Atmospheric
Measurement
Techniques
Discussions

Interactive comment on "Real time data acquisition of commercial microwave link networks for hydrometeorological applications" *by* C. Chwala et al.

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Dear Hidde,

thank you for your constructive comments. I will try to answer them below (your comments in black, my answers in blue).

Specific remark 1:

I think the paper would benefit from a description of the efforts that would be required to build the list of CML IP addresses and OIDs for a large networks of e.g. 10,000 links. This is partly explained in Appendix A, but I lack the background (and I think

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other readers of AMT as well) to fully understand this. And this is important to know if I would like to implement this method.

If the 10,000 links all are the same model from the same manufacturer you would only have to find out once, what the OIDs for querying RX- and TX-level are. With the OIDs you then have to build the Python list of dictionaries that pySNMPdaq understands (see example below). The OIDs are listed in the MIBs. The only problem is that the MIBs are huge and there is no naming convention for queries of the RX- and TX- power, as can be seen from the OIDs in text form in Table A1. If you have access to the MIB description, it will be a matter of some minutes to identify the correct OIDs. However, if there is also something like the *interface descriptor*, as it is the case for the Ericsson MINK LINK TN systems, then you would probably need advice from the manufacturer.

As an example for the case where all microwave links are of similar type, here is a link to a Jupyter notebook that goes through the process of building the necessary Python list of dictionaries for Ericsson MINK LINK TN systems:

Klick me

I will provide a PDF version of the notebook as supplementary material. However, I cannot provide the XLS file that is used, since it contains information about the microwave link network that I cannot make publicly available.

If the 10,000 links you want to query are different models from different manufacturers, then you would have to find out the correct OIDs for each of them. Hence, the effort will vary with the number of different models in your network. If possible, it would be best to let the network operators ask for this specific information from the manufacturers.

In addition to the notebook that I will supply as supplement, I will extend the appendix to explain the process of building the necessary OID listing.

Specific remark 2:

I would like to urge the authors to include time series of precipitation measured by

gauges and/or radar to Fig.3 and/or 4, so that the relevance for AMT(D) is made even more clear.

Yes, we agree. Please see my response to the editor comment which features an improved version of Fig. 3 with explanation. For Fig. 4 we will do the same.

Specific remark 3:

p.12250, line 5, misspelled word: "instantanseously" should be "instantaneously".

Thank you, this will be corrected.

Specific remark 4:

p.12254, line 1, I suggest changing "proofed" to "proved".

Agreed.

Specific remark 5:

.p.12254, line 17, I suggest changing "design" to "designed".

Agreed.

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 12243, 2015.