

Kristian Koellner

From: alison silverstein [alisonsilverstein@mac.com]
Sent: Monday, June 30, 2014 3:29 PM
To: PMTF@LISTS.ERCOT.COM; Kristian Koellner
Subject: [External] Re: ERCOT draft phasor communication handbook

Kris --

Thanks to you for the opportunity to review this, and to David Mercado for the reminder to get the review completed....
Here are a few additional suggestions:

+ As David notes, this text describes only EPG synchrophasor software -- but there are other equally excellent products available in the market from other vendors. To avoid the appearance that ERCOT and PMU owners are locked into or favoring EPG over other vendors, and to avoid adopting a handbook that forecloses any future shift to other software infrastructure, you should delete the draft's ubiquitous references to "ePDC" and RTDMS and refer to PDCs, visualization and analytical tools without naming specific proprietary products. You can add a separate paragraph that says, ERCOT is presently using these [named] products and processes in 2014, and list those products.

At some point soon you'll want to be feeding your PMU data into a state estimator and live control room situational analysis tools other than RTDMS; at that point you won't want to have to completely redo your outdated synchrophasor handbook....

In the front of the handbook, please explain what how ERCOT is presently using PMU data and in what applications. This is relevant to the commns handbook because if the data are being used for mission-critical operations, that would require that the commns be set up under higher CIP protocols. Since that's not the case at present, you might as well be explicit and make it clear that ERCOT uses (alone) do not require that the synchrophasor data, PMU installations or commns system require the highest level of critical infrastructure protection.

On p5 and 7, delete the text claiming that "ePDC is the next generation technology for PDCs"; other vendors might differ.... You might group all of the EPG-specific definitions (ISG, epdc, rtdms, rtdms client, whatever) in a separate table apart from the glossary, indicating that these are proprietary, vendor-specific terms relevant to the current implementation in ERCOT.

On p 11, add the time sync standard (IEEE 1588 standard for PTP over Ethernet) to the list of relevant standards.

On p12 re PMU time, please be aware that because of the possibility of GPS signal failure (whether due to mechanical failures or disconnects in the substation, or cyber attacks or GMD events at the PMU or satellite and signal), NASPI is recommending that PMUs have multiple time sources (on-board atomic clock or oscillator or network time signal) rather than using only GPS time signals.

On p12 re data availability -- is it necessary for the handbook to spell out whether ERCOT considers PMU data to be CEII or commercially sensitive information, and what responsibilities the TSP or MP takes on by accepting PMU data?

As a matter of disclosure, with whom (researchers? vendors? software developers? NERC events analysts? ERCOT staff?) will ERCOT be sharing the collected PMU information? If ERCOT decides to share the data with a new recipient, will it inform all of the data providers?

Have you considered setting up an automated archive of PMU data documenting ERCOT grid events, similar to what WECC/Peak has done? If so, you'd probably want to archive those data separately from the year-long archive referenced at the bottom of p12, with a different access protocol.

on p13, if i were a TO setting up a new PMU, to whom would i send this PMU data commn request form?

thanks -- alison

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On Jun 30, 2014, at 12:58 PM, Mercado, David L. <david.mercado@centerpointenergy.com> wrote:

Kris,

Attached are CenterPoint Energy's ?comments/edits/questions/feedback? on the Draft Synchrophasor Communication Handbook.

We appreciate the opportunity to provide our comments and look forward to the upcoming July PMTF meeting.

Thanks!

David Mercado
Lead Engineer, Transmission Planning
CenterPoint Energy
Ph: 713-207-2125

From: Kristian Koellner [<mailto:Kristian.Koellner@LCRA.ORG>]
Sent: Monday, June 16, 2014 5:41 PM
To: PMTF@LISTS.ERCOT.COM
Subject: ERCOT draft phasor communication handbook

PMTF ?

As introduced briefly at our last PMTF meeting, please see attached Synchrophasor Communication Handbook (version 0.02). Please review and note any comments/edits/questions/feedback w/changes tracked. Please target 6/30/14 for any recommended language changes.

Thank-you Wei Liu and others at ERCOT for making this document available.

Thanks,
Kris

From: Kristian Koellner [<mailto:Kristian.Koellner@LCRA.ORG>]

Sent: Thursday, May 29, 2014 7:47 PM

To: PMTF@LISTS.ERCOT.COM

Subject: [External] PMTF draft May 14th meeting notes and June PMTF mtg. cancellation notice

PMTF ?

Due to several factors including: chair & vice-chair availability, status of ongoing action items, summer vacations/graduations/etc and no confirmed guest speaker ? **Bill and I have opted to cancel the June 11th PMTF meeting.**

Our next meeting will be on Wednesday, [July 9th](#) and this meeting will be held in Taylor which will allow us to see how ERCOT is utilizing its RTDMS installation. Bill will be sending out some additional info on this meeting in the near future.

Please see the attached documents:

1. Draft meeting minutes for our May 14, 2014 meeting
2. Latest copy of the Synchrophasor Technology Assessment report ? all changes up to and including those made at our last meeting have been accepted. Several sections are marked for additional follow-up/editing.
3. Latest copy of the Issues List.
4. MOD data flow graphic from meeting
5. PMU placement graphic from meeting

Please target Monday, June 30th for any language changes that are planned to be reviewed at the July 9th PMTF meeting.

Thanks,
Kris

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