DPM - Bug #24377

Alarm Limits Don't Convey Nom/Tol

05/06/2020 06:44 AM - Beau Harrison

Status:	Assigned		**Start date:**	05/06/2020
Priority:	Normal		**Due date:**	
Assignee:	Beau Harrison		**% Done:**	0%
Category:	WebDPM		**Estimated time:**	0.00 hour
Target version:				

Description
Alarm limits are only ever reported as minimum and maximum and never as nominal and tolerance.

History

#1 - 05/06/2020 08:47 AM - Beau Harrison

Rich: "In MOOC, we only support MIN/MAX. If a NOM/TOL alarm block is downloaded to the front-end, it gets converted."

#2 - 05/06/2020 08:48 AM - Beau Harrison

Patrick Dowdle is reporting that L:ATOR.ANALOG_ALARM which is a nom/tol device is reporting the nom/tol values in the min/max fields of the JS DPM. I think what Rich is saying is that he expects the returned alarm limits to always be min/max. That doesn't appear to be the case.

#3 - 05/06/2020 09:53 AM - Richard Neswold

- Status changed from New to Assigned

Beau posted a comment by me:

> Rich: "In MOOC, we only support MIN/MAX. If a NOM/TOL alarm block is downloaded to the front-end, it gets converted."

It's actually worse than that. MOOC only supports MINMAX, unless the comments are lying:

vx-mooc:source:mooc++.h@96cffe5b#L662

MOOC defines MINMAX here:

vx-mooc:source:alarms.h@459e278f#L41

and the symbol isn't used anywhere in the codebase. This value is in the .K field of the analog alarm block. The **only** place in MOOC where this is referred is here:

vx-mooc:source:alarms.c@bc615d84#L1272

where it sets it to MINMAX unconditionally (and doesn't even use the MINMAX symbol to do it!) So to summarize: MOOC doesn't support NOM/TOL, and rather than return an error or converting a NOM/TOL alarm block, it interprets it as MIN/MAX.

#4 - 05/06/2020 10:01 AM - Beau Harrison

This seems to suggest that MOOC nom/tol devices are broken but I know that not to be true.

#5 - 05/06/2020 11:43 AM - Beau Harrison

There's a big caveat here that may not be obvious to users, all alarm limits are reported as min/max even if they are nom/tol. I don't think this is a problem.

Patrick's issue is specifically with a few devices on LIP (IRM) nodes. The min value is larger than the max values and doesn't align with the database in any way that I can see.

#6 - 05/06/2020 03:41 PM - Beau Harrison

The nom/tol values are coming back in the min/max fields but the DPM user doesn't have any way to know that it's a nom/tol device.