)

Figure 19 Select to Browse Map (IDEF0 A-0 Context Diagram)

Select to Browse Map (IDEF0 Diagram)



Figure 20 Select to Browse Map (IDEF0 Diagram)

F.2.3.1 Browse Map

Allocated To:

SYS.1.1.1.3 Map Viewer GUI

Based On:

SR.1.2.3.1 Browse Map

Table 32 F.2.3.1 Browse Map Interfacing Items

Interfacing Items	Source / Destination
User Request to View Google Interface Map	Triggers Function(s):
	F.2.2 Select to Browse Files
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated
	Data
	F.2.3.9 View Map with Selected Option
	F.2.3.10 Comment on POI and/or Image
	F.2.3.11 Download Image and/or POI to Local
	Memory
	Output From:
	F.2.3.1 Browse Map
User Selection to Browse Map	Input To:
	F.2.3.1 Browse Map
View of Google Map Interface	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map

F.2.3.2 Select to View POIs on Map

Allocated To: SYS.1.1.1.3 Map Viewer GUI

Based On:

SR.1.2.3.2 Select to View POIs on Map

Table 33 F.2.3.2 Select to View POIs on Map Interfacing Items

Interfacing Items	Source / Destination
User Request to View Google Interface Map	Triggers Function(s): F.2.2 Select to Browse Files

Interfacing Items	Source / Destination
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated
	Data
	F.2.3.9 View Map with Selected Option
	F.2.3.10 Comment on POI and/or Image
	F.2.3.11 Download Image and/or POI to Local
	Memory
	Output From:
	F.2.3.1 Browse Map
User Selection to View POIs on Map	Input To:
	F.2.3.2 Select to View POIs on Map
View of Location of POIs on Map	Input To:
	F.2.3.9 View Map with Selected Option
	Output From:
	F.2.3.2 Select to View POIs on Map

F.2.3.3 Select to View Images on Map

Allocated To: SYS.1.1.1.3 Map Viewer GUI

Based On:

SR.1.2.3.3 Select to View Images on Map

Table 34 F.2.3.3 Select to View Images on Map Interfacing Items

Interfacing Items	Source / Destination
User Request to View Google Interface Map	Triggers Function(s):
	F.2.2 Select to Browse Files
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated
	Data

Interfacing Items	Source / Destination
	F.2.3.9 View Map with Selected Option
	F.2.3.10 Comment on POI and/or Image
	F.2.3.11 Download Image and/or POI to Local Memory
	Output From:
	F.2.3.1 Browse Map
User Selection to view Images on Map	Input To:
	F.2.3.3 Select to View Images on Map
View of Location of Images on Map	Input To:
	F.2.3.9 View Map with Selected Option
	Output From:
	F.2.3.3 Select to View Images on Map

F.2.3.4 Select to Choose Map Layers

Description:

Select map layers (terrain, map, satellite, hybrid, phone image and poi only, shared images, shared poi, search options [full google map search, image & poi search only])

Allocated To: SYS.1.1.1.3 Map Viewer GUI

Based On:

SR.1.2.3.4 Select to Choose Map Layers

Table 35 F.2.3.4 Select to Choose Map Layers Interfacing Items

Interfacing Items	Source / Destination
User's Selection to View a Map Layer	Input To:
	F.2.3.4 Select to Choose Map Layers
User Request to View Google Interface Map	Triggers Function(s):
	F.2.2 Select to Browse Files
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated
	Data
	F.2.3.9 View Map with Selected Option
	F.2.3.10 Comment on POI and/or Image
	F.2.3.11 Download Image and/or POI to Local
	Memory
	Output From:

Interfacing Items	Source / Destination
	F.2.3.1 Browse Map
View of Images on Selected Map Layer	Input To: F.2.3.9 View Map with Selected Option
	Output From:
	F.2.3.4 Select to Choose Map Layers

F.2.3.5 Perform Search for Specific Place

Allocated To:

SYS.1.2.2 Map Server

Based On:

SR.1.2.3.5 Perform Search for Specific Place

Table 36 F.2.3.5 Perform Search for Specific Place Interfacing Items

Interfacing Items	Source / Destination
User Request to View Google Interface Map	Triggers Function(s):
	F.2.2 Select to Browse Files
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated
	Data
	F.2.3.9 View Map with Selected Option
	F.2.3.10 Comment on POI and/or Image
	F.2.3.11 Download Image and/or POI to Local
	Memory
	Output From:
	F.2.3.1 Browse Map
User Selection to Search a Spicific Place	Input To:
	F.2.3.5 Perform Search for Specific Place
View of Images within Search	Input To:
	F.2.3.9 View Map with Selected Option
	Output From:
	F.2.3.5 Perform Search for Specific Place

F.2.3.6 Select to "Center my Location"

Allocated To: SYS.1.2.2 Map Server

Based On:

SR.1.2.3.6 Select to "Center my Location"

Interfacing Items	Source / Destination
User Request to View Google Interface Map	Triggers Function(s):
	F.2.2 Select to Browse Files
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated
	Data
	F.2.3.9 View Map with Selected Option
	F.2.3.10 Comment on POI and/or Image
	F.2.3.11 Download Image and/or POI to Local
	Memory
	Output From:
	F.2.3.1 Browse Map
User Selection to Center Map on Current Location	Input To:
	F.2.3.6 Select to "Center my Location"
View of Images/POI near My Location	Input To:
	F.2.3.9 View Map with Selected Option
	Output From:
	F.2.3.6 Select to "Center my Location"

Table 37 F.2.3.6 Select to "Center my Location" Interfacing Items

F.2.3.7 Select a POI to View Associated Images

Description:

Enables user to select a registerd POI and view all associated shared images

Allocated To: SYS.1.1.1.4 Image Viewer GUI

Based On:

SR.1.2.3.7 Select a POI to View Associated Images

Table 38 F.2.3.7 Select a POI to View Associated Images Interfacing Items

Interfacing Items	Source / Destination
Map View According to User Selected Option on Map Interface	Input To: F.2.3.7 Select a POI to View Associated Images F.2.3.8 Select an Image On Map to View Associated Data
	Output From: F.2.3.9 View Map with Selected Option

Interfacing Items	Source / Destination
POI & Data Selected to Download	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.3 Select to Browse Map
	F.2.3.7 Select a POI to View Associated Images
User Request to View Google Interface Map	Triggers Function(s):
	F.2.2 Select to Browse Files
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated
	Data
	F.2.3.9 View Map with Selected Option
	F.2.3.10 Comment on POI and/or Image
	F.2.3.11 Download Image and/or POI to Local
	Memory
	Output From:
	F.2.3.1 Browse Map

F.2.3.8 Select an Image On Map to View Associated Data

Allocated To:

SYS.1.1.1.4 Image Viewer GUI

Based On:

SR.1.2.3.8 Select an Image On Map to View Associated Data

Table 39 F.2.3.8 Select an Image On Map to View Associated Data Interfacing Items

Interfacing Items	Source / Destination
Image Selected to Download	Input To: F.2.3.11 Download Image and/or POI to Local Memory Output From:
	F.2.3.8 Select an Image On Map to View Associated Data
Map View According to User Selected Option on Map Interface	Input To: F.2.3.7 Select a POI to View Associated Images F.2.3.8 Select an Image On Map to View Associated Data
	Output From: F.2.3.9 View Map with Selected Option

Interfacing Items	Source / Destination
User Request to View Google Interface Map	 Triggers Function(s): F.2.2 Select to Browse Files F.2.2.4 Choose to View by File Type F.2.3 Select to Browse Map F.2.3.1 Browse Map F.2.3.2 Select to View POIs on Map F.2.3.3 Select to View Images on Map F.2.3.4 Select to Choose Map Layers F.2.3.5 Perform Search for Specific Place F.2.3.6 Select to "Center my Location" F.2.3.7 Select a POI to View Associated Images F.2.3.8 Select an Image On Map to View Associated Data F.2.3.9 View Map with Selected Option F.2.3.11 Download Image and/or POI to Local Memory Output From:
View of Image Selected	Input To: F.2.2.7 Choose to go Back to File Browser F.2.2.8 Choose to View Previous Image F.2.2.9 Choose to View Next Image F.2.2.10 Choose to Share Image F.2.2.11 Choose to Perform a Registration F.2.2.12 Click Thumbnail to Enlarge Picture F.2.3.10 Comment on POI and/or Image Output From: F.2.2.6 Select an Image from Browser to View Image&Data F.2.3.8 Select an Image On Map to View Associated Data

F.2.3.9 View Map with Selected Option

Allocated To:

SYS.1.1.1.3 Map Viewer GUI

Based On:

SR.1.2.3.9 View Map with Selected Option

Table 40 F.2.3.9 View Map with Selected Option Interfacing Items

Interfacing Items	Source / Destination
Map View According to User Selected Option on Map Interface	Input To: F.2.3.7 Select a POI to View Associated Images F.2.3.8 Select an Image On Map to View Associated Data

Interfacing Items	Source / Destination
	Output From:
	F.2.3.9 View Map with Selected Option
User Request to View Google Interface Map	Triggers Function(s): F.2.2 Select to Browse Files
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated
	F 2 3 9 View Man with Selected Ontion
	F.2.3.10 Comment on POI and/or Image
	F.2.3.11 Download Image and/or POI to Local
	Memory
	Output From:
	F.2.3.1 Browse Map
View of Images on Selected Map Layer	Input To:
	F.2.3.9 View Map with Selected Option
	Output From:
	F.2.3.4 Select to Choose Map Layers
View of Images within Search	Input To:
	F.2.3.9 View Map with Selected Option
	Output From:
	F.2.3.5 Perform Search for Specific Place
View of Images/POI near My Location	Input To:
	F.2.3.9 View Map with Selected Option
	Output From:
	F.2.3.6 Select to "Center my Location"
View of Location of Images on Map	Input To:
	F.2.3.9 View Map with Selected Option
	Output From:
	F.2.3.3 Select to View Images on Map
View of Location of POIs on Map	Input To:
	F.2.3.9 View Map with Selected Option
	Output From:
	F.2.3.2 Select to View POIs on Map

F.2.3.10 Comment on POI and/or Image

Description:

Enables User to add a comment on POI or Image

Allocated To:

SYS.1.1.1.4 Image Viewer GUI

Based On:

SR.1.2.3.10 Comment on POI and/or Image

Table 41 F.2.3.10 Comment on POI and/or Image Interfacing Items

Interfacing Items	Source / Destination
Comment added to Image/POI	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.3 Select to Browse Map
	F.2.3.10 Comment on POI and/or Image
User's Input to Go Back to Home Screen	Input To:
	F.2.9 Go Back to Home Screen
	Output From:
	F.2.1 Perform a Registration
	F.2.1.6 Cancel Registration
	F.2.3 Select to Browse Map
	F.2.3.10 Comment on POI and/or Image
User Request to View Google Interface Map	Triggers Function(s):
	F.2.2 Select to Browse Files
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated Data
	F.2.3.9 View Map with Selected Option
	F.2.3.10 Comment on POI and/or Image
	F.2.3.11 Download Image and/or POI to Local
	Memory
	Output From:
	F.2.3.1 Browse Map
View of Image Selected	Input To:
	F.2.2.7 Choose to go Back to File Browser
	F.2.2.8 Choose to View Previous Image
	F.2.2.9 Choose to View Next Image

Interfacing Items	Source / Destination
	F.2.2.10 Choose to Share Image
	F.2.2.11 Choose to Perform a Registration
	F.2.2.12 Click Thumbnail to Enlarge Picture
	F.2.3.10 Comment on POI and/or Image
	Output From:
	F.2.2.6 Select an Image from Browser to View
	Image&Data
	F.2.3.8 Select an Image On Map to View Associated
	Data

F.2.3.11 Download Image and/or POI to Local Memory

Allocated To: SYS.1.2.2 Map Server

515.1.2.2 Map

Based On:

SR.1.2.3.11 Download Image and/or POI to Local Memory

Table 42 F.2.3.11 Download Image and/or POI to Local Memory Interfacing Items

Interfacing Items	Source / Destination
Downloaded Image &/or POI Saved on Local Memory	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.3 Select to Browse Map
	F.2.3.11 Download Image and/or POI to Local
	Memory
Image Selected to Download	Input To:
	F.2.3.11 Download Image and/or POI to Local
	Memory
	Output From:
	F.2.3.8 Select an Image On Map to View Associated
	Data
User Request to View Google Interface Map	Triggers Function(s):
	F.2.2 Select to Browse Files
	F.2.2.4 Choose to View by File Type
	F.2.3 Select to Browse Map
	F.2.3.1 Browse Map
	F.2.3.2 Select to View POIs on Map
	F.2.3.3 Select to View Images on Map
	F.2.3.4 Select to Choose Map Layers
	F.2.3.5 Perform Search for Specific Place
	F.2.3.6 Select to "Center my Location"
	F.2.3.7 Select a POI to View Associated Images
	F.2.3.8 Select an Image On Map to View Associated
	Data
	F.2.3.9 View Map with Selected Option
	F.2.3.10 Comment on POI and/or Image

Interfacing Items	Source / Destination
	F.2.3.11 Download Image and/or POI to Local Memory
	Output From:
	F.2.3.1 Browse Map

F.2.4 Select to Take a Picture

Description:

User can tap on Camera Icon and be able to take a picture and save it on MAGIC Server (User's Acct) and share it if desired

Allocated To:

SYS.1.1.1.1 Camera GUI SYS.1.1.1.4 Image Viewer GUI SYS.1.1.1.5 Registration GUI

Based On:

SR.1.2.4 Select to Take a Picture

Table 43 F.2.4 Select to Take a Picture Interfacing Items

Interfacing Items	Source / Destination
Image Sent to Registration	Output From:
	F.2.4 Select to Take a Picture
	F.2.4.3 Select to Add Image for Registration
Previoius Image	Input To:
	F.2.4.3 Select to Add Image for Registration
	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.4 Select to Take a Picture
	F.2.4.2 Choose to Preview Previous Saved Picture
User's Request to Preview Previous Picture	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.4 Select to Take a Picture
	F.2.4.2 Choose to Preview Previous Saved Picture
User Request to Perform a Registration	Triggers Function(s):
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.1 Select Image from File Browser
	F.2.1.2 Label Pixel on Image
	F.2.1.3 Add Additional Image to Registration
	F.2.1.4 Calculate Image Geolocation
	F.2.1.5 Name & Save POI & Images
	F.2.1.6 Cancel Registration
	F.2.2 Select to Browse Files

Interfacing Items	Source / Destination
	F.2.2.6 Select an Image from Browser to View Image&Data
	F.2.4 Select to Take a Picture
	F.2.4.3 Select to Add Image for Registration
User Request to Take a Picture	Triggers Function(s):
	F.2.4 Select to Take a Picture
	F.2.4.1 Take Picture
User Selection to Add Image to Magic Server	Input To:
	F.2.4 Select to Take a Picture
	F.2.4.1 Take Picture
User Selection to Preview Previous Image	Input To:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.4 Select to Take a Picture
	F.2.4.2 Choose to Preview Previous Saved Picture

Select to Take a Picture (FFBD)



Figure 21 Select to Take a Picture (FFBD)



Select to Take a Picture (IDEF0 A-0 Context Diagram)

Figure 22 Select to Take a Picture (IDEF0 A-0 Context Diagram)



Select to Take a Picture (IDEF0 Diagram)

Figure 23 Select to Take a Picture (IDEF0 Diagram)

F.2.4.1 Take Picture

Allocated To: SYS.1.1.1.1 Camera GUI SYS.1.1.1.4 Image Viewer GUI

Based On: SR.1.2.4.1 Take Picture

Table 44 F.2.4.1 Take Picture Interfacing Items

Interfacing Items	Source / Destination
Image Taken	Input To: F.2.4.3 Select to Add Image for Registration Output From: F.2.4.1 Take Picture
User Request to Take a Picture	Triggers Function(s): F.2.4 Select to Take a Picture F.2.4.1 Take Picture
User Selection to Add Image to Magic Server	Input To:

Interfacing Items	Source / Destination
	F.2.4 Select to Take a Picture F.2.4.1 Take Picture

F.2.4.2 Choose to Preview Previous Saved Picture

Allocated To:

SYS.1.1.1.4 Image Viewer GUI

Based On:

SR.1.2.4.2 Choose to Preview Previous Saved Picture

Table 45 F.2.4.2 Choose to Preview Previous Saved Picture Interfacing Items

Interfacing Items	Source / Destination
Previoius Image	Input To:
	F.2.4.3 Select to Add Image for Registration
	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.4 Select to Take a Picture
	F.2.4.2 Choose to Preview Previous Saved Picture
User's Request to Preview Previous Picture	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.4 Select to Take a Picture
	F.2.4.2 Choose to Preview Previous Saved Picture
User Selection to Preview Previous Image	Input To:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.4 Select to Take a Picture
	F.2.4.2 Choose to Preview Previous Saved Picture

F.2.4.3 Select to Add Image for Registration

Allocated To: SYS.1.1.1.5 Registration GUI

Based On:

SR.1.2.4.3 Select to Add Image for Registration

Table 46 F.2.4.3 Select to Add Image for Registration Interfacing Items

Interfacing Items	Source / Destination
Image Sent to Registration	Output From:
	F.2.4 Select to Take a Picture
	F.2.4.3 Select to Add Image for Registration
Image Taken	Input To:
	F.2.4.3 Select to Add Image for Registration
	Output From:

Interfacing Items	Source / Destination
	F.2.4.1 Take Picture
Previoius Image	Input To:
	F.2.4.3 Select to Add Image for Registration
	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.4 Select to Take a Picture
	F.2.4.2 Choose to Preview Previous Saved Picture
User Request to Perform a Registration	Triggers Function(s):
	F.2 Process Geolocation Services
	F.2.1 Perform a Registration
	F.2.1.1 Select Image from File Browser
	F.2.1.2 Label Pixel on Image
	F.2.1.3 Add Additional Image to Registration
	F.2.1.4 Calculate Image Geolocation
	F.2.1.5 Name & Save POI & Images
	F.2.1.6 Cancel Registration
	F.2.2 Select to Browse Files
	F.2.2.6 Select an Image from Browser to View
	Image&Data
	F.2.4 Select to Take a Picture
	F.2.4.3 Select to Add Image for Registration

F.2.5 Select to Share Image/Data

F.2.5.1 Public Share Image, Data and/or POI

Description:

A user can share an image, POI, and/or geolocation data publicacly, privately (to his/her google contacts) or user can share a link through FB or Twitter

Allocated To:

SYS.1.1.1.6 Information Sharing GUI

- SYS.1.1.3 Information Sharing Services
- SYS.1.2.1 Imagery Server

Based On:

SR.1.2.5.1 Public Share Image, Data and/or POI

Table 48 F.2.5.1 Public Share Image, Data and/or POI Interfacing Items

Interfacing Items	Source / Destination
Image/Data/POI Added to Magic Public Server	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.5 Select to Share Image/Data
	F.2.5.1 Public Share Image, Data and/or POI
User's Input to Share Image/Data	Input To:

Interfacing Items	Source / Destination
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.5 Select to Share Image/Data
	F.2.5.1 Public Share Image, Data and/or POI
	F.2.5.2 Private Share Image, Data and/or POI
	F.2.5.3 Push Sharing Notification to Specified User
	F.2.5.4 Sharing Link With FB/Twitter
User Request to Share Image/Data	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.5 Select to Share Image/Data
	F.2.5.1 Public Share Image, Data and/or POI
	F.2.5.2 Private Share Image, Data and/or POI
	F.2.5.3 Push Sharing Notification to Specified User
	F.2.5.4 Sharing Link With FB/Twitter

F.2.5.2 Private Share Image, Data and/or POI

Description:

Enables User to share an image to his/her google accts. This function will also enable user to share Image with a Command Center

Allocated To:

SYS.1.1.1.6 Information Sharing GUI SYS.1.2.1 Imagery Server

Based On:

SR.1.2.5.2 Private Share Image, Data and/or POI

Table 49 F.2.5.2 Private Share Image, Data and/or POI Interfacing Items

Interfacing Items	Source / Destination
Image sent to tagged user	Input To:
	F.2.5.3 Push Sharing Notification to Specified User
	Output From:
	F.2.5.2 Private Share Image, Data and/or POI
User's Input to Share Image/Data	Input To:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.5 Select to Share Image/Data
	F.2.5.1 Public Share Image, Data and/or POI
	F.2.5.2 Private Share Image, Data and/or POI
	F.2.5.3 Push Sharing Notification to Specified User
	F.2.5.4 Sharing Link With FB/Twitter
User Request to Share Image/Data	Triggers Function(s):
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.5 Select to Share Image/Data

Interfacing Items	Source / Destination
	F.2.5.1 Public Share Image, Data and/or POI
	F.2.5.2 Private Share Image, Data and/or POI
	F.2.5.3 Push Sharing Notification to Specified User
	F.2.5.4 Sharing Link With FB/Twitter

F.2.5.3 Push Sharing Notification to Specified User

Description:

This function will send a notification to the specified user the picture was tag to

Allocated To:

SYS.1.1.1.6 Information Sharing GUI

SYS.1.1.3 Information Sharing Services

SYS.1.2.1 Imagery Server

Based On:

SR.1.2.5.3 Push Sharing Notification to Specified User

Table 50 F.2.5.3 Push Sharing Notification to Specified User Interfacing Items

Interfacing Items	Source / Destination
Image sent to tagged user	Input To: F.2.5.3 Push Sharing Notification to Specified User Output From: F.2.5.2 Private Share Image, Data and/or POI
Sharing Notification to User	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.5 Select to Share Image/Data F.2.5.3 Push Sharing Notification to Specified User
User's Input to Share Image/Data	Input To: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.5 Select to Share Image/Data F.2.5.1 Public Share Image, Data and/or POI F.2.5.2 Private Share Image, Data and/or POI F.2.5.3 Push Sharing Notification to Specified User F.2.5.4 Sharing Link With FB/Twitter
User Request to Share Image/Data	 Triggers Function(s): F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.5 Select to Share Image/Data F.2.5.1 Public Share Image, Data and/or POI F.2.5.2 Private Share Image, Data and/or POI F.2.5.3 Push Sharing Notification to Specified User F.2.5.4 Sharing Link With FB/Twitter

F.2.5.4 Sharing Link With FB/Twitter

Allocated To:

SYS.1.1.1.6 Information Sharing GUI

Based On:

SR.1.2.5.4 Sharing Link With FB/Twitter

Table 51 F.2.5.4 Sharing Link With FB/Twitter Interfacing Items

Interfacing Items	Source / Destination
Link Sent to FB/Twitter	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.5 Select to Share Image/Data F.2.5.4 Sharing Link With FB/Twitter
User's Input to Share Image/Data	Input To: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.5 Select to Share Image/Data F.2.5.1 Public Share Image, Data and/or POI F.2.5.2 Private Share Image, Data and/or POI F.2.5.3 Push Sharing Notification to Specified User F.2.5.4 Sharing Link With FB/Twitter
User Request to Share Image/Data	 Triggers Function(s): F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.5 Select to Share Image/Data F.2.5.1 Public Share Image, Data and/or POI F.2.5.2 Private Share Image, Data and/or POI F.2.5.3 Push Sharing Notification to Specified User F.2.5.4 Sharing Link With FB/Twitter

F.2.6 Access & Edit Account Settings

Description:

Enables user to makes changes to his/her acct under the setting tab

Allocated To:

SYS.1.1.3 Information Sharing Services

SYS.1.2 Data Server

SYS.1.2.1.1 3rd Party Server

Based On:

SR.1.2.6 Access & Edit Account Settings

Table 52 F.2.6 Access & Edit Account Settings Interfacing Items

Interfacing Items	Source / Destination
Basic Capabilities Enabled	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services

Interfacing Items	Source / Destination
	F.2.6 Access & Edit Account Settings
	F.2.6.5 Provide/Clear Google ID
Full Capabilities Enabled	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.6 Access & Edit Account Settings
	F.2.6.5 Provide/Clear Google ID
Helpful Hints On/Off	Output From:
	F.2.6 Access & Edit Account Settings
	F.2.6.3 Turn On/Off Helpful Hints
Links Shared with FB and/or Twitter	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.6 Access & Edit Account Settings
	F.2.6.4 Activate/Deactivate Link Sharing with FB
	and/or l witter
Proximity Alert On/Off	Output From:
	F.2.6 Access & Edit Account Settings
	F.2.6.2 Turn On/OII Proximity Alerts
Public Sharing On/Off	Output From:
	F.2.6 Access & Edit Account Settings
User's Google ID or 3rd Party ID	Input Io:
	F.0 Provide Geolocation Services
	F.1 Provide Access to MACIC Services
	F 2 Process Geolocation Services
	F 2 6 Access & Edit Account Settings
	F.2.6.4 Activate/Deactivate Link Sharing with FB
	and/or Twitter
	F.2.6.5 Provide/Clear Google ID
User Input to Change Account Settings	Input To:
	F.2.6 Access & Edit Account Settings
User Request to Change Settings	Triggers Function(s):
	F.2.6 Access & Edit Account Settings
	F.2.6.1 Turn On/Off Public Sharing
	F.2.6.2 Turn On/Off Proximity Alerts
	F.2.6.3 Turn On/Off Helpful Hints
	F.2.6.4 Activate/Deactivate Link Sharing with FB
	and/or 1 witter
User Request to go to WebSite	F 2.7 A correst Web Later Correst
	F.2./ Access web Interface
	r.2.0 Access & East Account Settings

Interfacing Items	Source / Destination
	F.2.6.5 Provide/Clear Google ID

Access & Edit Account Settings (FFBD)



Figure 27 Access & Edit Account Settings (FFBD)



Access & Edit Account Settings (IDEF0 A-0 Context Diagram)

Figure 28 Access & Edit Account Settings (IDEF0 A-0 Context Diagram)



Access & Edit Account Settings (IDEF0 Diagram)

Figure 29 Access & Edit Account Settings (IDEF0 Diagram)

F.2.6.1 Turn On/Off Public Sharing

Allocated To:

SYS.1.1.3 Information Sharing Services

SYS.1.2.3 Sustainment Data Server

Table 53 F.2.6.1 Turn On/Off Public Sharing Interfacing Items

Interfacing Items	Source / Destination
Public Sharing On/Off	Output From:
	F.2.6 Access & Edit Account Settings
	F.2.6.1 Turn On/Off Public Sharing
User Input to Change Public Sharing Settings	Input To:
	F.2.6.1 Turn On/Off Public Sharing
User Request to Change Settings	Triggers Function(s):
	F.2.6 Access & Edit Account Settings
	F.2.6.1 Turn On/Off Public Sharing
	F.2.6.2 Turn On/Off Proximity Alerts
	F.2.6.3 Turn On/Off Helpful Hints
	F.2.6.4 Activate/Deactivate Link Sharing with FB

Interfacing Items	Source / Destination
	and/or Twitter F.2.6.5 Provide/Clear Google ID

F.2.6.2 Turn On/Off Proximity Alerts

Allocated To:

SYS.1.2.3 Sustainment Data Server

Table 54 F.2.6.2 Turn On/Off Proximity Alerts Interfacing Items

Interfacing Items	Source / Destination
Proximity Alert On/Off	Output From:
	F.2.6 Access & Edit Account Settings
	F.2.6.2 Turn On/Off Proximity Alerts
User Input to Change Proximity Alerts Settings	Input To:
	F.2.6.2 Turn On/Off Proximity Alerts
User Request to Change Settings	Triggers Function(s):
	F.2.6 Access & Edit Account Settings
	F.2.6.1 Turn On/Off Public Sharing
	F.2.6.2 Turn On/Off Proximity Alerts
	F.2.6.3 Turn On/Off Helpful Hints
	F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter
	F.2.6.5 Provide/Clear Google ID

F.2.6.3 Turn On/Off Helpful Hints

Allocated To: SYS.1.2.3 Sustainment Data Server

Table 55 F.2.6.3 Turn On/Off Helpful Hints Interfacing Items

Interfacing Items	Source / Destination
Helpful Hints On/Off	Output From:
	F.2.6 Access & Edit Account Settings
	F.2.6.3 Turn On/Off Helpful Hints
User Input to Change Helpful Hints Settings	Input To:
	F.2.6.3 Turn On/Off Helpful Hints
User Request to Change Settings	Triggers Function(s):
	F.2.6 Access & Edit Account Settings
	F.2.6.1 Turn On/Off Public Sharing
	F.2.6.2 Turn On/Off Proximity Alerts
	F.2.6.3 Turn On/Off Helpful Hints
	F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter
	F.2.6.5 Provide/Clear Google ID

F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter

Allocated To:

SYS.1.2.1.1 3rd Party Server

Table 56 F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter Interfacing Items

Interfacing Items	Source / Destination
Links Shared with FB and/or Twitter	Output From: F.0 Provide Geolocation Services F.2 Process Geolocation Services F.2.6 Access & Edit Account Settings F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter
User's Google ID or 3rd Party ID	Input To: F.0 Provide Geolocation Services F.1 Provide Access to MAGIC Services F.1.4 Authenticate User F.2 Process Geolocation Services F.2.6 Access & Edit Account Settings F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter F.2.6.5 Provide/Clear Google ID
User Request to Change Settings	Triggers Function(s): F.2.6 Access & Edit Account Settings F.2.6.1 Turn On/Off Public Sharing F.2.6.2 Turn On/Off Proximity Alerts F.2.6.3 Turn On/Off Helpful Hints F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter F.2.6.5 Provide/Clear Google ID

F.2.6.5 Provide/Clear Google ID

Allocated To: SYS.1.2 Data Server

Table 57 F.2.6.5 Provide/Clear Google ID Interfacing Items

Interfacing Items	Source / Destination
Basic Capabilities Enabled	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.6 Access & Edit Account Settings
	F.2.6.5 Provide/Clear Google ID
Full Capabilities Enabled	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.6 Access & Edit Account Settings
	F.2.6.5 Provide/Clear Google ID

Interfacing Items	Source / Destination
User's Google ID or 3rd Party ID	Input To:
	F.0 Provide Geolocation Services
	F.1 Provide Access to MAGIC Services
	F.1.4 Authenticate User
	F.2 Process Geolocation Services
	F.2.6 Access & Edit Account Settings
	F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter
	F.2.6.5 Provide/Clear Google ID
User Request to Change Settings	Triggers Function(s):
	F.2.6 Access & Edit Account Settings
	F.2.6.1 Turn On/Off Public Sharing
	F.2.6.2 Turn On/Off Proximity Alerts
	F.2.6.3 Turn On/Off Helpful Hints
	F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter
	F.2.6.5 Provide/Clear Google ID
User Request to go to WebSite	Triggers Function(s):
	F.2.7 Access Web Interface
	Output From:
	F.2.6 Access & Edit Account Settings
	F.2.6.5 Provide/Clear Google ID

F.2.7 Access Web Interface

Description:

For Future Upgrade of APP, it will enable user to access MAGIC's Webstire on their handheld device or computer

Allocated To:

SYS.1.1 MAGIC Application SYS.1.3 MAGIC Website

Based On:

SR.1.2.7 Access Web Interface

Table 58 F.2.7 Access Web Interface Interfacing Items

Interfacing Items	Source / Destination
MAGIC's Website Interface	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.7 Access Web Interface
User Request to go to WebSite	Triggers Function(s):
	F.2.7 Access Web Interface
	Output From:
	F.2.6 Access & Edit Account Settings
	F.2.6.5 Provide/Clear Google ID

Interfacing Items	Source / Destination
User Selection to go to Website	Input To: F.2.7 Access Web Interface

F.2.8 Close Application

Allocated To: SYS.1.1 MAGIC Application

Based On: SR.1.2.8 Close Application

Table 59 F.2.8 Close Application Interfacing Items

Interfacing Items	Source / Destination
Application Closed	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.8 Close Application
User's "END" Input	Input To:
	F.2.8 Close Application
User Request to Close Application	Triggers Function(s):
	F.2.8 Close Application

F.2.9 Go Back to Home Screen

Allocated To: SYS.1.1 MAGIC Application

Based On: SR.1.2.9 Go Back to Home Screen

Table 60 F.2.9 Go Back to Home Screen Interfacing Items

Interfacing Items	Source / Destination
MAGIC Homescreen	Output From:
	F.0 Provide Geolocation Services
	F.2 Process Geolocation Services
	F.2.9 Go Back to Home Screen
User's Input to Go Back to Home Screen	Input To:
	F.2.9 Go Back to Home Screen
	Output From:
	F.2.1 Perform a Registration
	F.2.1.6 Cancel Registration
	F.2.3 Select to Browse Map
	F.2.3.10 Comment on POI and/or Image
User Request to Go Back to Home Page	Triggers Function(s):
	F.2.9 Go Back to Home Screen

MAGIC System Component Definitions, con't

SYS.1.1.1 Graphical User Interface

SYS.1.1.1.1 Camera GUI

Built In Higher-Level Component(s): SYS.1.1.1 Graphical User Interface

Performs Function(s): F.2.4 Select to Take a Picture F.2.4.1 Take Picture

SYS.1.1.1.2 File Browser GUI

Built In Higher-Level Component(s): SYS.1.1.1 Graphical User Interface

Performs Function(s):

F.2.1 Perform a Registration

- F.2.1.1 Select Image from File Browser
- F.2.1.3 Add Additional Image to Registration
- F.2.2 Select to Browse Files
- F.2.2.1 Browse Image Thumbnails
- F.2.2.2 Choose to View by Folder
- F.2.2.3 Choose to View by Location
- F.2.2.4 Choose to View by File Type
- F.2.2.5 Choose to View by Shared Files
- F.2.2.6 Select an Image from Browser to View Image&Data
- F.2.2.7 Choose to go Back to File Browser

SYS.1.1.1.3 Map Viewer GUI

Built In Higher-Level Component(s): SYS.1.1.1 Graphical User Interface

Performs Function(s):

- F.2.3 Select to Browse Map
- F.2.3.1 Browse Map
- F.2.3.2 Select to View POIs on Map
- F.2.3.3 Select to View Images on Map
- F.2.3.4 Select to Choose Map Layers
- F.2.3.9 View Map with Selected Option

SYS.1.1.1.4 Image Viewer GUI

Built In Higher-Level Component(s): SYS.1.1.1 Graphical User Interface

Performs Function(s):

F.2.1 Perform a Registration

F.2.1.2 Label Pixel on Image

F.2.2 Select to Browse Files

F.2.2.8 Choose to View Previous Image

- F.2.2.9 Choose to View Next Image
- F.2.2.10 Choose to Share Image
- F.2.2.11 Choose to Perform a Registration
- F.2.2.12 Click Thumbnail to Enlarge Picture
- F.2.3 Select to Browse Map
- F.2.3.7 Select a POI to View Associated Images
- F.2.3.8 Select an Image On Map to View Associated Data
- F.2.3.10 Comment on POI and/or Image
- F.2.4 Select to Take a Picture
- F.2.4.1 Take Picture
- F.2.4.2 Choose to Preview Previous Saved Picture

SYS.1.1.1.5 Registration GUI

Built In Higher-Level Component(s): SYS.1.1.1 Graphical User Interface

Built From Lower-Level Component(s): SYS.1.1.1.5.1 Registration Results GUI



Figure 36 Registration GUI

Performs Function(s):

F.2.1 Perform a Registration

F.2.1.6 Cancel Registration

F.2.4 Select to Take a Picture

F.2.4.3 Select to Add Image for Registration

SYS.1.1.1.5.1 Registration Results GUI

Built In Higher-Level Component(s): SYS.1.1.1.5 Registration GUI

Performs Function(s):

SYS.1.1.1.6 Information Sharing GUI

Built In Higher-Level Component(s): SYS.1.1.1 Graphical User Interface

Performs Function(s):

F.2.5 Select to Share Image/Data

F.2.5.1 Public Share Image, Data and/or POI

F.2.5.2 Private Share Image, Data and/or POI

F.2.5.3 Push Sharing Notification to Specified User

F.2.5.4 Sharing Link With FB/Twitter

SYS.1.1.1.7 Settings Viewer GUI

Built In Higher-Level Component(s): SYS.1.1.1 Graphical User Interface

SYS.1.1.3 Information Sharing Services

SYS.1.1.3.1 Image Metadata

Built In Higher-Level Component(s): SYS.1.1.3 Information Sharing Services

Specified By: SR.2.8 Metadata Requirement

SYS.1.1.3.2 Image View

Built In Higher-Level Component(s): SYS.1.1.3 Information Sharing Services

SYS.1.1.3.3 FB/Twitter Link Sharing

Built In Higher-Level Component(s): SYS.1.1.3 Information Sharing Services

SYS.1.2 Data Server

Built In Higher-Level Component(s): SYS.1 MAGIC System

Built From Lower-Level Component(s): SYS.1.2.1 Imagery Server SYS.1.2.2 Map Server SYS.1.2.3 Sustainment Data Server


Figure 38 Data Server

Performs Function(s):

F.2 Process Geolocation Services

F.2.6 Access & Edit Account Settings

F.2.6.5 Provide/Clear Google ID

SYS.1.2.1 Imagery Server

Built In Higher-Level Component(s): SYS.1.2 Data Server

Built From Lower-Level Component(s): SYS.1.2.1.1 3rd Party Server SYS.1.2.1.2 Standalone Server



Figure 39 Imagery Server

Performs Function(s):

F.2.4.4 Name & Save Potential POI

F.2.5 Select to Share Image/Data

F.2.5.1 Public Share Image, Data and/or POI

F.2.5.2 Private Share Image, Data and/or POI

F.2.5.3 Push Sharing Notification to Specified User

Specified By:

SR.2.7 Image File Format Requirement

SYS.1.2.1.1 3rd Party Server

Built In Higher-Level Component(s): SYS.1.2.1 Imagery Server

Performs Function(s): F.2.6 Access & Edit Account Settings F.2.6.4 Activate/Deactivate Link Sharing with FB and/or Twitter

SYS.1.2.1.2 Standalone Server

Built In Higher-Level Component(s): SYS.1.2.1 Imagery Server

SYS.1.2.2 Map Server

Built In Higher-Level Component(s): SYS.1.2 Data Server

Performs Function(s):

F.2.3 Select to Browse Map

F.2.3.5 Perform Search for Specific Place

F.2.3.6 Select to "Center my Location"

F.2.3.11 Download Image and/or POI to Local Memory

SYS.1.2.3 Sustainment Data Server

- Built In Higher-Level Component(s): SYS.1.2 Data Server
- Built From Lower-Level Component(s): SYS.1.2.3.1 Update Server



Figure 40 Sustainment Data Server

Performs Function(s):

- F.2.6.1 Turn On/Off Public Sharing
- F.2.6.2 Turn On/Off Proximity Alerts
- F.2.6.3 Turn On/Off Helpful Hints
- F.4 Enable Effective Maintenance and Servicing
- F.4.1 Enable Instrument Calibration
- F.4.2 Allow Application Updates
- F.4.3 Back Up User's Data
- F.4.4 Enable Problem Reporting and Troubleshooting

SYS.1.2.3.1 Update Server

Built In Higher-Level Component(s): SYS.1.2.3 Sustainment Data Server

SYS.1.3 MAGIC Website

Built In Higher-Level Component(s): SYS.1 MAGIC System

Performs Function(s):

F.2 Process Geolocation Services

- F.2.7 Access Web Interface
- F.3 Enable Set Up of a Command Center