

Boeing /cr/

Mike Leffel to: John Yochum, Nick Lalic

09/23/2015 06:04 AM

Cc: Gregory Vaught

History: This message has been replied to.

Hi John and Nick,

The firmware team is working on the Boeing solution right now.

They estimate a beta on Tuesday of next week.

The approach is to add a command that allows multiple calibrations to be started in multiple channels .
CORRection:COLLect:CHANnells:MCTypes ON|OFF Where MCTypes stands for multiple cal types.

At the end of the calibration process we can turn this feature off to revert to normal ZNB operation.

One thing that I did not know. Munich is telling me that this approach already works on the ZVA today. Except that the new command is not needed!!! The ZVA will let you start two different calibrations simultaneously when operating under remote control.

I had no idea that this was possible.

Based on this, I would like you to detect if you are connected to a ZNB or a ZVA. If a ZNB, then send out the new command to enable this mode. If you are on a ZVA, then do NOT send the command. This way we can test the change on the ZVA right now.

Knowing this I would like to get your modified code ASAP. Greg and I can test this on a ZVA to make sure it works. Then as soon as the Beta is available, all three of us can test it on the ZNB.

Can you estimate when we can get a new version of the software? The change is very simple in concept, and as we discussed, and I do not believe this will have a large impact on your code.

Best Regards,

Mike

```
// define calibrations in the two temporary channels.
SENSe1:CORRection:COLLect:METHod:DEfine 'SubCal Low', ...
SENSe2:CORRection:COLLect:METHod:DEfine 'SubCal High', ...

// switch on the special mode that allows multiple active calibrations at the same
time
CORRection:COLLect:CHANnells:MCTypes ON

// interleaved acquisition of cal standards (always provide the channel number to
allow
assignment of the cal measurement to the dedicated cal in the channel)

// here a standard needed for both cals:
SENSe1:CORRection:COLLect:ACQuire:SElected ...
SENSe2:CORRection:COLLect:ACQuire:SElected ...

// this standard is needed only for the cal in Ch2:
SENSe2:CORRection:COLLect:ACQuire:SElected ...
```

```
// more standards
// ...

// complete cal for all your channels:
SENSe1:CORRection:COLLect:SAVE:SElected
SENSe2:CORRection:COLLect:SAVE:SElected

// switch off the special mode that allows multiple active calibrations at the same
time
CORRection:COLLect:CHANnels:MCTypes OFF
```

That last step is optional, but to me it is the safest way to proceed. This limits our exposure to the new firmware routines.

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