

IEC TC57 WG10 Future Work - WG10 Future Work #3102

<https://iec61850.tissue-db.com/tissue/1744> Clarification of Start Times in StrTm.setCal

08/10/2021 05:07 AM - Henry Dawidczak

Status:	New	Start date:	08/10/2021
Priority:	Normal	Due date:	02/10/2022
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Standard(s):	IEC 61850-7-4
Source:	TissueDB	Needs More Information:	No
TF Unique ID:	4 # TissueDB	Assigned TF:	61850-7-4
WG10 Proposal:		Target edition:	Next
Discuss in Upcoming Meeting:	No		
Short Proposal:	Include in edition 3 - not very urgent		

Description

Part 7-4, page 481, clause K.2.4

Applying the standard's schedule definitions to practical use cases caused some discussion on how to interpret part 7-4.

IEC 61850-7-4 annex K.2.4 states: "In case, for whatever reason, the schedule cannot start at the time given by the occurrence of a start time setting, but afterwards, then the schedule will run sharply as if it has started at the time given by the start time setting. Said in other words, the schedule won't shift the scheduled values based on the real-time start."

German users group, VDE FNN Project Group Steuerbox, concluded that an enabled periodic schedule would run as if enabled with its most recent (periodic) start time, if it were still running from this start. Because it affects interoperability of the specified devices, we decided to discuss the issue with the community.

The attachment shows the issue with examples.

Proposal descriptions

Chapter K.2.4 of part 7-4 (2020) shall be amended:

A schedule assumes status 'running' from 'not ready', if the following conditions are true:

- 1) the schedule is well-formed (has starting times, output values etc.)
- 2) if a UTC Start time (setTm) is present, it lies in the past
- 3) if the schedule is cyclic, there exists a cyclic start time (last cyclic start Time from setCal, lcst), for which is $lcst \leq now \leq lcst + (SchdIntv * NumEntr)$.

History

#1 - 08/10/2021 05:10 AM - Henry Dawidczak

Additional change is proposed:

in Table K.1 row "not event driven" --> "periodic" change first sentence from "Once it has been enabled and integrity is OK, the schedule run periodically, starting at first occurrence of the Calendar time and repeats with every re-occurrence of the calendar time until it is disabled." to

"Once it has been enabled and integrity is OK, the schedule run periodically, starting at first occurrence of the Calendar time or after the Calendar time, when the periodic schedule meets the condition to run, and repeats with every re-occurrence of the calendar time until it is disabled."

#2 - 09/29/2021 04:03 AM - Carlos Rodriguez del Castillo

- Due date set to 02/10/2022

- TF Unique ID set
- Due date updated

#3 - 09/29/2021 04:04 AM - Carlos Rodriguez del Castillo

- ID set to 4

- Source set to TissueDB

- TF Unique ID set to 4 # TissueDB

#4 - 11/23/2021 08:35 AM - Carlos Rodriguez del Castillo

- Status changed from New to Resolved
- Short Proposal set to Include in edition 3 - not very urgent
- Standard(s) set to IEC 61850-7-4

#5 - 11/23/2021 08:46 AM - Carlos Rodriguez del Castillo

- Tracker changed from Improvement to WG10FutureWork
- Project changed from IEC 61850 User Feedback Task Force to IEC TC57 WG10 Future Work
- ID deleted (4)
- To discuss in WG10 deleted (No)

#6 - 05/09/2023 09:32 AM - Carlos Rodriguez del Castillo

- Needs More Information set to No

#7 - 05/09/2023 09:33 AM - Carlos Rodriguez del Castillo

- Discuss in Upcoming Meeting changed from No to Yes

#8 - 06/05/2023 01:58 AM - Carlos Rodriguez del Castillo

- Discuss in Upcoming Meeting changed from Yes to No

#9 - 06/21/2023 02:11 AM - Vladan Cvejic

- Tracker changed from WG10FutureWork to WG10 Future Work
- Status changed from Resolved to New
- Assigned TF None added

#10 - 10/26/2023 02:37 AM - Vladan Cvejic

- Target edition set to Not assigned

#11 - 02/08/2024 05:09 AM - Vladan Cvejic

- Target edition changed from Not assigned to Next
- Assigned TF 61850-7-4 added
- Assigned TF deleted (None)

Files

cyclic schedules tissue.pdf	133 KB	08/10/2021	Henry Dawidczak
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