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**From:** [REDACTED]  
**Sent:** Tuesday, August 5, 2014 12:46 PM PDT  
**To:** Eran Kali; David Mendlovic; Gal Shabtay  
**CC:** [REDACTED]; Graham Townsend;  
**Subject:** Re: Wednesday 7/30 London

Hi David/Eran/Gal,

Please see Apple's engineering team feedback with the suggested high level deliverables and milestones, let us know if you have any questions/feedback regarding the listed items and schedule:

**Software team's list of top level deliverables:**

1. Code for smooth transition between modules (exposure, focus, color balance, tone mapping)
2. Still image fusion code which does not suffer from artifacts from high speed local motion
3. Video processing code (to handle switch to/from tele)
4. Calibration code
5. Calibration setup (full mechanical/optical/electrical setup including test charts)
6. Camera control for exposure/color/tone-map control as well as operating modes
7. Readout synchronization between modules
8. Alignment tolerances between modules
9. Software compensation for drop induced errors and associated tolerances
10. SW implementation which handles any orientation of modules, i.e. with the second module either placed above or next to the first module
11. Software control of an OIS mechanism to be used as part of zoom user experience

Suggested list of milestones with the timeline starting at the evaluation completion date (number of weeks are not cumulative):

- + 1 week: Documentation and/or C/matlab/pseudo code for Top Level Deliverable 1, 2, 3, 4, 6, 7, 8, 9, 10, and 11.
- + 8 weeks: Functional version of Top Level Deliverable 5 and 6
- + 12 weeks: GPU/CPU optimization running on iPhone 5s of Top Level Deliverable 2 and 10. Max. processing time of 500ms.
- + 12 weeks: GPU/CPU optimization running on iPhone 5s of Top Level Deliverable 3. Switch between modules should be almost invisible.
- +12 weeks: GPU/CPU optimization running on iPhone 5s of Top Level Deliverable 9.
  
- + 24 weeks: Optimized version of Top Level Deliverables 5 and 6. Max. calibration time per module of 10s.

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**Hardware team's may be interested in:**

1. Per module calibration
2. Synchronization between the two sensors

At this time there is no interest in lens design, magnetic interference minimization, OIS actuator synchronization

Looking forward to your feedback regarding access to Qualcomm-based eval boards and list of features for exclusivity.

Thanks,

On Aug 3, 2014, at 7:49 AM, Eran Kali <[ekali@corephotonics.com](mailto:ekali@corephotonics.com)> wrote:

Hi [REDACTED]

- Please send us [REDACTED] contact details
- Please provide conference call in details for Monday 08:30 PDT
- We will shortly provide the features space and suggested restricted exclusivity scenario
- Checking with QCM

Best Regards

Eran Jonathan Kali  
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mobile: +972-54-440-2674

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**From:** [REDACTED] [REDACTED]  
**Sent:** Friday, August 01, 2014 2:41 AM  
**To:** Eran Kali; David Mendlovic  
**Cc:** [REDACTED]  
**Subject:** Re: Wednesday 7/30 London

Hi Eran and David,

Thanks for meeting with us yesterday in London, we felt that it was a very productive meeting.

Below are the action items from my meeting notes.

Please let me know if you have any questions or comments and feel free too add anything I have missed.

1. CP to send telephoto lens samples to Apple [Please send three pieces of your latest [REDACTED] telephoto lens to Cupertino addressed to [REDACTED]]

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2. CP to discuss the value of the lens and module design with Apple [I will setup a meeting with the camera hardware team to discuss your value position in the area of lens and module design, would Monday 8:30 am PDT work for you?]
3. CP to provide a list of features that can be used to define exclusivity [when can we expect this?]
4. CP to seek permission from Qualcomm to allow Apple to use the evaluation boards without CP supervision [when can we expect an answer?]
5. Apple to provide clarity on the scope (i.e. software, hardware or both), milestones and timing of the project [may require a conference call to brainstorm relevant milestones after the scope is defined]
6. Apple to begin drafting the agreement in parallel
7. Both parties to further discuss payment structure and amounts
8. Meeting in Cupertino to finalize and sign the deal

Regards,



On Jul 22, 2014, at 4:48 AM, Eran Kali <[ekali@corephotonics.com](mailto:ekali@corephotonics.com)> wrote:

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