

MARKET RESEARCH OF DETECTION OF ENTRY, PASSAGE AND DEPARTURE OF EMPLOYEES WITHIN SPECIFIED CANAL AREAS

BACKGROUND

The Panama Canal Authority (ACP) requires monitoring the location of employees that are key to the Canal operation in real time. The purpose of this market study is to find technologies and procedures to achieve this goal.

The ACP is exploring the most efficient way to keep track of the arrival and departure of employees involved in the Panama Canal operation (e.g., pilots, line handlers, tug's crew, boarding officer, admeasurement officer) in specific Canal areas, without having the employee interact with a system or a person. It is required to detect the date and time of arrival and departure of an employee in a specified area in order to verify that this date and time complies with the employee's duty time.

The ACP is requesting the interested parties to propose the best solution to the problem. This proposal should include both the technologies and the general methodology to use the technology to achieve the solution.

CONSIDERATIONS

- The date and time of arrival at the sites must be exposed via API to be consumed by other applications.
- The approximate number of employees to detect is around three thousand.
- To carry out a demo, a written request must be made that includes the attached table and a brief explanation of what the demo consists of, who is the audience and what is the date and the Panama Canal Authority will accept or reject it.
- The proposed solution to detect arrivals and departures must support multiple people, healthy distances (due to pandemic), without human intervention. For example, if six employees were to cross the detection threshold at the same time, the solution should detect them irrelevant of order or configuration of how the crossed the threshold.
- The proponent may consider interacting with components that the Panama Canal Authority already has, for example Radios or Tablets. The Panama Canal Authority has a personal identification card called IP which has RFID technology that operates at a frequency of 13.56 MHz
- The hardware to be used in the solution must comply with at least IP65.
- If the proponent has available a technology that requires infrastructure not mentioned in this document, he may inquire us about our infrastructure while elaborating their proposal.
- Some of the Canal areas where detection is required include:
 - o Existing building with multiple entrances, which can be used for arrival or departure.
 - o Open areas like piers or docks.

CONFIDENTIALITY

All proponents must always respect the rights of intellectual property and the confidentiality of the reserved information to which access has been granted due to this market study. The term "Reserved Information" refers to any confidential or classified information or material owned by the Panama Canal Authority, whether or not owned or developed by the Panama Canal Authority. The term "Information" refers to any or all information disclosed or obtained from the Panama Canal Authority that, in the reasonable judgment of a common person, could appear to be proprietary in nature and that, therefore, in their opinion, should not be disclosed to third parties without the consent of the Panama Canal Authority. This includes business information and technical information. The proponent agrees:

- Not to copy or modify any Reserved Information without the prior written consent of the Panama Canal Authority.
- To comply with their duties regarding the handling of confidential or reserved information including not disclosing it to other people inside or outside the proponent's organization, except those who need to know it in an authorized manner in order to complete the study requested by the Panama Canal Authority; to people outside the proponent's organization; nor for the benefit of the proponent or of any person.

DISCLAIMER

The response to this request is only for the purpose of knowing your interest in participating under the terms and conditions established by Panama Canal Authority. This request does not constitute an offer to hire, nor should it be construed as evidence of intent to hire the work later. The Panama Canal Authority will not refund the cost of supplying the requested information. Failure to respond to this request for information does not prevent participation in any other market study or purchase request, if one is issued.

Please send your proposal no later than **September 10, 2021**, to the following contact points:

- lrutter@pancanal.com
- lkquintero@pancanal.com

ATTACHED			
PROPOSAL, FINANCIAL INFORMATION AND EXPERIENCE OF COMPANY			
The delivery of this document is for market study purposes only; this does not represent an award commitment; the purpose is to know if the requested service may be provided according to the terms and conditions established by the Panama Canal Authority and within the estimated budget.			
#	Description	Response	Remarks
I.	PROPOSAL:		
	General proposal (attach information)		
	Estimated price of high-level solution		
II.	FINANCIAL INFORMATION OF COMPANY:		
	Annual revenue range	-	-
	2018		-
	2019		-
	2020		-
III.	EXPERIENCE OF COMPANY		
1.	Years on the market.		
2.	Years of experience providing this type of solutions.		-
3.	Does have qualified personal for this type of solution?		
4.	Did you have implement this type of solution?		-
5.	Estimated numbers of customers for who has provided this service.		-
6.	Are you willing to provide contact information for your customers?		-