

Using TZ offsets with DeepSight Extractor

All events within the DeepSight Extractor database are maintained in Greenwich Mean Time or GMT. Extractor must convert the sensor time to GMT. Or Extractor must resolve time differences between sensors in different time zones; and then convert timestamps to GMT before uploading the sensor data.

There are 3 methods to accomplish this within Extractor.

In cases where all of an organizations' sensors are within a single time zone, the solution is straight forward: time on the sensors is either kept in GMT or is system local time. Extractor either submits events directly when kept as GMT or adjusts local time to GMT before uploading. However, when the organizations' enterprise spans multiple time zones; and sensor uploads are managed by a single Extractor, the time zone offset from GMT must be established for Extractor to perform the time resolution.

Suppose your organizations' sensors were in Paris, France; New York, New York; and Calgary, Alberta, Canada. Here are the TZ offset values for the sensors:

Location	TZ Offset
Paris, France	+0100
New York, New York	-0500
Calgary, Alberta, Canada	-0700

Using these TZ values, Extractor can calculate GMT for each sensor and submit the data.

Notice a "+" sign precedes the offset for Paris while a "-" sign precedes the offset for New York and Calgary. This indicates on which side of the meridian the sensor is located; sensors East of the meridian add time to GMT while sensors to the West subtract time.

TZ Offset	Location
-1100	Niue
-1000	Hawaii; Dutch Harbor, Aleutian Islands, Alaska
-0900	Anchorage, Alaska
-0800	Los Angeles
-0700	Calgary, Alberta, Canada
-0600	Chicago, Illinois; Dallas, Texas
-0500	NYC
-0400	Halifax; Venezuela
-0300	Fortaleza, Brazil; Nuuk, Greenland
-0200	Azores
-0100	Reykjavik, Iceland
0000	GMT – London
+0100	Paris, France
+0200	Athens, Greece
+0300	Moscow, Russia; Saudi Arabia
+0400	Iraq; Iran*
+0500	Sri Lanka; India*
+0600	Burma
+0700	Cambodia; Thailand; Vietnam
+0800	Indonesia; Perth, Australia
+0900	Adelaide, Australia

+1000	Sydney, Australia
+1100	New Caledonia
+1200	New Zealand
	NOTE: The TZ offset also provides for unusual time offsets such as the countries of India or Iran which have an additional 0030 minute offset.

The chart above is intended as a general guide to time offsets relative to your position on the globe. Please verify your time zone information using any of the resources below:

http://aa.usno.navy.mil/faq/docs/world_tzones.html

<http://toi.iriti.cnr.it/uk/timezone.html#TIMEZONE>