Functional Specification

**PhilamLife Wrapper**

**Version 1.1**

# Revision Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Version No. | Date | Revision Description | Author(s) | Approver(s) |
| 1.0 | July 4th 2016 | Initial Version |  |  |
| 1.1 | Sep 5th, 2016 | Update Section 4.1.1 to specify the landing page details |  |  |
|  |  |  |  |  |
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|  |  |  |  |  |

# Approval / Signoff

|  |  |  |  |
| --- | --- | --- | --- |
| Approver name and title | Function or Department | Signature or Email attachment | Signoff date |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Distribution List

|  |  |
| --- | --- |
| **Company / Department** | **Person / Group** |
| Philam Life Agency Sales Force |  |
| Philam Life ASG Team |  |
| Philam Life IT Support Team |  |
| AIA TSS Team |  |
|  |  |
|  |  |

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# Objective

interactive Mobile Office (iMO) Wrapper module is to centralize login process, provide common functions such as authentication checking, version upgrade process, access control to all sub apps.

# Assumptions, dependencies and constraints

# Requirement trace index

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Business requirement (BR) number** | **Functional requirement (FR) number** | Initiated by | Function Name | Other system/ people participating |
|  | FR01 | Advisor, Internal staff | Online login and activation in wrapper | Staging, Wrapper |
|  | FR02 | Advisor, Internal staff | Offline login wrapper | Wrapper |
|  | FR03 | Advisor, Internal staff | Sub App Online login | Staging, Wrapper, Sub apps |
|  | FR04 | Advisor, Internal staff | Log Out | Wrapper, Sub apps |
|  | FR05 | Advisor, Internal staff | Common functions | Advisor, Internal staff |

# Detailed functional descriptions

Overall login scenario and result:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Connect to server | Login before | Time checking pass | Time bomb pass | Pass TB alert | ID lock pass | ID/PWD Pass | Has new version | Result | Login to landing page |
| Y | N | N/A | N/A | N/A | N/A | Y | N | Show terms and condition then create DB, then go to landing page. | Y |
| Y | N | N/A | N/A | N/A | N/A | Y | Y | Show terms and condition then get profile and created DB, then alert user to download new version. For optional upgrade if cancel for download then go to landing page. | Y |
| Y | N | N/A | N/A | N/A | N/A | N | N/A | Return according error message from server/portal, and block login | N |
| Y | Y | N | N/A | N/A | N/A | N/A | N/A | Alert user to reset time then login again, then quite app | N |
| Y | Y | Y | N/A | N/A | N/A | N | N/A | Return according error message from server/portal, and block login. | N |
| N | N | N/A | N/A | N/A | N/A | N/A | N/A | Alert user to online activate first then back to login page | N |
| N | Y | N | N/A | N/A | N/A | N/A | N/A | Alert user to reset time then login again, then quite app | N |
| N | Y | Y | N | N/A | N/A | N/A | N/A | If meet first time bomb then alert user to online login then back to login page. If meet second time bomb then remove DB and alert user then quite app | N |
| N | Y | Y | Y | N | N | N/A | N/A | If meet alert of first time bomb then alert remaining days of online login then continue for next checking. Alert user ID locked, need to online login then back to login page. | N |
| N | Y | Y | Y | Y | N | N/A | N/A | Alert user ID locked, need to online login then back to login page | N |
| N | Y | Y | Y | Y | Y | N | N/A | Alert User ID/Password is wrong, if reach 5 times then lock ID, then back to login page. | N |
| N | Y | Y | Y | Y | Y | Y | N | Login to landing page | Y |
| N | Y | Y | Y | Y | Y | Y | Y | Alert user to download new version. For optional upgrade if cancel for download then go to landing page. | Y |

# FR-01 Online login and activation from Wrapper



# Login Page

UI element for different BUs.

|  |  |  |  |
| --- | --- | --- | --- |
| Wrapper functions | HK | TH | PHL |
| Login Page |  |  |  |
| 1. ID/Password | Yes | Yes | Yes |
| 2. Languages | Traditional Chinese/English/Simple  Default is traditional Chinese | Thailand/English  Default is Thailand | No  English only |
| 3. Background image setting | Yes | Yes | Yes |
| 4. Online/Offline switch | Yes | No | No |
| 5. Trail Mode | Yes | No | No |
| 6. Version Number | Yes | Yes | Yes |
| 7. Device ID | No | Yes | No |
| Landing Page |  |  |  |
| 1. Account Name | Yes | Yes | Yes |
| 2. logout | Yes | Yes | Yes |
| 3. version Number | Yes | Yes | Yes |
| 4. Device ID | No | Yes | No |

1. ID/Password is agency portal ID/Password, or internal staff LAN ID and password.
2. Language selection will be saved for the account and show the selected Language for continuing login
3. iMO login and landing page background can be set separately by different BUs
4. Online/Offline switch if special for HK version, the logical is same as HK iPoS
5. Tail Mode login is special for HK version, the logical is same as HK iPoS
6. Account Name, will show Staff Name or Agent Name.
7. Version number format: common version number will be Major. Middle. Miner number with build number, such as below

V 1.12.1 Build 161203

1. Device ID is special for TH version, it display following the version number and used for lost device function.

# First Activation and login from Wrapper

Below is the common login process and assumption is user is first time to use Wrapper on the iPad and can connect to staging server during login process.

1. Advisor clicks Wrapper icon, system will check below device **4.5.1 jail broken** status, if pass then go to next step otherwise will quite to iPad home page.
2. System shows login page, user inputs ID/Password to login online.

Before connect to server, system will check input ID/Password by below rules

* 1. User ID:

If input user ID only include number then treated as agent ID. When pass to backend need to prefill 0 until reach 10 digital.

* 1. Password:

Input less than 20 digitals, include English letters, numbers or symbol, some special symbol are forbidden to input detail rules need to be confirmed with each BUs IT department

* 1. Mandatory checking:

If User don’t input either User ID or Password then click login button, system will pop up below message to let user input ID/Password

“Please provide User ID and Password to log on.”

1. When then account is not existed in local, system will check **4.5.2 server connection** then do **4.5.3 authentication** **checking**.
2. After authentication checking passed, system show **4.5.4 Terms and Conditions** with AGREE and DISAGREE button.

Click DISAGREE will go to login page.

1. User click AGREE button, system create this account and get below information of this account.

Agent profile, time bomb setting, wrapper version, sub app version; login server time, Wrapper and sub app access right.

1. System will do **4.5.5 Version Upgrade** checking after account created, if no need to install new version of Wrapper then **4.5.6 upload Wrapper log** to staging then go to Landing Page.
2. On Landing Page system will highlight all sub app that has been installed in local device and show red point on according sub app icon that has new version to download.

# Following online login from Wrapper

Below is the common login process and assumption is user account has been created in Wrapper.

1. Same as Section 4.1.2 step 1 to check Jail broken status
2. Same as Section 4.1.2 step 2 to input ID/Password
3. When then account existed in Wrapper, system will check **4.5.2 server connection** then do **4.5.3 authentication** **checking**.
4. After authentication checking passed, system get below information of this account.

Agent profile, time bomb setting, wrapper version, sub app version; login server time, Wrapper and sub app access right.

1. Same as Section 4.1.2 step 6-7 for version upgrade checking and log uploading.

# Login Sub app from Wrapper

Wrapper is login success fully

1. Sub app icon will show on wrapper landing page base on below rules:
   1. Sub app icon will show on wrapper landing page if it has been installed on the device, otherwise will be hidden.
   2. A red point will show on sub app’s icon when there are new version to download.
2. Click sub app icon will check the access right of this sub app, if can access then go to next step otherwise will pop up below message with OK button then stay on wrapper landing page.

“You haven’t access right for this application, please contact system admin for details.”

1. Sub app will process version upgrade process if there are new version to download, otherwise will go to self’s home page.

# FR-02 Offline login from wrapper



# Login Wrapper offline

Below is the common off line login process

1. Same as Section 4.1.2 step 1 to check Jail broken status
2. Same as Section 4.1.2 step 2 to input ID/Password
3. System failed to connect to staging server and the input ID is not existed in wrapper then system pop up alert message with OK button to let user login online for first activation then back to login page.

“Account is not existed please login online first.”

Otherwise system will do **4.5.8 local time checking**, if pass then continue to next step.

1. System will do **4.5.7 time bomb checking**, if pass then continue to next step.
2. System will check whether **4.5.9 ID locked,** if pass then continue to next step.
3. System will check User ID Password, if correct then continue to next step, otherwise will pop up below message then back to Wrapper login page.

“Wrong User ID or Password please input again.”

1. Same as Section 4.1.2 step 6 for version upgrade checking, if no need to upgrade version then go to landing page.
2. The sub app icon and login process is same as **4.1.4 Login sub app.**

# FR-03 Start from Sub app



# Description

1. User click the sub app, system will check below device **4.5.1 jail broken** status, if pass then go to next step otherwise will quite to iPad home page.
2. System will check whether wrapper installed, if yes will go to next step Otherwise will pop up message with OK button then quite sub app.

“Please install Wrapper for login.”

1. System try to get login account information from Wrapper, wrapper will go through below checking, if all pass then go to sub app default page.
   1. Account login already
   2. Session time out checking
   3. Access right checking
   4. Version upgrade checking

# FR-04 Log out

# Wrapper log out

1. Click log out in Wrapper will pop up below message with OK and Cancel button.

“Are you confirm to log out?”

1. Click OK, quite wrapper and click each sub app will go to wrapper login page.
2. Click Cancel will keep in landing page, click each sub app can continue to use when session is not expired.

# Sub app log out

1. Click log out in sub app will let user confirm to logout with OK and Cancel button.
2. Click OK, quite sub app and click wrapper and each sub app will go to wrapper login page.
3. Click Cancel will keep in sub app current page, click each sub app can continue to use when session is not expired.

# FR-05 Common functions

# Jail Broken

When user used jail broken device, then system will pop up below message with OK button, after click OK button will quite app and back to iPad home page.

“Your device is jail broken, can’t use this application.”

# Server connection

Before connect to staging, system will do below checking then pop up common error message

1. Connection available checking:

System whether has Wi-Fi or 3/4G connection, if not will show below message

“Please connect to internet then try again.”

1. Server Time comparison:

If |iPad time – server time|>3600s, there will pop-up a message to let user adjust the iPad time.

“Your Device date/time is not accurate. Please re-set your device date/time”

1. Connection Mode checking:

Whether this action has connection mode limitation (Wi-Fi Only, or Both Wi-Fi an 3/4G), if under illegible connection mode then pop up below message

“3/4 G connection are limited, please change to Wi-Fi then try again.”

1. Server response checking:

System try to get response from server, if no response then show below message

“Server connection is failed, please contact system admin or try it later.”

1. Connection speed checking:

System gets server response but the speed is very slow then show below message

“Connection speed is too slow, please try it in better connection environment”

# Authentication checking

For authentication checking will get below exception result:

1. Staging server no response:

System show common error message with OK button then stay on Login page.

1. Authentication failed and get specified error code:

System pop up according error message such as password expired, terminated user, etc. with OK button. Then stay on login page.

1. Back end exception for authentication checking and server return specified error code:

System show according message with OK button then switch to offline mode to do time bomb, ID lock checking If pass then go to landing page.

# Terms and Conditions

Terms and Conditions content are different for each BU.

1. HK Version
2. TH Version
3. PHL-PAL Version

# Version Upgrade

1. Wrapper version upgrade:

Wrapper’s new version number and effective date are set on staging server. Version number divided into 3 part: Major Version, Middle Version, and Minor Version. For example Version 1.0.2. Effective Date is used for mandatory version upgrade checking.

Version upgrade has below scenarios:

* 1. Forced upgrade:

If local version is less than server new version and current local date later than server Effective Date. Then system will pop up force upgrade message box with OK button. Click OK button will go to new version download process and need to re-login wrapper and all sub apps.

“Wrapper has new version, please click OK to download now.”

* 1. Optional upgrade:

If local version is less than server new version and current local date earlier than server Effective Date. Then system will pop up optional upgrade message box with DOWNLOAD and DOWNLAOD LATER button.

“Wrapper has new version and need to be installed in %d days.”

%d days = Server Effective Date –Local Date

1. Sub app version upgrade:

Sub Apps’ new version number and effective date are set on staging server as well.

A red point will show on sub app’s icon when local sub app version is less than server new version and the sub app has been installed on local device.

Click sub app will go to app self’s Force upgrade or Optional upgrade process. After sub app launched success will update local version to wrapper.

# Wrapper log record and upload

1. To monitor the activation and login process in Wrapper, system records below action as log history

* Activation
* Online Login
* Offline Login
* Click Sub app
* Log out

1. Record below information in the log

* Agent Code
* Action
* Date and time
* For login action, record device model (iPad Air etc.) and the version (iOS 8.1.3 etc.)

1. System uploads the log to staging server automatically during login process when login with internet connection. After uploading the log, remove the log from local device.

For example, after agent login and Click Business Planner, system will has below logs.

|  |  |  |
| --- | --- | --- |
| **Agent Code** | **Action** | **Date and Time** |
| 0000150240 | Login by iPad Air and IOS 8.1.3 | 2015-06-04 16:00:32 |
| 0000150240 | Click Business Planner | 2015-06-04 16:01:30 |

# Time Bomb Checking



1. Before Grace period:

Time bomb checking pass, continue for next step process.

1. During Grace Period:

System will pop up below message with OK button to reminder user login online. Then continue for next step process.

“Please login with the internet connection in the coming %d days. Otherwise your ID will be locked. Please contact IT support hotline for any enquiries.”

%d days = last online login date + first time bomb days – current date

1. During Destruction Period:

System will pop up below message with OK button and block offline login. System back to Wrapper login page.

“You have not connected to the internet for more than %d days. Please connect to the internet and login again.

%d days = first time bomb days

1. After Destruction Period:

System will pop up below message with OK button and remove the account from Wrapper and launch all sub app to remove all data, then quite to iPad Home page.

“Your agent profile has been removed from this iPad, please reactivate your account via ‘Online Login’ mode.

# Local time checking

When login as off line mode, system will compare current login time with previous login time. If current login time < Previous login time then system pop up below message with OK button. Then system will back to wrapper login page.

“Your Device date/time is not accurate. Please re-set your device date/time”

# Lock Local ID

1. When meet below scenario, local ID will be locked and can’t login as offline mode.

* Online authentication failed except server no response or back end exceptions.
* Offline input wrong password more than XX times. XX is different setting for each BU.

1. If Local ID Locked then system will pop up below message with OK button and back to Wrapper login page.

“Your ID has been locked please login online to unlock your account."

# Session Time Out

Session period setting is different for each BUs, Wrapper and all sub apps share one session period. When launch Wrapper or any of sub app, system will check whether session period is expired. If yes, system will pop up below message with OK button. Then Log off Wrapper and all sub apps.

“System has not been inactive for 20 minutes. System will auto logout"

# Authentication request from sub app

For below scenario, sub app need to do online login first then will pop up common login page and go through online login process

* Offline login then need to download or submit data to staging server for first time.
* Online login before but token expired.

Online login process

1. System pop up below screen in sub app, then let user input ID/Password
2. Go through **4.5.2 Server connection** and **4.5.3 Authentication checking**. If pass then continue for previous action in sub app.

# Data requirements

N/A

# Reference

TS

# Appendix

# Appendix A

