
Question

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Given a Start Time, Time Zone and Duration (in Minutes): How to calculate End Time

Newbie stuck again, hoping this won't be as bad as I'm thinking. In my DTL Editor I've got

```
Source.Appointments.(k1).Date = 07/05/2022
```

```
Source.Appointments.(k1).StartTime = 14:30
```

```
Source.Appointments.(k1).Duration = 30
```

Looking to Formation a target StartTime and End Time based on the above values (and known time Zone) so they are formatted in this format 2022-07-05T02:30:00Z005:00" as the end goal right now I've got it to where I can get this for a start time as I really want to figure out the duration part before I figure out the format above: 07/05/2022 14:30

In the Data Transform Builder I've done two sets to get StartTime where I want it

```
source.Appointments.(k1).Date_ "source.Appointments.(k1).StartTime
```

```
and then a second set using ..ConvertDateTime(target.Appointments.(k1).StartTime,"%k(-5) %#D %R","%q")
```

The screenshot shows the InterSystems IRIS Modeler interface. On the left, a 'source' object 'CESVCPKG.Model.Athena.AthenaAppointment' is mapped to a 'target' object 'VICESVCPKG.Model.IntSvc.IntSvcResponse'. The 'Appointments()' collection in the source is mapped to the 'Appointments()' collection in the target. Individual properties are mapped: AppointmentID to ExternalAlias, AppointmentType to StartTime, AppointmentTypeID to EndTime, Date to Provider, DepartmentID to Location, Duration to a calculated property, PatientAppointmentType to a calculated property, LocalProviderID to a calculated property, ProviderID to a calculated property, StartTime to a calculated property, Reason() to a calculated property, and RenderingProviderID to a calculated property.

The 'Actions' panel at the bottom shows a list of actions. The selected action is 'set' with the following details:

Action	Condition	Property	Value	Key / Transform
set		target.Appointments.(k1)...	appointment.id	
set		target.Appointments.(k1)...	source.Appointments.(k1)...	""
set		target.Appointments.(k1)...	source.Appointments.(k1)...	""
set		target.Appointments.(k1)...	..ConvertDateTime(target....	""
set		target.Appointments.(k1)...	..ConvertDateTime(..Conve...	""
set		target.Appointments.(k1)...	source.Appointments.(k1)...	""
set		target.Appointments.(k1)...	source.Appointments.(k1)...	""

The 'Details for the selected action' panel on the right shows the 'assign' action. The 'Property' is 'target.Appointments.(k1).StartTime'. The 'Value' is '..ConvertDateTime(target.Appointments.(k1).StartTime, "%q", "%q(3)") + ..ConvertDateTime(source.Appointments.(k1).Duration, "%M", "%q(3)", "%q(3)", "%q")'.

The next call is trying to do a conversion on both the duration and the start time and add them together to get an output but I feel like I'm heading in the wrong direction

```
..ConvertDateTime(..ConvertDateTime(target.Appointments.(k1).StartTime,"%q","%q(3)") + ..ConvertDateTime(source.Appointments.(k1).Duration,"%M","%q(3)","%q(3)","%q")
```

We are trying to be as low code as possible so trying to do this all via GUI and was wondering if you all think this is even possible. Thanks in advance, your assistance is much appreciated.

[#InterSystems IRIS for Health](#)

Product version: IRIS 2022.1

\$ZV: IRIS for UNIX (Ubuntu Server LTS for x86-64 Containers) 2021.2 (Build 651U) Mon Jan 31 2022 18:07:01 EST

Source

URL: <https://community.intersystems.com/post/given-start-time-time-zone-and-duration-minutes-how-calculate-end-time>