From: Stafford, Mark
To: Aniyath, Praseedha; Mathew, Manoj
Cc: Muller, Arne; Pocock, Kyall
Subject: RE: macro commands for focus offset for find surface.
Date: Wednesday, October 14, 2020 7:21:20 AM

Hi Praseedha,

Excellent, thanks for the rapid reply. Much appreciated. We can test this on the customers CD 7 in our next remote session. If I have any issues I will let you know.

Cheers.

Best regards,

Mark.

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From: Aniyath, Praseedha <praseedha.aniyath@zeiss.com>
Sent: Tuesday, 13 October 2020 8:09 PM
To: Mathew, Manoj <manoj.mathew@zeiss.com>; Stafford, Mark <mark.stafford@zeiss.com>
Cc: Muller, Arne <arne.muller@zeiss.com>; Pocock, Kyall <kyall.pocock@zeiss.com>
Subject: RE: macro commands for focus offset for find surface.

Hi Marc,

Thanks for reaching out.

Please find attached the modified code snippet. The red portions are the new additions.

```
##find focus-position and initialize DF
  Zen.Acquisition.FindSurface()
  SWAF_exp = Zen.Acquisition.Experiments.ActiveExperiment
  Zen.Acquisition.FindAutofocus(SWAF_exp)

  Var=10 # Desired offset in um. 10um given here.
  Zact=Zen.Devices.Focus.ActualPosition # Finding the current focus position
  Zen.Devices.Focus.MoveTo(Zact+Var) # Move to the new offset

  Zen.Acquisition.StoreFocus() # The StoreFocus() now stores the new focus (with the desired offset)
```

Hope this solves the problem. If you need further support, please don't hesitate to reach out to us.

Best Regards,
Praseedha

From: Mathew, Manoj <manoj.mathew@zeiss.com>
Sent: Friday, October 9, 2020 11:01 AM
To: Stafford, Mark <mark.stafford@zeiss.com>
Cc: Muller, Arne <arne.muller@zeiss.com>; Pocock, Kyall <kyall.pocock@zeiss.com>; Aniyath, Praseedha <praseedha.aniyath@zeiss.com>
Subject: RE: macro commands for focus offset for find surface.

Hi Marc,

Thanks for reaching out.

At first glance, this looks doable. Let me take a closer look at the full macro and get back to you.

I am adding Praseedha, who joined us recently in Singapore and will be responsible for OAD projects.

Are you already registered for our newsletter? Register here!

Best Regards,
Manoj

_____

Dr. Manoj Vathalloor Mathew
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From: Stafford, Mark <mark.stafford@zeiss.com>
Sent: Friday, October 9, 2020 9:09 AM
To: Mathew, Manoj <manoj.mathew@zeiss.com>
Cc: Muller, Arne <arne.muller@zeiss.com>; Pocock, Kyall <kyall.pocock@zeiss.com>
Subject: macro commands for focus offset for find surface.

Hi Manoj,

I hope you're doing ok and things are going well?

I have a request from one of our CD7 customers with the PAA loader to modify one of our focusing macros to include the following sequence:

"Can we record a sequence of steps to run as an experiment for automation (maybe in experiment design?)?
(eg. 1. find surface -> go to off-set 10um -> store focus -> run the program)"

It's going to be something like this.

```
if (focstrat=='005'):

    ## Example: Change to 5x/0.35 Objective 1.0x Mag Changer Find Surface Store Focus

    Zen.Acquisition.FindSurface()# initial Find Focus

    Zen.Devices.ObjectiveChanger.TargetPosition = 1

    Zen.Devices.ObjectiveChanger.Apply()

    Zen.Devices.Optovar.TargetPosition = 2

    Zen.Devices.Optovar.Apply()

    ##Zen.Application.Wait(15000)

    ##find focus-position and initialize DF

    Zen.Acquisition.FindSurface()

    Zen.Acquisition.StoreFocus()
```

I need to add something here I think to get the offset but I'm not sure of the way to get +/- 10 um from the actual position of the find surface focus point?

Might be something like what I have in blue below but I'm not sure.

____

```
##find focus-position and initialize DF

Zen.Acquisition.FindSurface()

Zen.Devices.Focus.ActualPosition ….(“something something here”)

Zen.Acquisition.StoreFocus()
```

If you have any advice on the command syntax that would be really helpful. Full macro is attached.

Cheers and thanks.

Best regards,

Mark.

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