Subject: [FEATURE REQUEST] Time to UTC ISO 8601 and UTC ISO 8601 to Time Posted by captainc on Thu, 07 Feb 2008 14:39:49 GMT View Forum Message <> Reply to Message

UTC time formatted by ISO 8601 standard is very common now and is the default DateTime format for all XML documents. It would be great to have simple functions that can turn a Time object into a UTC ISO 8601 formatted String and also to create a Time object from a UTC ISO 8601 String.

Creating a UTC String is as simple as: String utc = FormatTime(t, "YYYY-DD-MMThh:mm:ss"); But converting a UTC String to Time is a bit more difficult. I have tried to use the StrToDate(time_object, utc_string) function, and it does parse the date correctly, but I can only receive a Date object from this, not the time details as well.

StrToTime would be great, especially with UTC ISO 8601 support.

Thanks.

Subject: Re: [FEATURE REQUEST] Time to UTC ISO 8601 and UTC ISO 8601 to Time Posted by mirek on Thu, 07 Feb 2008 21:21:29 GMT View Forum Message <> Reply to Message

captainc wrote on Thu, 07 February 2008 09:39UTC time formatted by ISO 8601 standard is very common now and is the default DateTime format for all XML documents. It would be great to have simple functions that can turn a Time object into a UTC ISO 8601 formatted String and also to create a Time object from a UTC ISO 8601 String.

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StrToTime would be great, especially with UTC ISO 8601 support.

Thanks.

I would be glad to accept contributed implementation

Mirek

Subject: Re: [FEATURE REQUEST] Time to UTC ISO 8601 and UTC ISO 8601 to

Time Posted by koldo on Tue, 23 Sep 2008 11:52:26 GMT View Forum Message <> Reply to Message

Hello luzr

Please check if it could serve.

```
Best regards
Koldo
const char *StrToTime(Time& d, const char *s)
{
s = StrToDate(d, s);
d.hour = 0;
d.minute = 0;
d.second = 0;
const char *fmt = "hms";
while(*fmt) {
 while(*s && !IsDigit(*s))
 s++;
 int n;
 if(IsDigit(*s)) {
 char *q;
 n = strtoul(s, \&q, 10);
 s = q;
 } else
 break;
 switch(*fmt) {
 case 'h':
 if(n < 0 || n > 23)
  return NULL;
 d.hour = n;
 break;
 case 'm':
 if(n < 0 || n > 59)
  return NULL;
 d.minute = n;
 break;
 case 's':
 if(n < 0 || n > 59)
  return NULL;
 d.second = n;
 break;
 default:
```

```
NEVER();

}

fmt++;

}

return d.IsValid() ? s : NULL;

}
```

Subject: Re: [FEATURE REQUEST] Time to UTC ISO 8601 and UTC ISO 8601 to Time Posted by mirek on Tue, 23 Sep 2008 15:37:56 GMT View Forum Message <> Reply to Message

Maybe we should add "UTC" to the name?

Mirek

Subject: Re: [FEATURE REQUEST] Time to UTC ISO 8601 and UTC ISO 8601 to Time Posted by koldo on Tue, 23 Sep 2008 20:04:03 GMT View Forum Message <> Reply to Message

Well...

I do not have any idea about that but reading in wikipedia they say:

"So a time might appear as either "134730" in the basic format or "13:47:30" in the extended format."

The function I have inclosed runs well with "13:47:30", "13.47.30" and "13/47/30" for example, but not with "134730".

So, if you prefer this behaviour I will change the function.

Best regards Koldo

Subject: Re: [FEATURE REQUEST] Time to UTC ISO 8601 and UTC ISO 8601 to Time Posted by mirek on Wed, 24 Sep 2008 20:18:09 GMT

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Oh, I guess there must be some misunderstanding...

All that I was proposing was to somehow quote 'UTC' in the function name.

One reason is that "normal" Format (Scan) should follow localization settings (eventually..).

Well, now seeing the code, I guess that call to StrToDate is not a good idea in this respect too (StrToDate respects localization).

IMO, we need both - StrToTime and UTCToTime + FormatUTC, what do you think?

Mirek

Subject: Re: [FEATURE REQUEST] Time to UTC ISO 8601 and UTC ISO 8601 to Time Posted by koldo on Fri, 26 Sep 2008 10:04:26 GMT View Forum Message <> Reply to Message

Hello Luzr

Simpler than that. Tell me function names, what you want them to do, give me some samples and I will do them.

Best regards Koldo

Subject: Re: [FEATURE REQUEST] Time to UTC ISO 8601 and UTC ISO 8601 to Time Posted by captainc on Thu, 02 Oct 2008 19:32:10 GMT View Forum Message <> Reply to Message

Simple function I used in my program:

```
Time UTCStrToTime(String utc_str){
//utc example: 2006-01-04T21:59:11
int year = StrInt(utc_str.Left(4));
int month = StrInt(utc_str.Mid(5,2));
int day = StrInt(utc_str.Mid(8,2));
int hour = StrInt(utc_str.Mid(11,2));
int minute = StrInt(utc_str.Mid(14,2));
int second = StrInt(utc_str.Mid(17,2));
return Time(year, month, day, hour, minute, second);
}
```

Subject: Re: [FEATURE REQUEST] Time to UTC ISO 8601 and UTC ISO 8601 to

Hey Luzr

Do you imagine?. You have more than one option to choose!

Every day we are more people using and supporting Upp.

Koldo

Subject: Re: [FEATURE REQUEST] Time to UTC ISO 8601 and UTC ISO 8601 to Time Posted by captainc on Sat, 04 Oct 2008 20:53:17 GMT View Forum Message <> Reply to Message

Yeah, but I didn't check the length... so that needs to be fixed.

Page 5 of 5 ---- Generated from U++ Forum