**Base Agent Creation procedure for Mac**

1. Go to the path : Documents/WorkspaceDev/Dev\_Jars/github .
2. Inside this github , create a folder with name as { base agent version } .
3. Open terminal and go to this created folder path .

* cd Documents/WorkspaceDev/Dev\_Jars/github/{ base agent version}/

1. Cloning the code from Github to local

* Run : git clone -b { base agent version\_br } git@github.com:ParabluInc/Endpoints.git
* For checking the branch run : git branch

1. Run : cd Endpoints/

* To check whether the code is built or not Run : ls

1. Run : 1 ) cd GeneralHelper/

2 ) mvn clean compile install

3 ) cd ..

1. Run : 1 ) cd Core/

2 ) mvn clean compile install

3 ) cd ..

1. Run : 1 ) cd Common/

2 ) mvn clean compile install

3 ) cd ..

1. Run : 1 ) cd Mac/SyncMac

2 ) mvn clean compile install

1. Go to the path : Documents/WorkspaceDev/Dev\_Jars/github/{ base agent version } /Endpoints/LibrarySupport/Mac
2. Copy the 4 jar files present in above Mac folder
3. endpoints-common-2.1.jar
4. endpoints-core-2.1.jar
5. endpoints-generalhelper-2.1.jar
6. endpoints-mac-syncmac-2.1.jar
7. Go to path : Desktop/AppContents/APP Creation/lib
8. Paste the 4 copied jars inside this lib folder .
9. Delete Parablu\_EPA inside APP Creation folder ( path : Desktop/AppContents/APP Creation )
10. Open Terminal and go to path cd Desktop/AppContents/APP Creation/ and Run :

/Library/Java/JavaVirtualMachines/jdk-17.0.2.jdk/Contents/Home/bin/jpackage --type app-image --app-version 2.5.5 --copyright "© Parablu Inc." --description "Parablu Endpoint Backup Agent" --icon ParaBlu.icns --name Parablu\_EPA --input lib/ --dest . --temp temp --vendor "Parablu Inc." --main-jar endpoints-mac-syncmac-2.1.jar --runtime-image zulu-17.jre --verbose

1. Go to the path : Desktop/AppContents/APP Creation and copy the Frameworks folder present inside APP Creation folder.
2. Open APP Creation folder and right click on Parablu\_EPA file .

* Show package contents > contents > Paste Framework folder inside this contents folder .

1. Copy info.plist file from APP Creation folder .
2. Open contents folder ( Parablu\_EPA :right click: show package contents > contents ) and delete existing info.plist file and paste the newly copied info.plist file .
3. Copy the following 3 files from APP Creation folder .
4. libsigar-universal64-macosx.dylib
5. libsparkle-init.dylib
6. sqlite-jdbc-3.27.2.1.jar
7. Go to contents > app > and paste these 3 files inside this app folder .
8. Go to APP Creation folder and open Parablu\_EPA.cfg file and copy the last 4 lines of code present in it below the heading Java Options .
9. Go to APP Creation > Parablu\_EPA : right click : show package contents > contents > app > and open Parablu\_EPA.cfg file present in this app folder and remove the lines at last below the heading Java Options and paste the 4 copied lines below that heading .
10. Open Terminal and Go to the path : cd Desktop/AppContents/APP Creation/
11. Run the following commands one after one :

codesign --remove-signature Parablu\_EPA.app/Contents/Frameworks/Sparkle.framework/Resources/Autoupdate.app/

codesign --remove-signature Parablu\_EPA.app/Contents/Frameworks/Sparkle.framework/Versions/A/

codesign --remove-signature Parablu\_EPA.app/Contents/app/libsigar-universal64-macosx.dylib

codesign --remove-signature Parablu\_EPA.app/Contents/app/libsparkle\_init.dylib

codesign --remove-signature Parablu\_EPA.app/Contents/app/sqlite-jdbc-3.27.2.1.jar

codesign --remove-signature Parablu\_EPA.app/Contents/runtime/Contents/Home/lib/libjli.dylib

codesign --remove-signature Parablu\_EPA.app/Contents/MacOS/Parablu\_EPA

codesign --remove-signature Parablu\_EPA.app/Contents/runtime

codesign --remove-signature Parablu\_EPA.app/

codesign --timestamp --options=runtime --deep -s "Developer ID Application: ParaBlu Systems Private Limited" Parablu\_EPA.app/Contents/Frameworks/Sparkle.framework/Resources/Autoupdate.app/

codesign --verify --deep --strict --verbose Parablu\_EPA.app/Contents/Frameworks/Sparkle.framework/Resources/Autoupdate.app/

codesign --timestamp --deep -s "Developer ID Application: ParaBlu Systems Private Limited" Parablu\_EPA.app/Contents/Frameworks/Sparkle.framework/Versions/A/

codesign --verify --deep --strict --verbose Parablu\_EPA.app/Contents/Frameworks/Sparkle.framework/Versions/A/

codesign --timestamp --deep -s "Developer ID Application: ParaBlu Systems Private Limited" Parablu\_EPA.app/Contents/app/libsigar-universal64-macosx.dylib

codesign --verify --deep --strict --verbose Parablu\_EPA.app/Contents/app/libsigar-universal64-macosx.dylib

codesign --timestamp --deep -s "Developer ID Application: ParaBlu Systems Private Limited" Parablu\_EPA.app/Contents/app/libsparkle\_init.dylib

codesign --verify --deep --strict --verbose Parablu\_EPA.app/Contents/app/libsparkle\_init.dylib

codesign --timestamp --deep -s "Developer ID Application: ParaBlu Systems Private Limited" Parablu\_EPA.app/Contents/app/sqlite-jdbc-3.27.2.1.jar

codesign --verify --deep --strict --verbose Parablu\_EPA.app/Contents/app/sqlite-jdbc-3.27.2.1.jar

codesign --timestamp --deep -s "Developer ID Application: ParaBlu Systems Private Limited" Parablu\_EPA.app/Contents/runtime/Contents/Home/lib/libjli.dylib

codesign --verify --deep --strict --verbose Parablu\_EPA.app/Contents/runtime/Contents/Home/lib/libjli.dylib

codesign --timestamp --deep -s "Developer ID Application: ParaBlu Systems Private Limited" Parablu\_EPA.app/Contents/runtime/

codesign --verify --deep --strict --verbose Parablu\_EPA.app/Contents/runtime

codesign --timestamp --entitlements ~/Desktop/AppContents/jpackage/entitlements.plist --options=runtime --deep -s "Developer ID Application: ParaBlu Systems Private Limited" Parablu\_EPA.app/Contents/MacOS/Parablu\_EPA

codesign --verify --deep --strict --verbose Parablu\_EPA.app/Contents/MacOS/Parablu\_EPA

codesign --timestamp --entitlements ~/Desktop/AppContents/jpackage/entitlements.plist --options=runtime --deep -s "Developer ID Application: ParaBlu Systems Private Limited" Parablu\_EPA.app/

codesign --verify --deep --strict --verbose Parablu\_EPA.app/

1. Copy the Parablu\_EPA present inside APP Creation folder .
2. Create a folder with name as { base agent version } inside the jpackage folder ( path : Desktop/AppContents/jpackage ) and paste this copied Parablu\_EPA file inside this { base agent version } folder .