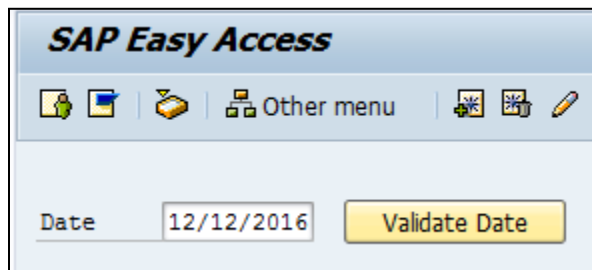# Liquid UI: Validate Date Format

Purpose

To check the validity of user entered date format by retrieving date format from Su3 transaction and comparing with user entered value.

User Interface

Log into SAP and on the SAP Easy Access Screen you will see the Liquid UI field. Enter the date and click on 'Validate Date'.

Liquid UI Code [Script]

User Interface file –

```
1
2    del('X[IMAGE_CONTAINER]');        // Delete AxtiveX Container on SAP Easy Access screen
3
4    // Purpose: Function is called to remove blank spaces
5    String.prototype.trim=function(){return this.replace(/^\s+|\s+$/g,'');}
6
7    // Purpose: Function is called to validate if the variable holds blank or null value
8    function isBlank(jvar){
9        if(typeof jvar == 'string') {
10            jvar = jvar.trim();
11        }
12        return(jvar == 'undefined' || jvar == null || jvar == "" || jvar == void 0);
13    }
14
15    // Purpose: Function is called to validate the date
16    function isValidDate(date,dformat){
17        switch(parseInt(dformat)){
18        case 1:
19            var matches = /^(\d{2})[-\.](\d{2})[-\.](\d{4})$/.exec(date);
20            if (matches == null)
21                return false;
22            else
23                return true;
24            break;
25        case 2:
26            var matches = /^(\d{2})[-\/](\d{2})[-\/](\d{4})$/.exec(date);
27            if (matches == null)
28                return false;
29            else
30                return true;
31            break;
32        case 3:
33            var matches = /^(\d{2})-(\d{2})-(\d{4})$/.exec(date);
34            if (matches == null)
35                return false;
36            else
37                return true;
38            break;
39        case 4:
40            var matches = /^(\d{4})[-\.](\d{2})[-\.](\d{2})$/.exec(date);
41            if (matches == null)
42                return false;
43            else
44                return true;
45            break;
46        case 5:
47            var matches = /^(\d{4})[-\/](\d{2})[-\/](\d{2})$/.exec(date);
48            if (matches == null)
49                return false;
50            else
51                return true;
```

```
   51            break;
   52        case 6:
   53            var matches = /^(\d{4})-(\d{2})-(\d{2})$/.exec(date);
   54            if (matches == null)
   55                return false;
   56            else
   57                return true;
   58            break;
   59        }
   60  }

   61
   62  // Retrieve Date Format and check the validity of user entered Date
   63  function checkDateFormat(){
   64      if(isBlank(z_date)){
   65          return('E: Enter Date');
   66      }
   67      onscreen 'SAPLSMTR_NAVIGATION.0100'
   68          enter('/nSU3');
   69
   70      onscreen 'SAPLSUU5.0100'
   71          enter('=DEFA');
   72
   73      onscreen 'SAPLSUU5.0100'
   74          set('V[USERDATEFORMAT]','&F[USDEFAULTS-DATFM]');   // Date Format
   75          USERDATEFORMAT = parseInt(USERDATEFORMAT.trim());
   76          switch(USERDATEFORMAT) {
   77              case 1: {set('V[USERDATEFORMATMSG]','DD.MM.YYYY');} break;
   78              case 2: {set('V[USERDATEFORMATMSG]','MM/DD/YYYY');} break;
   79              case 3: {set('V[USERDATEFORMATMSG]','MM-DD-YYYY');} break;
   80              case 4: {set('V[USERDATEFORMATMSG]','YYYY.MM.DD');} break;
   81              case 5: {set('V[USERDATEFORMATMSG]','YYYY/MM/DD');} break;
   82              case 6: {set('V[USERDATEFORMATMSG]','YYYY-MM-DD');} break;
   83              default: {set('V[USERDATEFORMATMSG]','*INVALID*');} break;
   84          }
   85          enter('/N');
   86
   87      onscreen 'SAPLSMTR_NAVIGATION.0100'
   88          validDate = isValidDate(z_date,USERDATEFORMAT);
   89          if(!validDate){
   90              message("E: Enter Date in " + USERDATEFORMATMSG +" Format");
   91          } else{
   92              message ("S: Valid Date");
   93          }
   94          enter('?');
   95
   96      FUNC_END:;
   97  }

   98
   99  // User Interface
  100  inputfield([1,1], "Date", [1,10], {"name":"z_date", "size":10});
  101  pushbutton([1,23], "Validate Date", '?', {"process":checkDateFormat, "size":[1,15]});
```