

## Server - Issues #6483

### Need to be able to test 61850-7-420

07/25/2023 07:49 AM - Herbert Falk

<b>Status:</b> Resolved	<b>Due date:</b> 09/05/2023
<b>Priority:</b> Normal	
<b>Assignee:</b> Richard Schimmel	
<b>Category:</b>	
<b>Target version:</b>	
<b>Discuss in Upcoming Meeting:</b> No	<b>Updated Test Document:</b>
<b>Clause Reference:</b>	<b>Test Case ID:</b> sMdl14
<b>61850 Standard:</b>	<b>Closed Reason:</b> --Not Set--
<b>Triggering Tissue:</b>	<b>Triggering Tissue 2:</b>
<b>Final Decision:</b>	<b>Triggering Tissue 3:</b>
<b>Initial Test Document:</b> Ed2 TP2.0.6	
<b>Description</b>	
Received the following request/question for being able to test and certify 7-420:  As the E-mobility becomes more and more popular, when the charging system wants to connect with the Power Grid (to know when to reverse charging), it serves as an 61850 server. I want to ask the following questions, and thanks in advance~  1. I saw the standards IEC 61850-7-420 and IEC TR 61850-90-8 defines some additional LNs, if the model (cid) of an EVSE (Electric Vehicle Service Equipment, the entire charging system) or EVCC (Electric Vehicle Communication Controller, the module used in the charging system) conforms to the these standards (also original IEC 61850-7-4), can we perform IEC 61850 Ed2.0 Server Conformance Test for these products, just using the same TP (for example Server TP2.0.6)? 2. Does UCA already have released some certificates for this kind of products (sorry I didn't find a good way to search in the redmine system)?	
<b>Related issues:</b>	
Related to Server - Issues #6519: Need to be able to test 61850-7-420 (Ed2.1)	<b>Closed</b>

## History

### #1 - 07/25/2023 08:47 AM - IEC 61850 TPWG

- Tracker changed from Improvement to Issues
- Project changed from General Testing Issues to Server
- Due date set to 08/08/2023
- Status changed from New to In Progress
- Assignee set to Richard Schimmel
- Start date deleted (07/25/2023)
- Proposal descriptions updated
- Short Proposal deleted (Extend test procedure 2.0.6 to allow testing of 7-420.)
- Discuss in Upcoming Meeting set to No
- Closed Reason --Not Set-- added

Testing against the current TP is valid.

Test certificate could be extended to indicate model extensions including -7-420

DER equipment has been certified with -7-420, but no EV yet.

Richard to generate new certificate template and instructions.

### #2 - 07/25/2023 09:39 AM - Richard Schimmel

- File UCAiug Annex H Server Ed2 Certificate Template with 7-420.docx added
- Initial Test Document set to Ed2 TP2.0.6
- Test Case ID set to sMdl14

Attached the certificate template with optional 7-420 and instructions.  
 Test case sMdl14 already verifies non-substation namespaces like 7-410 and 7-420.

**#3 - 08/08/2023 06:49 AM - Thierry Dufaure**

Is there a reason for the scope of IEC61850 Edition 2?  
 According to IEC 61850-7-420:2021, the namespace of 7-420 includes 61850 Ed2.1 not Ed2.

**#4 - 08/08/2023 08:38 AM - IEC 61850 TPWG**

- Due date changed from 08/08/2023 to 08/22/2023

Testing to 61850 Ed2Amd1 is preferred, but Ed2 can be done with careful management of namespaces (Ed2 CDC only).

Richard to prepare a 2.1 certificate template.

Certificates to create a section listing NSDs validated in the DUT.

**#5 - 08/09/2023 04:59 AM - Richard Schimmel**

- File UCAiug Annex H Server Ed2 Certificate Template with 7-420 (August8).docx added

Ed2: removed 7-420 from the title and added name space definition in the first paragraph

**#6 - 08/22/2023 08:14 AM - Joel Greene**

- Due date changed from 08/22/2023 to 09/05/2023

Mails exchanged since last meeting have not been addressed.

**#7 - 09/05/2023 08:14 AM - IEC 61850 TPWG**

- File UCAiug Annex H Server Ed2 Certificate Template with 7-420 (5Sep).docx added

- Status changed from In Progress to Resolved

Update doc with comments from Vladan

**#8 - 09/08/2023 08:31 AM - Richard Schimmel**

- Related to Issues #6519: Need to be able to test 61850-7-420 (Ed2.1) added

**Files**

UCAiug Annex H Server Ed2 Certificate Template with 7-420.docx	40.6 KB	07/25/2023	Richard Schimmel
UCAiug Annex H Server Ed2 Certificate Template with 7-420 (August8).docx	42.6 KB	08/09/2023	Richard Schimmel
UCAiug Annex H Server Ed2 Certificate Template with 7-420 (5Sep).docx	42.6 KB	09/05/2023	IEC 61850 TPWG