

# Liquid UI: User Decimal Format Validation

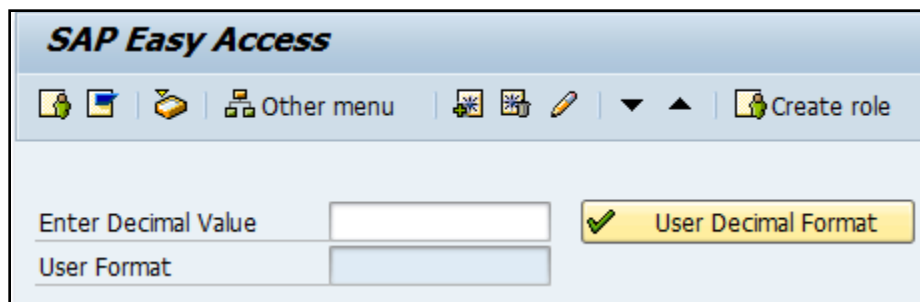
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## Purpose

Validate the user entry decimal format by checking with SAP decimal format.

## User Interface

Log into SAP and on the SAP Easy Access Screen enter the decimal value and click on 'User Decimal Format'.



The screenshot shows the SAP Easy Access interface. At the top, there is a header bar with the text "SAP Easy Access". Below the header, there is a toolbar with several icons: a person icon, a document icon, a folder icon, a menu icon labeled "Other menu", a plus icon, a minus icon, a pencil icon, a down arrow icon, an up arrow icon, and a person icon labeled "Create role". Below the toolbar, there is a form with two input fields. The first field is labeled "Enter Decimal Value" and the second field is labeled "User Format". To the right of these fields is a yellow button with a green checkmark icon and the text "User Decimal Format".

## Liquid UI Code [Script]

### User Interface file -

```
1 // Read User Decimal Format Defaults
2 if(!READDEFAULTS){
3   call('BAPI_USER_GET_DETAIL',{'IN.USERNAME':'&V[ user]', 'OUT.DEFAULTS':'userDefaults'});
4   USERDECIMALFORMAT = userDefaults.substring(28,29);
5   READDEFAULTS = true;
6 }
7
8 // Remove blank spaces
9 String.prototype.trim=function(){return this.replace(/^\s+|\s+$/g,'');}
10
11 // Function to check if the string value is blank
12 function isBlank(jvar){
13   if(typeof jvar == 'string') {
14     jvar = jvar.trim();
15   }
16   if(typeof jvar == 'undefined') {
17     jvar = '';
18   }
19   return(jvar == 'undefined' || jvar == undefined || jvar == null || jvar == "" || jvar == void 0);
20 }
21
22 // Function converts the user decimal format in SAP to a general decimal format (xxxxxx.xx)
23 function decimalNotationFormat(numberFormat,number,nDec){
24   var str = "";
25
26   if(nDec == void 0) // Default for number of decimal places
27     nDec = 2;
28
29   switch(numberFormat)
30   {
31     case 'X':
32       {
33         str = number.replace(/\./g, ''); // Replace . with nothing
34       }
35       break;
36     case 'Y':
37       {
38         str = number.replace(/\s+/g, ''); // Remove Blank Spaces
39         str = str.replace(/\./g, '.'); // Replace . with .
40       }
41       break;
42     default:
43       {
44         str = number.replace(/\./g, ''); // Replace . with nothing
45         str = str.replace(/\./g, '.'); // Replace . with .
46       }
47       break;
48   }
49   return parseFloat(str.trim()).toFixed(3);
50 }
```

```
52 // Function converts the general decimal format to user decimal format in SAP
53 function userSAPDecimalFormat(nStr,nSeparator){
54   var str = nStr.split('.');
55   var offset = str[0].length % 3;
56
57   if(nSeparator == ' ')
58     str[0] = str[0].substring(0, offset) + str[0].substring(offset).replace(/\{0-9\}\{3\}/g, ".$1");
59   if(nSeparator == 'X')
60     str[0] = str[0].substring(0, offset) + str[0].substring(offset).replace(/\{0-9\}\{3\}/g, ".$1");
61   if(nSeparator == 'Y')
62     str[0] = str[0].substring(0, offset) + str[0].substring(offset).replace(/\{0-9\}\{3\}/g, ".$1");
63
64   if(offset == 0)
65     str[0] = str[0].substring(1,str[0].length);
66
67   if(nSeparator == 'Y' || nSeparator == ' ') {
68     return str.join(',');
69   } else {
70     return str.join('.');
71   }
72 }
73
74 // Function to check and convert user entry for decimal format
75 function changeUserFormat(){
76   if(isBlank(z_val)){
77     return('E: Please enter value');
78   }
79   z_val = decimalNotationFormat(USERDECIMALFORMAT,z_val.toString(),3);
80   z_tmp = userSAPDecimalFormat(z_val,USERDECIMALFORMAT);
81   set('V[z_val_userformat]','&V[z_tmp]');
82 }
83
84 // User Interface
85 clearscreen();
86 inputfield([1,1], "Enter Decimal Value", [1,22], {"name":"z_val", "size":15});
87 inputfield([2,1], "User Format", [2,22], {"name":"z_val_userformat", "size":15, "readonly":true});
88 pushbutton([1,40], "@01@User Decimal Format", {"process":changeUserFormat});
89
90
```