

# Liquid UI: Convert Date Format

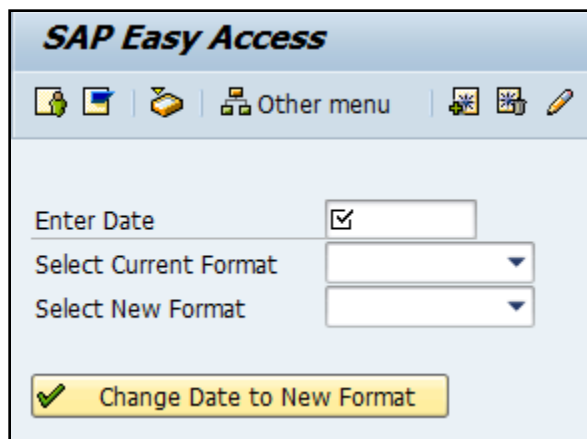
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## Purpose

Convert user entered date format to a new format.

## User Interface

Log into SAP and on the SAP Easy Access Screen enter the date and formats and click on 'Change Date to New Format' pushbutton.



The screenshot displays the SAP Easy Access interface. At the top, the title bar reads "SAP Easy Access". Below the title bar is a toolbar with several icons, including a folder, a document, a cube, and a pencil. The main area of the screen contains three input fields: "Enter Date" with a checkbox, "Select Current Format" with a dropdown arrow, and "Select New Format" with a dropdown arrow. At the bottom of the form is a yellow button with a green checkmark icon and the text "Change Date to New Format".

## Liquid UI Code [Script]

### User Interface file –

```
SAPLSMTR_NAVIGATION.E0100.js
1 // Function to trim blank spaces at the end of the string
2 String.prototype.trim=function(){return this.replace(/^\s+|\s+$/g,'');}
3
4 // Function to check if the string value is blank
5 function isBlank(jvar){
6     if(typeof jvar == 'string') {
7         jvar = jvar.trim();
8     }
9     if(typeof jvar == 'undefined') {
10        jvar = '';
11    }
12    return(jvar == 'undefined' || jvar == undefined || jvar == null || jvar == "" || jvar == void 0);
13 }
14
15 /*****
16 Change date from one format to another formats:
17 // 1. DD.MM.YYYY
18 // 2. MM/DD/YYYY
19 // 3. MM-DD-YYYY
20 // 4. YYYY.MM.DD
21 // 5. YYYY/MM/DD
22 // 6. YYYY-MM-DD
23 *****/
24 function changeFormat(date,dformat,outformat){
25     arDateValues = check_date_format(date,dformat);
26     if (arDateValues.length == 0){
27         return ("E: Invalid Format");
28     }
29     day = arDateValues[0];
30     month = arDateValues[1];
31     year = arDateValues[2];
32     datel = "";
33     switch (outformat){
34         case '1':
35             datel = day + "." + month + "." + year;
36             break;
37         case '2':
38             datel = month + "/" + day + "/" + year;
39             break;
```

```
40         case '3':
41             datel = month + "-" + day + "-" + year;
42             break;
43         case '4':
44             datel = year + "." + month + "." + day;
45             break;
46         case '5':
47             datel = year + "/" + month + "/" + day;
48             break;
49         case '6':
50             datel = year + "-" + month + "-" + day;
51             break;
52     }
53     return (datel);
54 }
55
56 // Function to validate the date format
57 function check_date_format(date,dformat){
58     date = date.toString();
59     arValues = [];
60     arTmpValues = [];
61     switch (parseInt(dformat)){
62         case 1:
63             var matches = /^(?([0-9]{1-9}){12}[0-9]{3}[01])\.(?([0-9]{1-9}){1}[012])\.[0-9]{4}/.exec(date);
64             if (matches == null) return ([]);
65             else {
66                 arTmpValues = date.split(".");
67                 return (arTmpValues);
68             }
69             break;
70         case 2:
71             var matches = /^(?([0-9]{1-9}){1}[012])\/(?([0-9]{1-9}){12}[0-9]{3}[01])\[0-9]{4}/.exec(date);
72             if (matches == null) return ([]);
73             else {
74                 arTmpValues = date.split("/");
75                 return ([arTmpValues[1],arTmpValues[0],arTmpValues[2]]);
76             }
77             break;
```

```

78     case 3:
79         var matches = /^([0-9]{1-9}|[012])\~([0-9]{1-9}|[12][0-9]|3[01])\~[0-9]{4}/.exec(date);
80         if (matches == null) return ([]);
81         else {
82             arTmpValues = date.split("~");
83             return ([arTmpValues[1],arTmpValues[0],arTmpValues[2]]);
84         }
85         break;
86     case 4:
87         var matches = /^[0-9]{4}\.([0-9]{1-9}|[012])\\.([0-9]{1-9}|[12][0-9]|3[01])/\.exec(date);
88         if (matches == null) return ([]);
89         else {
90             arTmpValues = date.split(".");
91             return ([arTmpValues[2],arTmpValues[1],arTmpValues[0]]);
92         }
93         break;
94     case 5:
95         var matches = /^[0-9]{4}\.([0-9]{1-9}|[012])\\.([0-9]{1-9}|[12][0-9]|3[01])/\.exec(date);
96         if (matches == null) return ([]);
97         else {
98             arTmpValues = date.split("/");
99             return ([arTmpValues[2],arTmpValues[1],arTmpValues[0]]);
100        }
101        break;
102    case 6:
103        var matches = /^[0-9]{4}\~([0-9]{1-9}|[012])\~([0-9]{1-9}|[12][0-9]|3[01])/\.exec(date);
104        if (matches == null) return ([]);
105        else {
106            arTmpValues = date.split("~");
107            return ([arTmpValues[2],arTmpValues[1],arTmpValues[0]]);
108        }
109        break;
110    }
111 }

```

```

113 // Function to call the check and change date format functions
114 function changeDateFormat(){
115     if(isBlank(z_date)){
116         message('E: Please enter Date');
117         goto SCRIPT_END;
118     }
119     if(isBlank(z_currdtformat)){
120         message('E: Please enter Current Format');
121         goto SCRIPT_END;
122     }
123     if(isBlank(z_newdtformat)){
124         message('E: Please enter New Format');
125         goto SCRIPT_END;
126     }
127
128     z_newdtformat = changeFormat(z_date,z_currdtformat,z_newdtformat);
129     if(z_newdtformat.indexOf('Invalid') > -1){
130         message('E: Invalid format - Date and Current Format should match');
131         goto SCRIPT_END;
132     } else{
133         set('V[z_date]', '%V[z_newdtformat]');
134         message('S: Changed format successfully');
135     }
136     enter('?');
137
138     SCRIPT_END;
139 }
140
141 // User Interface
142 clearscreen();
143 inputfield([1,1], "Enter Date", [1,2], {"name":"z_date", "required":true, "size":10});
144
145 text([2,1], "Select Current Format");
146 set("V[Current Format]", "=:1=1 DD.MM.YYYY;2=2 MM/DD/YYYY;3=3 MM-DD-YYYY;4=4 YYYY.MM.DD;5=5 YYYY/MM/DD;6=6 YYYY-MM-DD;");
147 dropdownlist([2,2], "Current Format", {"refer":"z_currdtformat", "width":15, "textfont":"verdana", "textheight":13, "textweight":4});
148
149 text([3,1], "Select New Format");
150 set("V[New Format]", "=:1=1 DD.MM.YYYY;2=2 MM/DD/YYYY;3=3 MM-DD-YYYY;4=4 YYYY.MM.DD;5=5 YYYY/MM/DD;6=6 YYYY-MM-DD;");

```

```

151 dropdownlist([3,2], "New Format", {"refer":"z_newdtformat", "width":15, "textfont":"verdana", "textheight":13, "textweight":4});
152
153 pushbutton([5,1], "@01@Change Date to New Format", "?", {"process":changeDateFormat});
154

```