

Date: **02/10-10**

Company: **Company F**

Authors: **Kaj N. Nielsen, Kenneth Pihl, Anders H. Poder, Lars Munch**

Revision: **A**

Document ID: **Response to RS for sub-supplier**

Dear Mr. Jensen,

We sincerely would like to congratulate you as the winner of the Contract with Systematic. We are very happy to be appointed as subcontractors as a part of this project.

Looking through the "Requirement Specification for sub-supplier" has raised a number of unanswered questions. The answers to these questions are all of high importance for us. We will not be able to get into designing this very interesting device before answers are recieved.

1. According to TPOD-0001 The COP shall be able to interface with every existing communication systems within the involved domains.
 - a. Is there a list of communication systems to interface?
 - b. Are there specifications to the interfaces?
 - c. Are there other documents available that would answer these questions for us?
2. According to TPOD-0002 The handheld device shall include a touch screen to interface the software
 - a. Is this presumably the Human interface of the software.?
 - b. Is the software a part of our deliverance ?
 - c. May software be ported from other stations?
 - d. What about operating systems?
3. According to TPOD-0003 It shall be possible to locate the handheld device at any time?
 - a. Is this requirement meant for
 - i. Finding the COP "laying around" somewhere (triangulation)
 - ii. Or for the COP to "know" its own coordinates(as a part of navigation)
 - b. This is impossible if the COP is without power or damaged?
 - c. Do you mean that the COP must
 - d. We could specify a restricted time, within wich the COP would be traceable?
 - e. We would also have to specify something about how much effort is to be put into finding the thing?
 - f. Or even better how high the electrical field radiated from the COP is?
4. According to TPOD-0004 The handheld device shall include features, which enables verbal communication with a mobile head quarter.
 - a. Could this be through a headset. Maybe Bluetoth?
 - b. If not what are the demands for the audio quality ?

5. According to TPOD-0005 The handheld device must be able to deploy firmware over-the air (FOTA) technology.
 - a. Is this a full firmware upgrade?
 - b. What are the standards used ?
6. According to TPOD-0009 The handheld device shall be fully functional after a drop of 1 meter on concrete floor. This includes both software and hardware features.
 - a. We will assume that all Non-functional requirements also must be met after the fall?
 - b. We will assume that the fall is not repeated?
7. According to TPOD-0011 The battery in the handheld device shall be replaceable on sight and rechargeable by means of a 12V battery supply.
 - a. The first requirement here is that the battery is replaceable?
 - b. Are there any demands to how long into the future these batteries must be supplyable?
 - c. The next requirement has to do with recharging. Are there any tolerances to the 12 volt, or shall we try come up with better specifications to meet car-battery-requirements?
8. According to TPOD-0012 It shall be possible to interface all functionality of the handheld device by using your hands only and hands with gloves.
 - a. You must face degrading user friendliness when using gloves. Is this all right?
 - b. This Requirement also has to do with the GUI of the software (see 2.b)?
9. According to TPOD-0014 The battery in the handheld device shall last for at least 12 hours of operation.
 - a. This requirement is impractical as some operations use more power than others, e.g. FOTA or other wireless communication may take more than ten times the normal power consumption. A better requirement would be 12 hour normal operations, and then specify what "normal" is
10. According to TPOD-0015 The display shall be readable in direct sunlight and the sub-supplier shall evaluate the best possible technology for a screen that performs a minimum of 1000 cd/m2.
 - a. Will the last part of the requirement : "a screen that performs a minimum of 1000 cd/m2" not make the first part "The display shall be readable in direct sunlight" unnecessary?
 - b. Best possible technology is a vague formulation. Can this be omitted ?
11. According to TPOD-0016 The handheld device shall as minimum contain a general purpose 1GHz processor and 512MB Ram and 420MHz dedicated DSP processor.
 - a. What is the purpose with this constraint, if the other requirements are met ?
 - b. Is this only good advice?
 - c. Is this for future development?

We hope to get a soon response.

Yours sincerely

Lars Munch

Anders H. Poder

Kenneth Pihl

Kaj N. Nielsen