

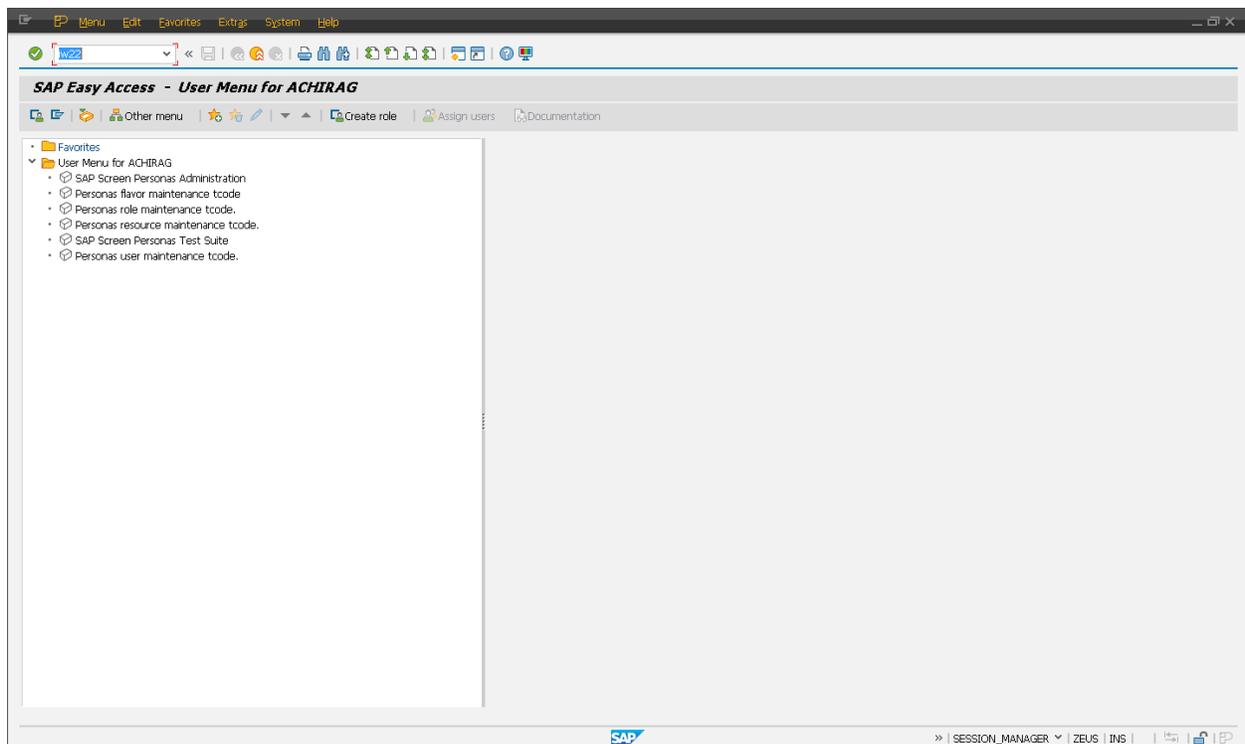
# Liquid UI: Using Word Automation to Create a Doc

## Purpose

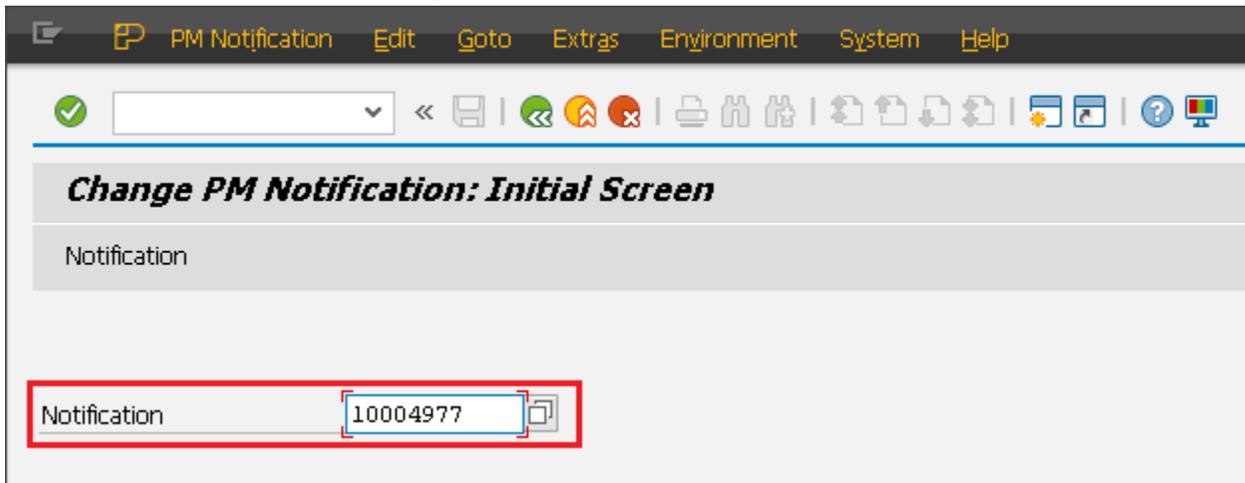
This forum article will show an example of how we can update a Word document in LiquidUI. We will take data from a notification in IW22 and update a document marked with specific tags. Then the document will be saved as a new file, therefore never overwriting the template document. In order for this to work, you must load wsoffice.dll in the ESESSIONS.SJS file.

## User Interface

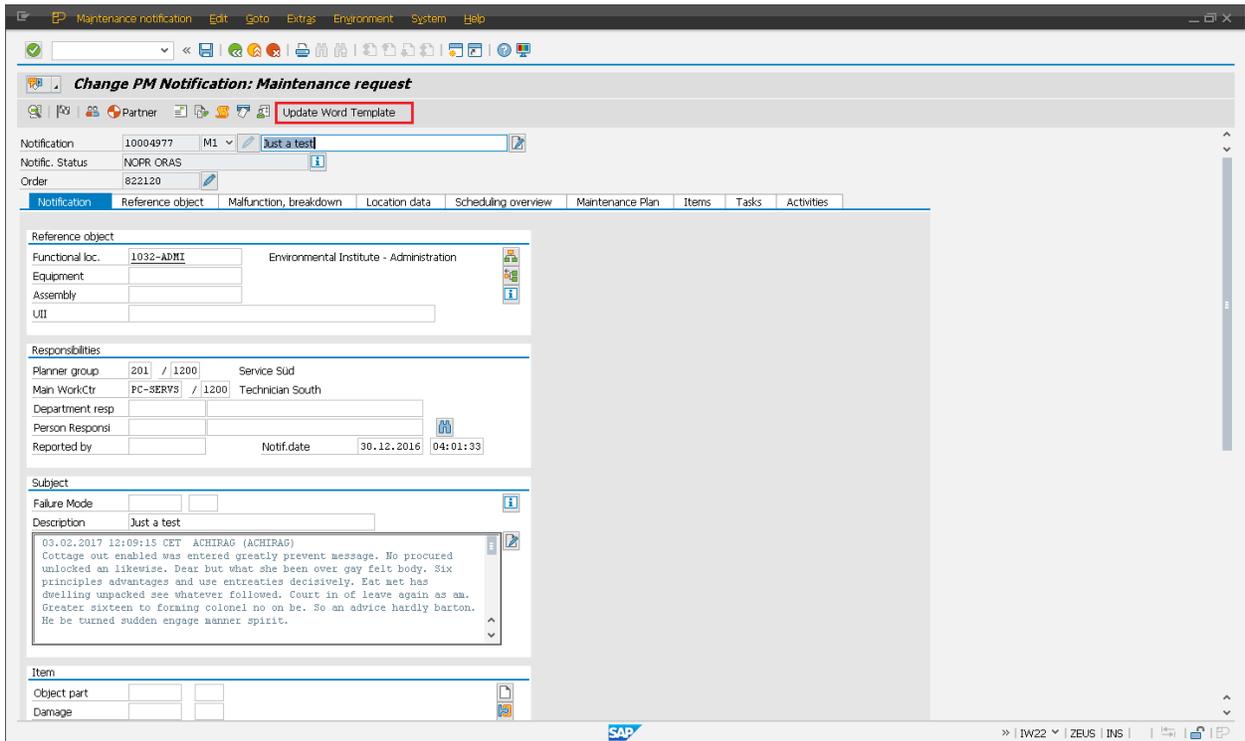
Log into SAP and navigate to IW22.



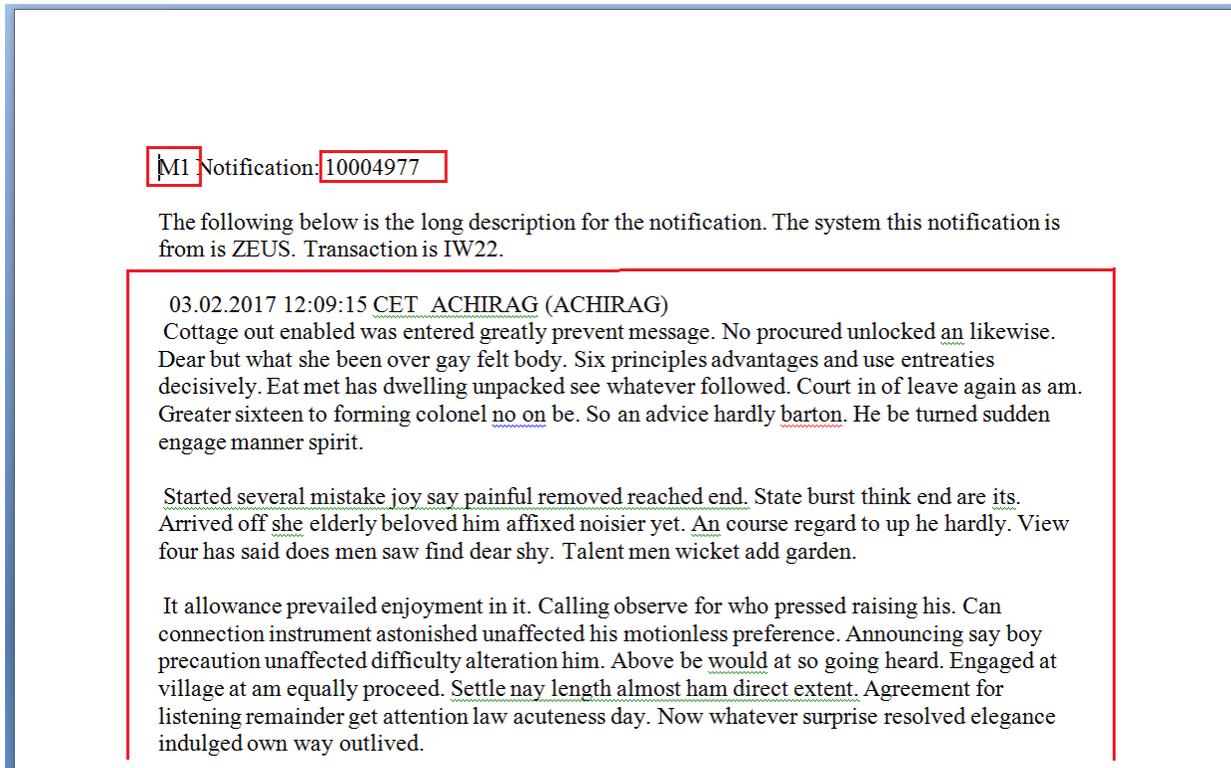
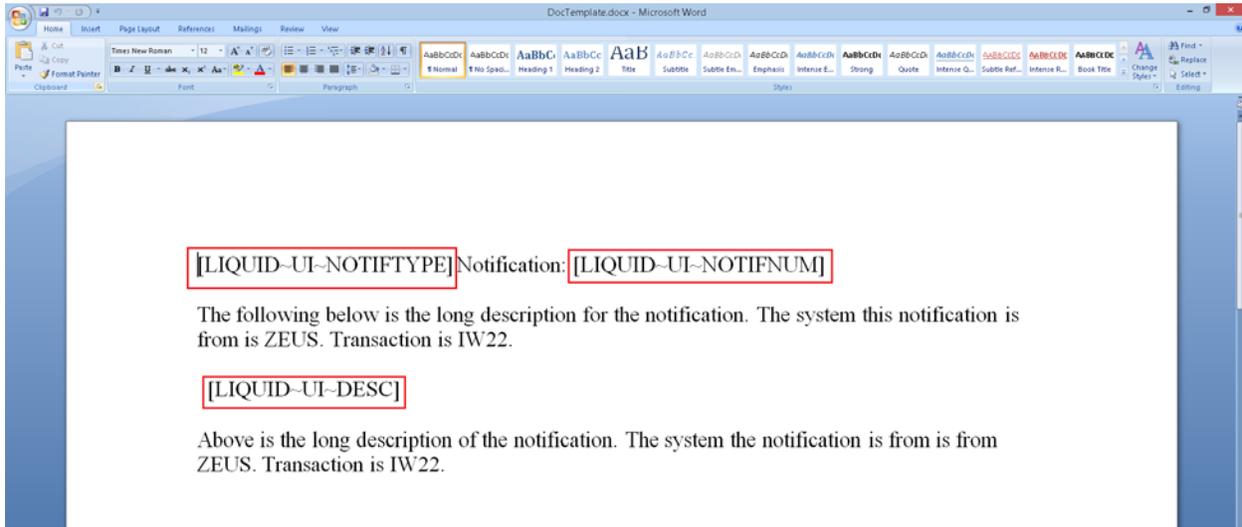
Enter in a notification with some long text, in this case "10004928".



Click the "Create Word Document" pushbutton on the toolbar.



A process will run that updates a Word document, filling in pieces of information in specific areas marked by tags.



# Liquid UI Code [Script]

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C:\GuiXT\Tutorials\Forum\SAPLIQSO.E7200.sjs - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
eession.sjs SAPLIQSO.E7200.sjs
1 // Define an array of tags for the Notification screen
2 NotificationTags = ["[LIQUID-UI-DESC]", "[LIQUID-UI-NOTIFNUM]", "[LIQUID-UI-NOTIFTYPE]"];
3
4 // Pushbutton that will trigger our function
5 pushbutton( [TOOLBAR], "Update Word Template", "?", ("process":updateDoc, "using":{"tags":NotificationTags}));
6
7 // This function will create a Word document
8 function updateDoc(param){
9
10     var tagsArr = param.tags;
11
12     // Refer to https://msdn.microsoft.com/en-us/library/office/ff193977.aspx for which parameters Execute takes
13
14     // WdFindWrap constants
15     wdFindAsk = 2;
16     wdFindContinue = 1;
17     wdFindStop = 0;
18
19     // WdReplace constants
20     wdReplaceNone = 0;
21     wdReplaceOne = 1;
22     wdReplaceAll = 2;
23
24     onscreen 'SAPLIQSO.7200'
25     // Create MS Object for Word
26     var wordObj = new ActiveXObject('word.application');
27     // Do not show the Microsoft Word window
28     wordObj.Visible = false;
29     doc = wordObj.Documents.Open("C:\\GuiXT\\Tutorials\\Forum\\DocTemplate.docx");
30
31     for(i=0; i<tagsArr.length; i++){
32         switch(tagsArr[i]){
33             case "[LIQUID-UI-DESC]":
34                 copytext({"fromscreen":"X[TEXT]", "totext":"z_text"});
35                 // Call a function to handle the word update
36                 updateTemplate(z_text, tagsArr[i], wordObj);
37                 break;
38             case "[LIQUID-UI-NOTIFNUM]":
39                 set("[V[_notifNum]", "zF[Notification]");
40                 // Call a function to handle the word update
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```
C:\GuiXT\Tutorials\Forum\SAPLIQSO.E7200.sjs - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
eession.sjs SAPLIQSO.E7200.sjs
38     case "[LIQUID-UI-NOTIFNUM]":
39         set("[V[_notifNum]", "zF[Notification]");
40         // Call a function to handle the word update
41         updateTemplate(z_notifNum, tagsArr[i], wordObj);
42         break;
43     case "[LIQUID-UI-NOTIFTYPE]":
44         set("[V[_notifType]", "zF[RECOO-QMART]"); // Techname for Notification Type
45         // Call a function to handle the word update
46         updateTemplate(z_notifType, tagsArr[i], wordObj);
47         break;
48     }
49
50
51 // Save the document as a new file, therefore not getting rid of the Template
52 doc.SaveAs("C:\\GuiXT\\Tutorials\\Forum\\"+z_notifNum+"_"+user+"_Doc.docx");
53 wordObj.Quit();
54
55 enter("?");
56
57
58 // Recursive function to split the string and then update the Word Document
59 function updateTemplate(str, tag, wordObj){
60 // Base case is when string's length is less than 256
61 if(str.length < 256){
62 // Update the word document and save
63 findObj = wordObj.Selection.Find;
64 findObj.Execute(tag, true, false, false, false, false, true, wdFindContinue, false, str, wdReplaceOne, false, false, false, false);
65 }else{
66 // Split the string and add the tag
67 str1 = str.substring(0, 254-tag.length) + tag;
68 str2 = str.substring(254-tag.length, str.length);
69 // Update the word document
70 findObj = wordObj.Selection.Find;
71 findObj.Execute(tag, true, false, false, false, false, true, wdFindContinue, false, str1, wdReplaceOne, false, false, false, false);
72 // Call this function again with the remaining characters in the string
73 updateTemplate(str2, tag, wordObj);
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```
C:\GuiXT\Tutorials\Forum\session.sjs - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
eession.sjs SAPLIQSO.E7200.sjs
1 // esession.sjs
2 load("wsoffice");
```