

Cutting eavesdropping risks using AI - Clarification Questions and Answers

Question	Answer
Could you provide the data or some details about the origin of the data (source, size, method of creation)?	We will be providing the data for this challenge to the winning solution provider. However, at this stage what we can say is the data will be thermal and cyclic noise created electronically or mechanically. The speech data will be male and female speakers mixed with varying levels of the noise. The data sets will be of the order of tens of hours long recorded as 16 bit 44.1 kHz sample rate PCM.
Is HMGCC is looking for AI software that can filter out a certain conversation in a noisy environment. An audio file has been extracted from a call recording audio file.	HMGCC is looking for an AI based algorithm that will improve the intelligibility of a speaker in a noisy background. Samples of speech plus noise recordings at different signal to noise ratios will be provided. Also, recordings of the different types of noise will be provided, to train the AI algorithm.
The solution might be a mix of software and hardware?	The solution would be principally software that would run on a hardware platform. However, if hardware processing of the audio samples is required as part of the solution, then that is within the scope of the task.
Is the solution intended to use single channel audio or multi-channel?	The solution is required to take only single channel data
Will the supplied test data contain a range of signal/noise ratio samples	Samples of speech plus noise at different signal to noise ratios will be provided and also samples of various noise sources will be provided.