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Sending Apple Wallet Passes in Visitor Emails

Introduction

Visitors who receive a visit notification email on an Apple (iOS) device that supports the Apple Wallet app can add this pass to Apple Wallet on that device by clicking the attachment in the email and selecting the [Add] button when the pass is displayed. After adding the pass to the Apple Wallet, a card is shown in Apple Wallet containing information about the visit, including a barcode that can be scanned when the visitor arrives for the visit. This allows the visitor to present the visit barcode using the Apple Wallet card without opening the original visitor email, and to take advantage of Apple Wallet features triggered by time and location.

Apple Wallet Certificates

To take advantage of this functionality, some certificate management is required on the part of the OnGuard administrator. For more information, refer to "OnGuard and the Use of Certificates" in the *OnGuard Installation Guide*.

1. To generate Apple Wallet passes, obtain certificates from the Apple Developer portal located at: http://developer.apple.com/account

Note: You must create an Apple Developer account before obtaining these certificates.

2. Download the Apple Wallet Intermediate CA certificate **AppleWWDRCA.cer**.

3. Generate a pass signing certificate for your organization (***<YourCertificateName>.p12***). This certificate will contain a specific:

   • Team identifier

   • Pass type identifier

   This pass should be named in the format **pass.com.<*your organization domain*>.OnGuard-Visitor**.

4. Install the new certificates into your certificate store:

   a. Install **AppleWWDRCA.cer** into the Local Machine certificate store, in the Intermediate Certificate Authorities store.

   b. Right-click on the Apple certificate, select Open and then select the **Details** tab.

   c. Select the **Thumbprint** for the Apple certificate and then copy the thumbprint's value. You will paste this thumbprint value later in the **ACS.ini** file.

   d. Install the organization-specific certificate you generated earlier (***<YourCertificateName>.p12***) into the local machine's Personal Certificates store.

Note: When importing the certificate, enable the *Mark this key as exportable* option.

   e. Right-click on the Apple Pass certificate, select Open and then select the **Details** tab.

   f. Select the **Thumbprint** for the Apple certificate and then copy the thumbprint's value. You will paste this thumbprint value later in the **ACS.ini** file.

To configure visit notification emails with Apple Wallet support, refer to "Configure Apple Wallet Support in Visit Notification Emails" on page 2.

Configure Apple Wallet Support in Visit Notification Emails

This section describes how to include the visit notification content as an email attachment that Apple iOS device users can import into the Apple Wallet app. For more information, refer to "Configure the Visit Notification Fields" in the *Visitor Management User Guide*.

Visit Key. If the **Visit Key** field is included in the **Selected Fields** column on the Visit Notification Lists tab, then the barcode is included in the visitor email, and will also be included in the Apple Wallet pass.

Apple Wallet Certificates. Apple Wallet support requires that you install Apple Wallet certificates in your certificate store. See "Apple Wallet Certificates" on page 1.

Apple Wallet Customization Options. OnGuard allows you to customize the Apple Wallet pass that is created when sending a visitor email. You can customize the following attributes:

- Company text (logo text)
- Logo
- Foreground color
- Background color
- Label color
- GPS locations

Required Images. You must create and provide the following image files:

- Icon
  - The icon (icon.png) is displayed when a pass is shown on the lock screen, and by applications such as Mail when showing a pass attached to an email. The icon's dimensions should be 29 x 29 pixels.
- Logo
  - The logo image (logo.png) is displayed in the top-left corner of the pass, next to the logo text. The allotted space is 160 x 50 pixels, but in general it should be smaller. Ideally, the logo's dimensions should be 30 x 30 pixels.
- Strip Banner
  - The strip image (strip.png) is displayed behind the primary fields. The strip's dimensions should be 375 x 98 pixels.

Additional recommendations for the required images:

- All images must be in .png format.
- To support all screen sizes and resolutions, provide the each file in the sizes suggested above, another file at twice the suggested sizes (@2x), and another file at triple the suggested sizes (@3x). For example, if your standard-resolution image is 30 pixels × 30 pixels. The @2x version of this image would be 60 pixels × 60 pixels, and the @3x version would be 90 pixels × 90 pixels.
- Store the image files on the OnGuard server where OpenAccess is running, in the following location: **C:\ProgramData\Lnl\Wallet**.

Note: You must create the Wallet directory manually inside of the Lnl directory.

For more information about image sizes, refer to https://developer.apple.com.

ACS.ini File Modifications. You must update the AppleWallet section in the **ACS.ini** file, as shown in this sample:

Note: These changes to the ACS.ini file must occur on the same application server that hosts the LS OpenAccess service.

```
[AppleWallet]
Enabled=True
AppleCertificateThumbprint=ff6797793a3cd798dc5b2abef56f73edc9f83a64
PassCertificateThumbprint=9963548b0aa892bcfff361eb6053323cf88ff632
PassTypeIdentifier=pass.com.domain.OnGuard-Visitor
TeamIdentifier=HKJF348J7341
IconPath=C:\ProgramData\Lnl\Wallet\icon.png
Icon2xPath=C:\ProgramData\Lnl\Wallet\icon@2x.png
Icon3xPath=C:\ProgramData\Lnl\Wallet\icon@3x.png
LogoPath=C:\ProgramData\Lnl\Wallet\logo.png
Logo2xPath=C:\ProgramData\Lnl\Wallet\logo@2x.png
Logo3xPath=C:\ProgramData\Lnl\Wallet\logo@3x.png
LogoText=My Company
StripBannerPath=C:\ProgramData\Lnl\Wallet\strip.png
ForegroundColor=rgb(96, 96, 96)
BackgroundColor=rgb(255, 165, 0)
LabelColor=rgb(0, 0, 0)
OrganizationName=XYZ Corporation
Description=XYZ Campus Visit
Locations=43.044731;-77.464998;Headquarters Building|26.881410;-
80.125284;Satellite Office Building
WelcomeMessage=Welcome to your visit!
```

Apple Wallet Properties

Property Name	Description
Enabled	True or false. Controls if the Apple Pass is included in the visitor email.
AppleCertificateThumbprint	Represents the thumb print identifier for the Apple Worldwide Developer Relations Intermediate Certificate.
PassCertificateThumbprint	Represents the thumb print identifier of the certificate associated with your organization, and a specific Pass Type Identifier.
PassTypeIdentifier	Represents the Pass Type Identifier. Example: `pass.com.yourdomain.visitor`
TeamIdentifier	Represents the Team Identifier associated with your Apple Developer account.

Apple Wallet Properties (Continued)

Property Name	Description
IconPath	Represents the path to the icon (.png) image file. Example: **C:\ProgramData\Lnl\Wallet\icon.png**
Icon2xPath	Represents the path to the icon @2x (.png) image file. Example: **C:\ProgramData\Lnl\Wallet\icon@2x.png**
Icon3xPath	Represents the path to the icon @3x (.png) image file. Example: **C:\ProgramData\Lnl\Wallet\icon@3x.png**
LogoPath	Represents the path to the logo (.png) image file. Example: **C:\ProgramData\Lnl\Wallet\logo.png**
Logo2xPath	Represents the path to the logo @2x (.png) image file. Example: **C:\ProgramData\Lnl\Wallet\logo@2x.png**
Logo3xPath	Represents the path to the logo @3x (.png) image file. Example: **C:\ProgramData\Lnl\Wallet\logo@3x.png**
LogoText	Represents the logo text that is displayed next to the logo image.
StripBannerPath	This (.png) image is displayed behind any header fields that exist on the Applet Wallet pass.
ForegroundColor	Represents the Red/Green/Blue (RGB) value associated with the foreground color of the pass. Must be specified in RGB format (0,0,0).
BackgroundColor	Represents the RGB value associated with the background color of the pass. Must be specified in RGB format (0,0,0).
LabelColor	Represents the RGB value associated with the label color of the pass. Must be specified in RGB format (0,0,0).
OrganizationName	Represents the organization name associated with the Apple Wallet pass. **Note:** This is not displayed on the Apple Wallet pass.
Description	Represents the organization description associated with the Apple Wallet pass. **Note:** This is not displayed on the Apple Wallet pass.

Apple Wallet Properties (Continued)

Property Name	Description

Locations	Optional property. Represents the possible GPS coordinates associated with the Apple Wallet pass.
	
	You must specify the location using the following format:
	
	`Latitude;Longitude;RelevantText`
	
	You can provide multiple locations by separating each entry with the bar ("|") symbol.
	
	Example:
	
	`43.044731;-77.464998;Headquarters Building|26.881410;-80.125284;Satellite Office Building`

WelcomeMessage	The welcome message that is shown on the Apple Pass.