Special Notice: N00014-16-R-SN02
Amendment 0001
"Undersea Technologies for Autonomous Detection and Communications"

The purpose of Amendment 0001 is to respond to questions submitted in response to the above numbered Special Notice.

Question 1: Is there a common data set to be provided with attributes such as sensorial input, object repository size? For classification, what is roughly the size of the data set and label set?

Answer 1: Following award selection, further information regarding baseline data will be provided.

Question 2: Are you expecting offerors to propose both computational software algorithms and hardware platforms to host these algorithms? Can offerors propose only software algorithms accompanied by analysis of computational efficiency? Can offerors only propose computational software algorithms?

Answer 2: Proposals for software algorithm development, independent of provided hardware, are invited. All proposals including algorithmic development should discuss metrics/approaches for analyzing computational efficiency with considerations of Size, Weight, and Power (SWaP) constraints, based on provided hardware requirements for the system.

Question 3: Do the nodes referenced in the research areas for Thrust 1 include mobile nodes?
Is this application geared towards (i) using a potentially stationary sensor network that tracks mobile targets, or (ii) using mobile network nodes (i.e. AUVs)?

Answer 3: This solicitation invites both stationary and mobile sensor configurations for consideration.

Question 4: Are technologies that include C3 in the Detection, Tracking, Localization and Identification (DTLI) loop of interest? Specifically, are technologies that enable mobile nodes to autonomously route themselves. . .to optimize DTLI performance [within the scope of your program]?

Answer 4: Proposals which address each Thrust individually or combined are welcomed.

Question 5: What is the main CONOPS for the technologies envisioned in this BAA?

Answer 5: Following award selection, further information regarding concepts of employment will be provided.

Question 6: Are airborne approaches a valid submittal, or is ONR only interested in underwater concepts?

Answer 6: This solicitation is primarily focused on in-water, or originating from in-water, capability for the first thrust; for the second thrust, proposals for air-sea communications interfaces are welcomed.

Question 7: Is development of technology for short range, multi-hop high-rate ultrasonic networking [within the scope of your program]?

Answer 7: Yes.

Question 8: Are hardware prototypes and software/algorithms to deliver streaming video or other time-sensitive data to the surface in real time within the scope of your program?

Answer 8: Yes.