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Subject: Jsonize() Date and Time serialization [patch]

Posted by [zsolt](#) on Fri, 11 Jun 2021 17:41:58 GMT

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I'm working on a web service and my problem was, that JavaScript handles date and time in ISO format, but U++ Jsonize() in special ways.

I attached a minimal HTML file to demonstrate, how JavaScript serializes Date and DateTime and U++ should do the same if we want to be compatible.

My HTML file shows a JSON output like this:

```
{
  "my_date": "2021-06-08",
  "my_datetime": "2021-06-15T19:25"
}
```

Jsonize() outputs dates like this:

```
{
  "my_date": "20210608",
  "my_datetime": "20210615T19:25"
}
```

Is it possible to fix Jsonize()?

I propose something like this:

```
@@ -328,7 +328,7 @@ template<> void Jsonize(JsonIO& io, Date& var)
    return;
  }
  if(IsString(v)) {
-   String text = v;
+   String text = Filter(v.ToString(), CharFilterDigit);
    if(text.GetCount() > 6) {
      Date d;
      d.year = ScanInt(text.Left(4));
@@ -346,7 +346,7 @@ template<> void Jsonize(JsonIO& io, Date& var)
    if(IsNull(var))
      io.Set(Null);
    else
-   io.Set(Format("%04d%02d%02d", var.year, var.month, var.day));
+   io.Set(Format("%04d-%02d-%02d", var.year, var.month, var.day));
  }
}
```

```
template<> void Jsonize(JsonIO& io, Time& var)
@@ -358,15 +358,15 @@ template<> void Jsonize(JsonIO& io, Time& var)
    return;
  }
}
```

```

if(IsString(v)) {
- String text = v;
- if(text.GetCount() > 15) {
+ String text = Filter(v.ToString(), CharFilterDigit);
+ if(text.GetCount() > 10) { //seconds may be missing
    Time tm;
    tm.year = ScanInt(text.Left(4));
    tm.month = ScanInt(text.Mid(4, 2));
    tm.day = ScanInt(text.Mid(6, 2));
- tm.hour = ScanInt(text.Mid(9, 2));
- tm.minute = ScanInt(text.Mid(12, 2));
- tm.second = ScanInt(text.Mid(15));
+ tm.hour = ScanInt(text.Mid(8, 2));
+ tm.minute = ScanInt(text.Mid(10, 2));
+ tm.second = ScanInt(text.Mid(12, 2));
    if(tm.IsValid()) {
        var = tm;
        return;
@@ -379,7 +379,7 @@ template<> void Jsonize(JsonIO& io, Time& var)
    if(IsNull(var))
        io.Set(Null);
    else
- io.Set(Format("%04d%02d%02d`T%02d:%02d:%02d",
+ io.Set(Format("%04d-%02d-%02d`T%02d:%02d:%02d",
                var.year, var.month, var.day, var.hour, var.minute, var.second));
}

```

## File Attachments

1) [upp\\_forum\\_demo.html](#), downloaded 247 times

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