

TYPO3 time zone set to: Europe/Vienna (UTC+2 currently)

Input	v7			v8			
	DB content	FE hidden field	Note	DB content	FE hidden field (after manual input)	FE hidden field (after form load)	Note
2017-06-07 00:10:20							
Time Eval	620	620	Value is seconds	1496693420	00:10:20	1496693420	WRONG value in DB; DB content different to v7; FE field content different before/after load
Date Eval	1496786400	1496793600	DB content in UTC -2h	1496786400	2017-06-07T00:00:00Z	2017-06-07T00:00:00+00:00	FE field interprets input as UTC -> wrong
Date Time Eval	1496787000	1496794200	DB content in UTC -2h	1496787000	2017-06-07T00:10:00Z	2017-06-07T00:10:00+00:00	FE field interprets input as UTC -> wrong
Date Native	2017-06-07	1496793600		2017-06-07	2017-06-07T00:00:00Z	2017-06-07T02:00:00+02:00	FE field interprets input as UTC -> wrong; after load value is in local TZ
Date Time Native	2017-06-07 00:10:00	1496794200		2017-06-07 00:10:00	2017-06-07T00:10:00Z	2017-06-07T02:10:00+02:00	FE field interprets input as UTC -> wrong; after load value is in local TZ
1960-06-07 13:14:15							
Time Eval	47655	47655	Value is seconds	1496740455	13:14:15	1496740455	WRONG value in DB; DB content different to v7; FE field content different before/after load
Date Eval	-301971600	-301968000	DB content -1h	-301971600	1960-06-07T00:00:00Z	1960-06-07T00:00:00+00:00	FE field interprets input as UTC -> wrong
Date Time Eval	-301923960	-301920360	DB content -1h	-301923960	1960-06-07T13:14:00Z	1960-06-07T13:14:00+00:00	FE field interprets input as UTC -> wrong
Date Native	1960-06-07	-301968000	DB content is local time	1960-06-07	1960-06-07T00:00:00Z	1960-06-07T01:00:00+01:00	FE field interprets input as UTC -> wrong; after load value is in local TZ
Date Time Native	1960-06-07 13:14:00	-301920360	DB content is local time	1960-06-07 13:14:00	1960-06-07T13:14:00Z	1960-06-07T14:14:00+01:00	FE field interprets input as UTC -> wrong; after load value is in local TZ

Timestamp equivalences in UTC:	
1496786400	2017-06-06 22:00:00
1496787000	2017-06-06 22:10:00
1496793600	2017-06-07 00:00:00
1496794200	2017-06-07 00:10:00
-301971600	1960-06-06 23:00:00
-301923960	1960-06-07 12:14:00
-301968000	1960-06-07 00:00:00
-301920360	1960-06-07 13:14:00
1496693420	2017-06-05 20:10:20
1496740455	2017-06-06 09:14:15

The goals
DB content for v7 and v8 must be the same
The FormEngine hidden field must contain the same value whether it is filled by JS or by PHP
FormEngine JS must be TZ aware, hence sending a correct ISO value to the server