

# Idea notes

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things I would like to add to the spec but not sure of there implementation is feaseble.

## shear bolt

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when a device fail it often bring the bus with him. we need to add something that would make the bus fail in a predictable way and/or make sure the crucial part of the bus cans stay intact.

## Power over twisted pair (POTP)

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Wild idea to send power aswel of data over a same twisted pair. We would only need 3 cable instead of 4: A,B,Ground. A power-data decoupler would need to be used before the tranciver.

## have 2 specification

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like RISC-V there is two spec privileged and unprivileged specification. We could do the same for SHER-Bus.

## SHER-Bus Multipoint

### SHER-Bus Point to Point

High speed but only between 2 controler. Use of LVDS instead SHER-Bus PTP can be connected to a SHER-Bus MTP trough an end bridge.

## SHER-Bus Injection Detection

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On many bus like can its easy for and ill intentioned person to inject message that shoud not be present on the bus. heres an [exemple](#). On SHER-Bus beacause we have unique identifier for each controller each one can monitor for someone who try to use its own BPI ID. Or verify for unsupported Application code. Then It can send a Lockdown Command packet and prevent any other packet by sending continus ones preventing any packet.