

# IHE Change Proposal

## Tracking information

IHE Domain:	IT Infrastructure
Change Proposal ID:	CP-ITI-1329
Change Proposal Status:	Submitted
Date of last update:	4 February 2024
Person assigned:	steven.nichols@gehealthcare.com

## Change Proposal Summary Information

Add named DICOM option to CT	
Submitter's Name(s) and email address(es):	steven.nichols@gehealthcare.com
Submission Date:	4 February 2024
Profile(s) affected:	Consistent Time (CT)
Actor(s) affected:	Time Client
IHE Technical Framework or Supplement modified:	IT Infrastructure
Volume(s) and Section(s) affected:	Vol 1
Detailed Rationale for Change: Accurate interpretation of time in DICOM objects is important for cross-enterprise exchange, cloud deployments, and multi-region clinical workflows. Although DICOM defines the Timezone Offset From UTC attribute (0008,0201), its optional status has led to inconsistent use and persistent ambiguity when objects are exchanged across time zones. CP-RAD-565 adds content requirements in Radiology TF Volume 3 that map to the named option in this Change Proposal. Adding a named option to the IHE ITI Consistent Time (CT) Profile provides a focused forcing function without changing existing transactions or message semantics. Implementations claiming this option are required to populate the Timezone Offset From UTC attribute in all DICOM instances using the SOP Common Module. This approach avoids defining a Radiology Domain-specific time profile or adding timezone requirements across multiple RAD, CARD, PALM, RO, EYECARE and DENT profiles. Given its broad adoption and grouping with multiple profiles, the CT Profile is a natural integration point. The option aligns with corresponding Radiology Technical Framework changes, enabling consistent, timezone-aware DICOM time representation while preserving backward compatibility.	

## Proposed Change(s)

Proposed changes should be introduced with “editors instructions” in a “box” such as:

*Modify ITI TF-1:7.2 as follows. Update option table for consistency with other profiles.*

### 7.2 CT Actor Options

Options that may be selected for this integration profile are listed in the Table 7.2-1 along with the actors to which they apply.

**Table 7.2-1: Consistent Time - Actors and Options**

Actor	Options	Volume and Section
Time Server	Secured NTP	ITI TF-2: 3.1.4-1

Actor	Options	Volume and Section
Time Client	<u>SNTP, Secured NTP</u>	<u>ITI TF-2: 3.1.4-1</u>
	<u>Secured NTP</u>	<u>ITI TF-2: 3.1.4-1</u>
	<u>DICOM Timezone Option</u>	<u>RAD TF-3: 5.2</u>

*Add Option description subsections to ITI TF-1:7.2 as follows.*

### **7.2.1 SNTP Option**

The SNTP Option makes use of the Simple Network Time Protocol (SNTP).

### **7.2.2 Secured NTP Option**

The Secured NTP Option provides cryptographic protection for time synchronization messages.

### **7.2.3 DICOM Timezone Option**

The DICOM Timezone Option defines requirements regarding the use of timezone information in DICOM instances. See RAD TF-3 Section 5.2.