

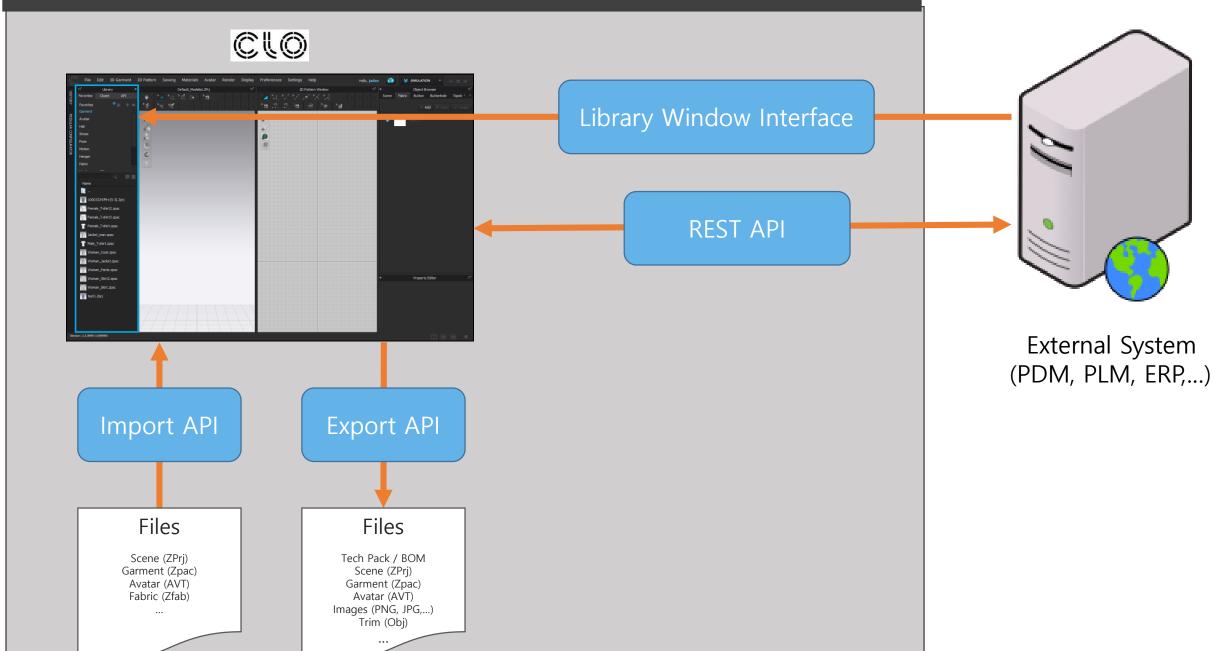
CLO API

About CLO API

- For Both Windows and Mac
- C++
- The first version has been released with CLO v5.0
- Use cases
 - 1. For creating PLUG-INs to extend the functionality of CLO
 - 2. CLO Library Window Customization to transfer data from external systems like PDM/PLM
- Link to download API/SDK Package and Manual (https://support.clo3d.com/hc/en-us/articles/360017616633-CLO-API-SDK-Guide)

Overview

CLO APIs



Inbound – PLM to CLO

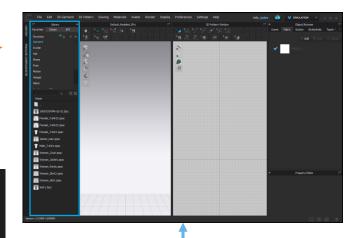


- File
- Thumbnail
- Meta data like
 Folder
 Hierarchy,
 Style No., Item
 ID,…

Library Window Interface

API Developer needs to implement the body of each interface

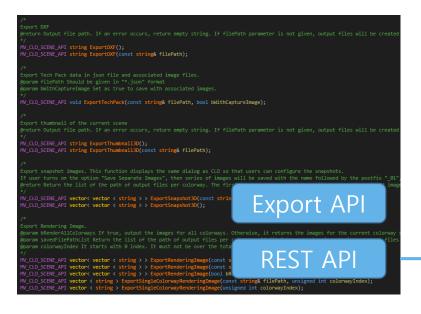
```
irtual string GetItemList(const string& itemId, unsigned int pageNo, unsigned int pageSize, CLO_FINDER_SORT sort, bool bAscending, const string& searchText)
irtual string GetSearchItemList(unsigned int pageNo, unsigned int pageSize, CLO_FINDER_SORT sort, bool bAscending, const string& searchText)
irtual bool GetParentFolderID(const string& itemId, string& parentFolderID)
param itemId The ID of a file item
param sizeInByte The size of returned thumbnail image data in bytes
irtual CLO_BYTE* GetPNGThumbnail(const string& itemId, unsigned int& sizeInByte)
irtual string GetMetaData(const string& itemId)
```

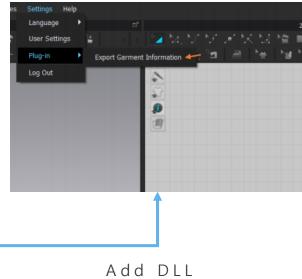


Add DLL

Outbound - CLO to PLM

API Developer needs to make a PLUG-IN.











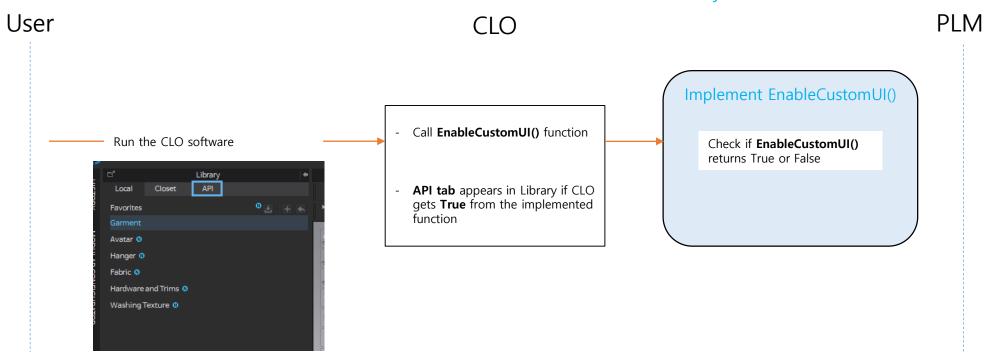
- Files (Zpac, OBJ, ...)

- ..

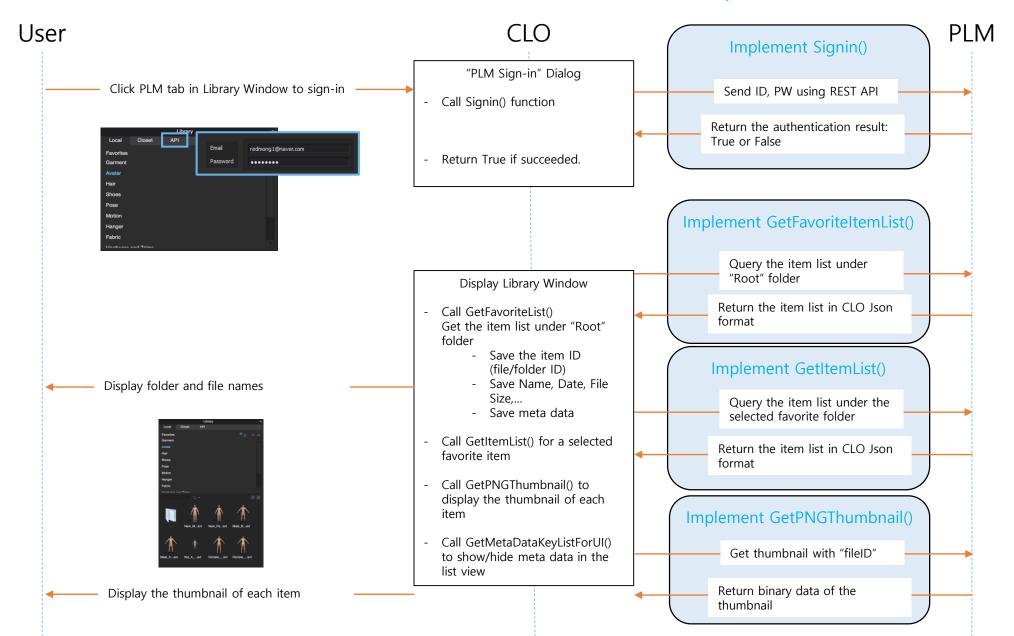


Workflow

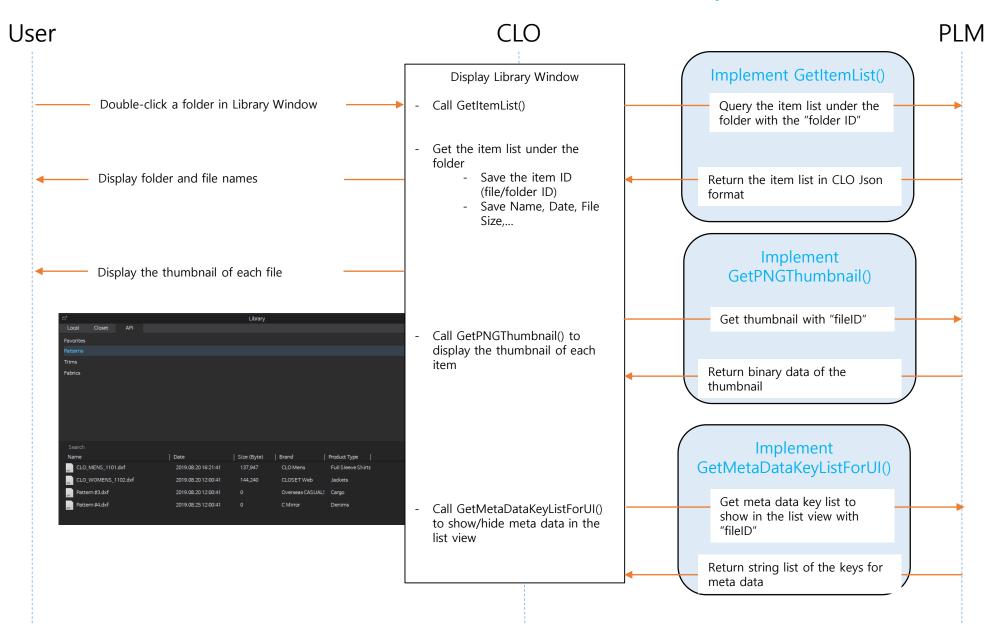
0. Enable "API" tab in Library Window



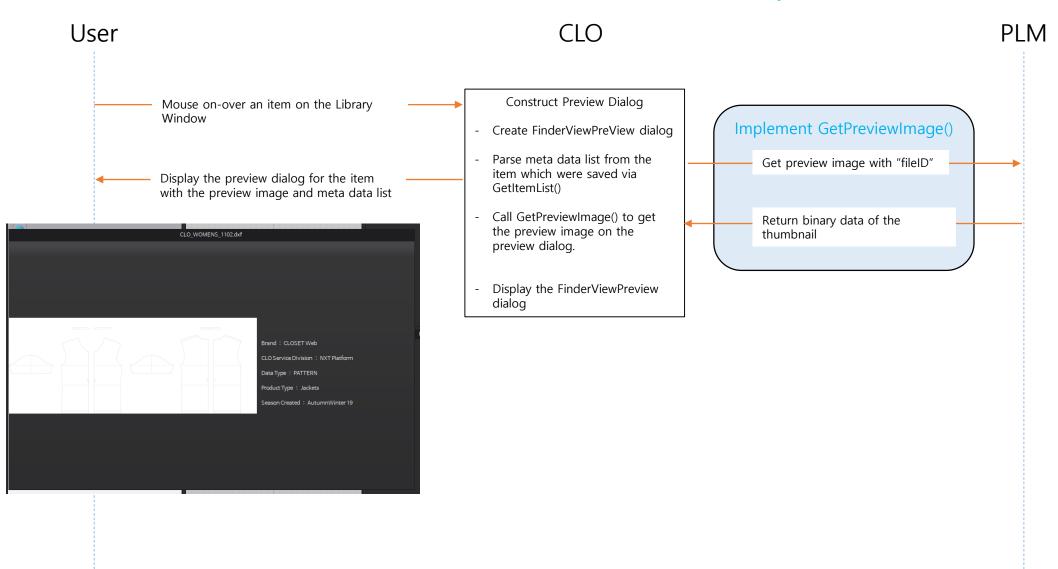
1. Sign-in to PLM and Display "Root" folder



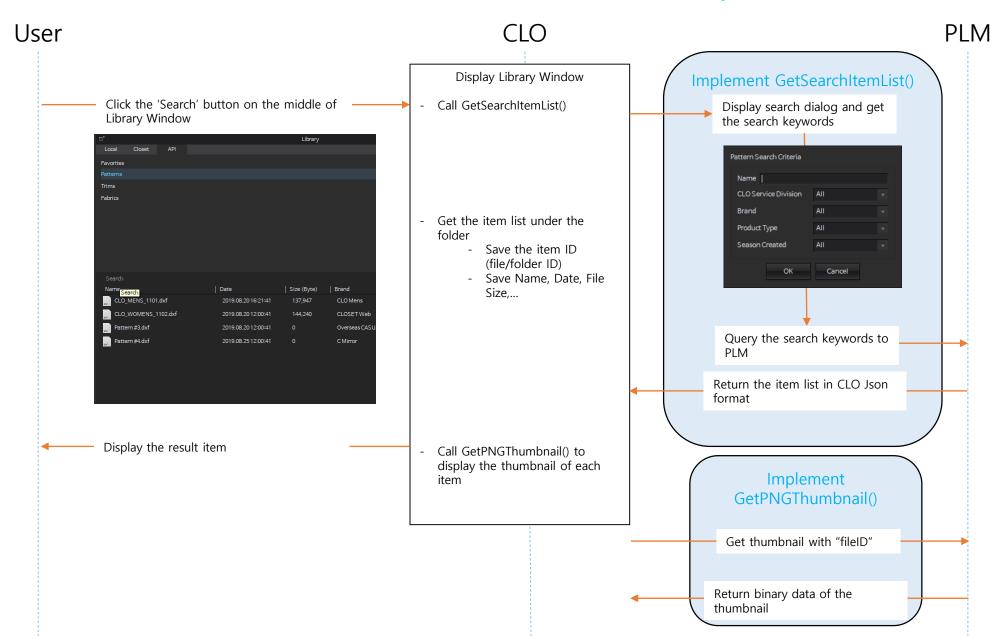
2. Browse PLM folder



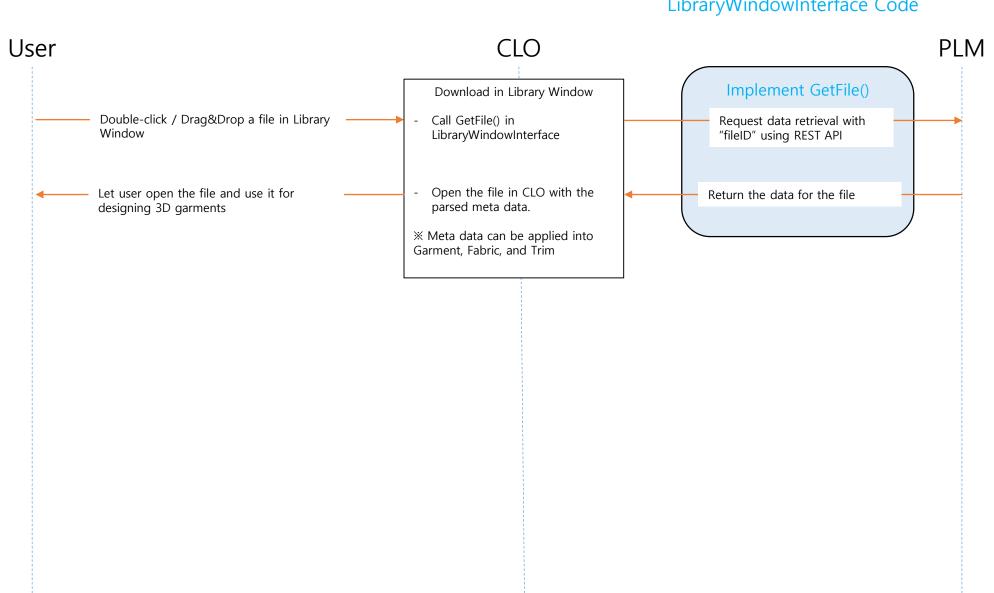
3. Customizing Preview Dialog



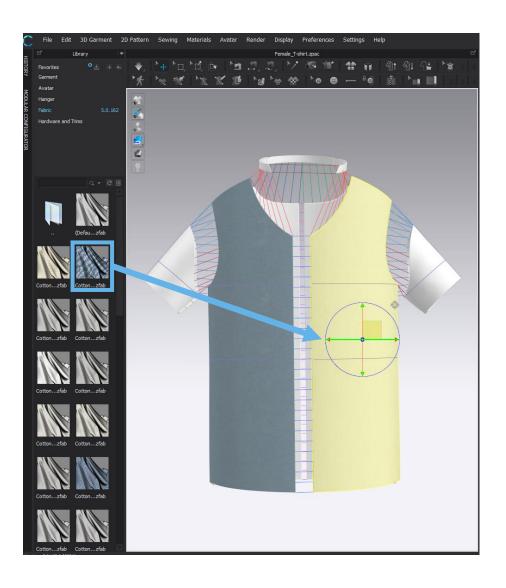
4. Search Items



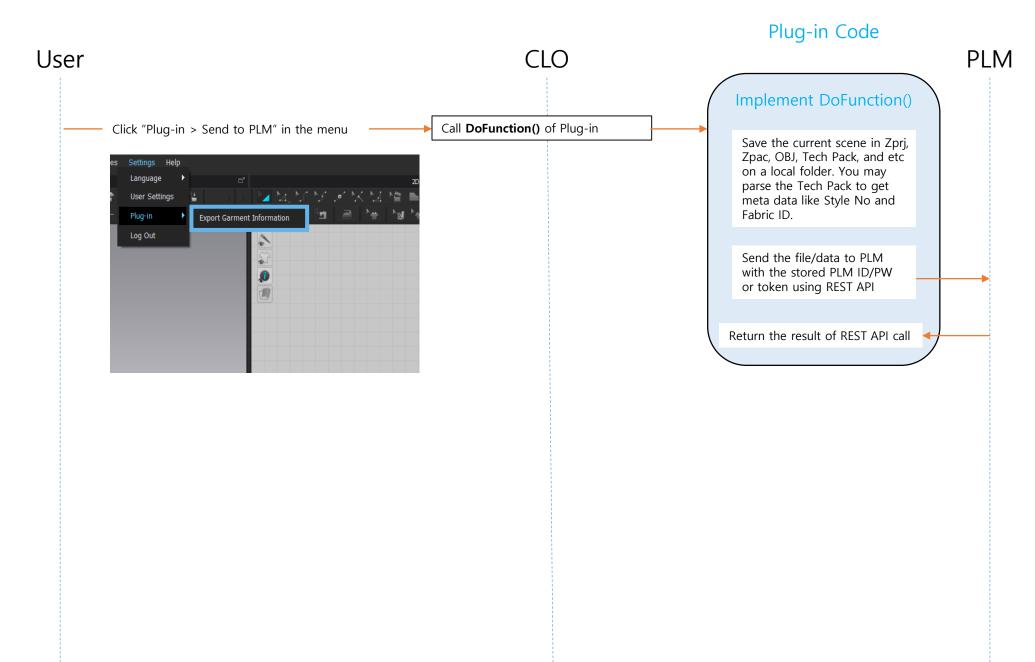
5. Get PLM file/data



6. Design garment



7. Send CLO file/data to PLM



8. Analyze and Save data on PLM

JSON Editor Online 4 "zpacPath": "output.ZPac", // [v1.1] zpac file path (this file is created only via CLO API) "zprjPath": "output.ZPrj", // [v1.1] zprj file path (this file is created only via CLO API) -> [v1.2] "projectFile "zrestPath": "output.zrest", // [v1.0] zrest file path (this file is created only for CLOSET). -> [v1.1] absolute 8 "lengthOfSeamLines": 355.535, // [v1.0] unit is inch. Total length of seam lines to estimate how much sewing three 9 "numberOfPatterns": 30, // [v1.0] total number of patterns 10 "areaOfPatterns": 0.89348, // [v1.0] unit is m^2. The consumed area of whole patterns. "fitting": 0, // [v1.0] for BenefitByCLO API (0: impossible , 1 : possible) "thumbnail": [// [v1.0] "thumbnail o.png", // front thumbnail "thumbnail_l.png", // left thumbnail "thumbnail_b.png" // back thumbnail 16 "patternLayoutThumbnail": "patternLayoutThumbnail.png", // [v1.3] 19 "currentColorwayIndex": 0, // [v1.2] "colorwayList": [// [v1.2] 21 + 23 "name": "colorway 0", "thumbnail": [// colorway thumbnail front, side, back in order. 25 "colorway0_thumbnail0.png", // front "colorway0 thumbnail1.png", // side 26 27 "colorway0_thumbnail2.png" // back 28 "thumbnailWithAvatar": [// colorway thumbnail with avatar 30 "colorway0_thumbnailWithAvatar0.png", // front "colorway0_thumbnailWithAvatar1.png", // side 32 "colorway0 thumbnailWithAvatar2.png" // back 33 "modularMark": 0, // [v1.2] to show if modular is used or not (0: not used, 1: used) (for CLO API) "modularTemplateFileName": "Jacket.Double.zmdr", // [v1.2] modular structure file name (for CLO API), optional 37 "modularBlockList": [// [v1.2], optional. 39 + 40 "id": 3813, "name": "Pattern2D 4127611", "type": "Body", "position": "Back" "singleDual": "Single", 46 "zblcName": "Body_B.DoubleVent", 47 48 "patternList": [// [v1.2]

Teck Pack (.json) sent to PLM contains all information

- Data brought from PLM
 - Style No
 - Fabric, Trim ID
 - Organization data (Brand, Season, Line,...)
 - * Based on this information, you can decide on where to store the file (send from CLO) in PLM
 - * Meta Data sections for Garment(Style), Fabric, Trim in Tech Pack (.json) file (New)
- Data created in CLO
 - Thumbnail of each item(pattern, fabric, trim, graphic, colorway)
 - The number of each item
 - Information about each item
 - Fabric consumption, button weight
 - How many each fabric/trim/graphic is used

- ..

Blue part: should be implemented by your developers — Plug-in, LibraryWindowInterface

