



Purchasing Department
530 Water Street
Oakland, CA 94607

April 18, 2023

ADDENDUM No. 1

RFQ No.: 22-23/21 - Citizens Broadband Radio Services (CBRS) at Oakland International Airport, Oakland, CA

This Addendum modifies the original RFQ Documents for the above-mentioned RFQ. **Acknowledge receipt of this addendum in the space provided on the RFQ Acknowledgement and Signature Form (Attachment 3). Failure to do so may disqualify your qualification.**

The following questions were submitted by the deadline and are answered in this addendum.

1. **Question:** I would like to view the attendance list from the Pre-Qualification Zoom meeting that was held on April 5th for the 'Citizens Broadband Radio Services (CBRS) at Oakland International Airport' RFQ No. 22-23/21.

Answer: See attached Pre-Qualification Meeting Sign-In sheet.

2. **Question:** If there is a technical issue experienced in submitting the Qualification through Liquid Files, who do we reach out to for support?

Answer: Liquid Files limits the file size to a maximum of 3 Gigabytes (GB) so please ensure your file size does not exceed 3 Gigabytes before uploading. If you need assistance, you can contact Nicklaus Sioson (510.627.1140 or Email: nsioson@portoakland.com), but please do so early enough to ensure that your qualification can be received on-time. Below are the instructions for uploading your qualification to Liquid Files.

Electronic Delivery Address	https://lf.portoakland.com/ Please login to Liquid Files at the above listed URL and click on the "Register" button to upload your Qualifications to nsioson@portoakland.com . Do not email your Qualifications to the buyer directly. Your Qualifications must be uploaded to the Liquid Files' site to be accepted by the Port. Once your Qualifications has been uploaded to Liquid Files, you will receive a copy of the email that Liquid Files generates to the buyer with your Qualifications. (Note: Liquid Files limits the file size to a maximum of 3 Gigabytes (GB), and <u>there will</u>
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	be a slight delay as to when Liquid Files emails your Qualifications to the buyer, so please upload your file early so that it will be received by the due date and time.) If your file size is larger than 3 GB, please modify it to be less than 3 GB.
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3. **Question:** What date is forecasted for RFQ final decision that would be narrowing the field for the RFP step? Understanding the deadline for RFQ submission is 5/11/23, what date is forecasted after that for selection of the RFP invitees?

Answer: We anticipate having a short list before the end of May.

4. **Question:** RFQ will be submitted electronically to via the link, will we get a "received" confirmation?

Answer: Yes, when you upload your Qualifications to Liquid Files, you will receive a copy of the email that Liquid Files generates to the buyer emailed to you. There may be a slight delay in when Liquid Files emails your Qualifications to the Port, so please ensure you have uploaded your Qualifications with sufficient time to allow Liquid Files to generate an email to the Port. The Port will use the date and time stamp on the email document that is generated from Liquid Files as proof of timely delivery. (Please note: The Port may not actually download your Qualifications until after the date and time for delivery has passed.) Qualifications received after the date and time specified in the RFQ will not be downloaded by the Port.

5. **Question:** Does this project include a new CBRS network, or supporting an existing one?

Answer: This project is for an all new CBRS solution. You may be able to use some of the pathways and mounts from the existing wireless network, but the Port does not currently have a CBRS solution. This would include design, all hardware, implementation, and support for 5 years with 2 1-year options.

6. **Question:** Does the Port of Oakland own any CBRS PAL licenses?

Answer: The Port does not.

7. **Question:** The intent is to use the GA spectrum?

Answer: We would like to investigate if we would qualify for PAL.

8. **Question:** When you say support do you mean that you would want to be able to call the provider and have them support every aspect of the network?

Answer: We can negotiate what the support looks like. In the past with other systems, we contracted a local firm for boots on the ground. If we see issues with the CBRS network, we will want to call and have support in trying to diagnose it.

9. **Question:** Is your expectation also to have proactive monitoring, so the support vendor would call you if they saw issues?

Answer: Yes, this is something the Port would be interested in.

10. **Question:** What is the current monitoring system the Port has in place?

Answer: The Port uses OpenView for monitoring up/downs but would be willing to discuss a new system to be included with this project. The current system uses SNMP.

11. **Question:** Would you want to integrate with ServiceNow?

Answer: The Port uses ServiceNow and would prefer any new systems added to be integrated to get alerts.

12. **Question:** Is the Port open to other frequency bands, or are you committed to CBRS?

Answer: The Port is committed to using CBRS, with that being said, if the solution will not work for us in our environment, we would be willing to consider other solutions.

13. **Question:** Do you have a performance requirement for each use case? Like upload/download requirements?

Answer: The Port has not set a minimum requirement. The current bandwidth needs are pretty low, but with that being said we want room to grow to be able to support additional cameras, access control and mobile devices. We have not set any minimum requirements, the biggest reason we are doing this is for stability and security.

14. **Question:** You mentioned CCTV and badge readers inside the buildings at Northfield, would it be safe to say that you are looking for both indoor and outdoor coverage?

Answer: The existing network is connected via poles located on top or on the side of buildings. At this time no indoor coverage is intended, only outdoor.

15. **Question:** What is the OEM of the neutral host DAS onsite?

Answer: The Port does not currently have a neutrally hosted DAS.

16. **Question:** What hardware was used for the CBRS pilot?

Answer:

- a) Airspan 1030 Outdoor Radio*
- b) Airspan Airspot 5410 CPE*
- c) Druid Raemis 4G/5G Core on Dell Server*
- d) Fortinet Secure Gateway*
- e) FibroLan Grand Master*
- f) Amit IDG500 IoT Gateways*

17. **Question:** With a new CBRS install, or you also looking to replace any of the existing camera or access control systems currently in use?

Answer: The Port currently uses Milestone for a Video management solution and software house CCURE 9000 for access control. The Port is very happy with both of these systems and would not be looking to replace them at this time.

18. **Question:** During the time that the CBRS pilot was running, did you ever have periods when you lost connection to the SAS?

Answer: No.

19. **Question:** How long was the pilot running for?

Answer: A couple of months. The original plan was to run it for a month, but we tried some different techniques for how we were routing traffic with and want to use as little hardware as possible.

20. **Question:** Would this be connected to your existing network, so LAN services such as VLANs would also have to be supported?

Answer: Yes. Initially we need to traffic CCTV and access control, but if the need comes up to blanket the area with internet for our asset management system, we want to be able to provide that.

21. **Question:** Is there any concerns as to using these frequencies from FAA?

Answer: None that we are aware of, but anything we do will need their approval including any new poles being added around the airfield.

22. **Question:** Are you looking for a private wireless solution with backhaul that operates on a dedicated fiber network or on an existing LAN?

Answer: Currently Existing LAN. Overall design will come once a proposer is selected.

23. Is the Port of Oakland willing to consider any proposals whereby the awarded firm would own and operate the network?

Answer: Yes

24. **Question:** Is the Port of Oakland open to other forms of agreement? If so, we can provide our standard lease agreement which we can tailor to the installation and operation of the CBRS?

Answer: At this time the intent is to use the Professional Services Agreement included with the RFQ.

25. **Question:** Section IV Submission Requirements - Project Approach states Provide an overview describing the general approach, scope of services ... Further this section provides a maximum of 4 pages in response. After reviewing Section II Scope of Services, it includes a requirement to describe a Task, with 7 specific areas, and a qualifications section

with 20 specific required responses. The listing of requirements takes up 1 1/2 pages. Can the Port of Oakland increase the page limit for responding to seven pages?

Answer: Yes, the Port will allow to up 10 pages.

26. **Question:** General Services - This section states that the CBRS system will be managed by the Proposer. Can the port clarify what management encompasses, such as performing maintenance, repair and replacement etc.?

Answer: All should be considered. The proposer may already have a local firm to help with the Maintenance of the system. This would be negotiated with the selected proposer.

27. **Question:** Section IV Submission Requirements - The Cover letter requirements state a two page maximum and yet also requires "any exceptions to the Professional Services Agreement in Attachment 11 or this RFQ and enumerate these exceptions in this section". Can you confirm you are looking for full clarifications and exceptions to the Professional Services Agreement in the submission as it relates to a request for qualifications?

Answer: We are not looking for major exceptions as we most likely are not going to accept them. If you have minor exceptions to the Professional Services Agreement or the RFQ, please list them. If your exceptions end up exceeding the two-page limit, we are fine with that so long as you are providing clear and detail reasons explaining your exceptions. Exceptions are discouraged and may result in lower evaluation points during the Port's evaluation of your qualification.

28. **Question:** Who is the partner and OEM selected for the pilot CBRS network? When was this deployed and is it still up and running. Also, any lessons learned that can be shared from this pilot?

Answer: Betacom was the partner that helped with the pilot. This hardware is no longer installed. No other information will be disclosed until a proposer is selected.

29. **Question:** Project Overview - Is 2023 budget currently allocated for this project and by whom?

Answer: Yes, The IT Division of the Port of Oakland.

30. **Question:** Project Overview - When is award date expected?

Answer: We expect the initial discovery and estimated cost to take a little time. Expected to obtain Board approval late fall.

31. **Question:** Project Overview - When is implementation planned?

Answer: Late in the year to first quarter 2024.

32. **Question:** Project Overview - Can you describe the process and timeline between RFQ response and award date?

Answer: Once a proposer is selected, the port will enter into a discovery period and initial design and estimate. If an initial agreement is reached, the Port will seek Board approval for the project. Once approved, contracting, and plan for implementation. This can take some time, so expecting implementation around end of the year to 1st quarter of 2024.

33. **Question:** A. General Services - Regarding the statement: "The Port shall be able to seamlessly manage the CBRS provisioned extensions of the Port network using existing Port network management systems." ... Can you please identify the existing network management systems?

Answer: The Port currently uses OpenView and ServiceNow. The Port may move to a different solution during this engagement and will be willing to discuss new solutions with the selected proposer.

34. **Question:** A. General Services - What type of users are being considered for the scope of services? Airport support personnel? Others?

Answer: Only Airport Employees and stakeholders.

35. **Question:** A. General Services - Under the use cases mentioned in the "immediate Northfield use cases", you mention additional airfield mobile connectivity. Can you please elaborate on the devices/equipment that are being considered for additional airfield mobile connectivity?

Answer: The Port is currently implementing a cloud-based asset management solution. While internet connectivity is available in Northfield, in other project phases we may be looking to provide connectivity to Airport staff across the Port Enterprise.

36. **Question:** A. General Services - Can you elaborate on the data warehouse tool(s) used at the airport? How often does the Port Authority wish to see the information being sent to the city? Please define the format(s)?

Answer: We do not share data with the city. Data solutions and where they are hosted will be discussed with the selected proposer.

37. **Question:** A. General Services – Will the service provider be permitted to host our Edge Compute devices in an Airport IT data center?

Answer: Yes

38. **Question:** A. General Services - Are the badge readers and gate controllers indoor, outdoor or both?

Answer: Both

39. **Question:** Area 1: North Field Immediate Use Cases - Are there site-specific restrictions on connecting to the Cloud Portion of our solution?

Answer: We do not believe so. Internet access can be granted for any hardware installed in a Port IDF/Datacenter.

40. **Question:** Area 1: North Field Immediate Use Cases - What are the network availability and Redundancy SLA Requirements?

Answer: This can be negotiated, but the Port would like a highly available network.

41. **Question:** Area 1: North Field Immediate Use Cases - What is the bandwidth available from the existing Airport LAN and Internet Connection to serve these use cases?

Answer: 100mb shared between all buildings.

42. **Question:** B. Respondent's Minimum Qualifications - What are the Port security badge requirements?

Answer: To be provided an airport badge, all applicants must pass a background check.

43. **Question:** Is the Port Authority looking to remove the existing network connections to these devices and replace with new connectivity from the CBRS network? Redundant?

Answer: Yes, and Yes.

44. **Question:** Must the successful bidder for the CBRS project also provide the resources required for the potential "public works" installation tasks? Or can this work be subcontracted to the Port's established public works contractors? Per the Port's requirements, "resources needed to support the installation must be contracted to appropriate specialty trades under existing Port policies and Labor Code section 1725.5 as defined in Section III. 5. Port Policy Requirements".

Answer: The intent is to negotiate this with the winning proposer. Some work may be able to be done with Port facilities, existing Port contractors, or the selected proposer.

45. **Question:** How much focus does the Port wish to place on the development of the use cases for "Potential Future Phases" in the contracted project scope?

Answer: The focus of this initial scope is to provide a secure wireless private network in our Northfield. If this project proves to be successful, the Port will consider it for future work in other areas.

46. **Question:** Can fencing around the area be used to put small cells on or can Poles be added beside the fence?

Answer: Both are possible but may not be desirable. Existing poles and infrastructure can be re-used.

47. **Question:** Assuming all coverage for the North Field is outdoor only?

Answer: Yes

48. **Question:** Assuming power, HVAC upgrades, UPS are not required for initial RFQ response, please confirm.

Answer: That is a good assumption, but all can be considered once we get into a design phase.

49. **Question:** Is pricing required as part of the response to the RFQ?

Answer: No

50. **Question:** Will the due date be extended?

Answer: No

51. **Question:** Page 10/Item 16, RFQ: Describe how the CBRS system will be integrated into an existing complex Cisco network environment in a secure and efficient manner and indicate Proposer's experience in similar environments. Question: Assumption would be having the existing Cisco network acting as the backhaul for the CBRS coverage solution- please confirm.

Answer: Correct

52. **Question:** General: Understand that the Private LTE coverage solution is for outdoor coverage only and may have limitation on potential existing building structures for attachment. Question: Does the North Field perimeter/polygon are having existing light poles or existing legacy security camera poles where fiber connectivity and power already exists?

Answer: Yes

53. **Question:** What are the specific Buildings needing in-building coverage and any specific areas in these buildings that are important

Answer: No indoor CBRS is requested. Outdoor only via external antennas, then connect to switch inside the building.

54. **Question:** Have you identified any vertical asset (building, antenna towers, etc) that would be suitable for rooftop mounted equipment? Are there any concern securing FAA approval if these assets were used for a PLTE deployment?

Answer: Each building currently has a mounting pole where current hardware is deployed. Much of this may be suitable for the needs of CBRS since there is pathway existing into the building. No concerns at this time for PLTE.

55. **Question:** Do Monopoles fall within FAA-7460-1 regulations?

Answer: They could depending on height and location.

56. **Question:** Please provide additional detail around “proposer may be requested to manage the CBRS systems”

Answer: This will be discussed with the winning proposer. The Port would love a turnkey system that has a maintenance agreement to maintain the connection and do break fix when issues come up. If not realistic, the Port is willing to look at other options such as using a third party for local support.

57. **Question:** Are Network connections of 10 Gbps available for this project?

Answer: Yes

58. **Question:** Will the Port Authority provide the necessary switching infrastructure to support connectivity of the system into your network?

Answer: Yes

59. **Question:** Will the Port Authority provide appropriate IT resources for this project to ensure that connectivity, power, routing, internet, ports, and firewalls will be supported?

Answer: Yes

60. **Question:** What are the minimum throughput expectations? Uplink and Downlink?

Answer: Once a selected proposer is identified, we can have this discussion around current and future needs.

61. **Question:** If we intend to self-perform (i.e. not hire subcontractors), do we need to have a SBE policy?

Answer: No individual firm is required to have its own SBE policy. However, please submit Attachments 5D, 5A, 5B, and 6; so that our office knows with clarity that your firm intends to self-perform on this solicitation.

62. **Question:** What is the wage classification being identified for the purposes of compliance with the prevailing wage?

Answer: The prevailing wage determination for this project is 2023-1 and can be found at the following URL: <https://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. The specific classifications are subject to the scope of work that you perform. The specific work is defined as follows: construction, alteration, demolition, installation, or repair work done under contract and paid for in whole or in part out of public funds, For purposes of this paragraph, “construction” includes work performed during the design, site assessment, feasibility study, and other preconstruction phases of construction, including, but not limited to, inspection and land surveying work, regardless of whether any further construction work is conducted, and work performed during the postconstruction phases of construction, including, but not limited to, all cleanup work at the jobsite. For purposes of this paragraph, “installation” includes, but is not limited to, the assembly and disassembly of freestanding and affixed modular office systems.

63. **Question:** If the vendor is not utilizing small business enterprises and is self-performing, do we need to submit Attachment 5D, 5A, 5B, 6.

Answer: Please submit Attachments 5D, 5A, 5B, and 6; so that our office knows with clarity that your firm intends to self-perform on this solicitation.

64. **Question:** Is there existing back up power available?

Answer: Yes

65. **Question:** Are you considering the need for targeted indoor coverage in the future?

Answer: Not in Northfield, but possible for future projects around the airport.

66. **Question:** Will future use cases require 5G?

Answer: The Port would like an option of moving to 5G at some point.

67. **Question:** Will you require Priority Access Licenses (PAL) for better access to the CBRS spectrum?

Answer: The Port would like to see if we can qualify for PAL.

68. **Question:** Are there plans to replace any existing networking infrastructure in the future?

Answer: The Port is constantly updating and replacing network hardware as it come to the end of its support.

69. **Question:** Will you need 5G right away? How soon?

Answer: Not right away but would like to understand what will be needed to upgrade in the future.

70. **Question:** When would you need “future” use cases? Can you give more description of those?

Answer: Depending on the success of the Northfield project, the port will consider expanding to Southfield within 12 months. Uses cases are not entirely defined beyond the Northfield project.

71. **Question:** You mentioned this is a “RFQ” has this project been budgeted and is there a plan to make it a RFP? If so when would this be released? Is there budget in 2023 for this project? When do you expect this project to go live?

Answer: Due to the security nature of this project, the plan is to select and negotiate a design and cost with the winning proposer. We do not intend to publish an RFP. Yes, this project is budgeted. Late fall to wintertime frame.

72. **Question:** Are you open to PAL license on CBRS? Do you have access to this?

Answer: We are but need to understand if we would qualify.

73. **Question:** On a scale of 1 to 10 what is the “mission critical” aspect of your use cases. The reason for the question is to gauge expectations of network and spectrum.

Answer: Since this new network and intended to support security, a 10.

74. **Question:** For you immediate use cases. Remote CCTV cameras 2. Perimeter badge readers/gate controllers connected to the access control system 3. Door access controllers/badge readers 4. Additional airfield mobile connectivity. Can you please name the make and model of these models? If you don't know all of them (like additional airfield mobile connectivity) it's okay. The main reason for the ask is to understand if the use cases are able to run over 5G? We hope answer is yes but can support both 4G and 5G over CBRS. But good for us to know.

Answer: The default bandwidth that LTE provides will be adequate. The Port will want to have a discussion with the selected proposer on current limitations of both and the timeline to upgrade to 5G. This will help to manage expectations with the other operational departments of the airport.

75. **Question:** Commercial air terminal ramp areas, utilized for the loading and unloading of passengers, baggage and cargo, as well as other operations, such as aircraft maintenance and provisioning. (Will you need 5G immediately? And if so when would you envision needing this?) Any thoughts on timing of the potential future phases?

Answer: We do not believe we will be able to do 5G immediately, until it is allowed by FAA. Understanding the bandwidth gains and cost when moving to 5G will be discussed with the winning proposer.

76. **Question:** When would the port be interested in deploying a private network?

Answer: Late in the year to 1st quarter of 2024.

77. **Question:** You mentioned on the optional call on April 5th that you would share details on the trial you did? What equipment you used? Did I understand this correctly? If so, that would be great to know?

Answer: See answer to question 16

78. **Question:** Is there any private network currently in place at the port or the airport today?

Answer: We assume you mean private CBRS network, No.

79. **Question:** You are not asking for pricing in this RFQ correct?

***Answer:** No pricing at this time, just let the selection panel know through your proposal why your firm is the most qualified and best fit for the Port of Oakland\Oakland International Airport.*

80. **Question:** For the “monthly utilization of Local and small business enterprises”? Paper section. Is there someone I can ask additional questions on this? Specifically unclear on what “*LIABE Dollars” mean *LBABE Dollars mean, SBE Dollars, ETC.

***Answer:** While reporting the Monthly Utilization of Local and Small Business Enterprises, “LIABE Dollars, SBE Dollars, etc.”, are used to classify which allocations of a monthly payment were made to certified Local and Small Business Enterprises.*

The following questions will not be answered. The questions either are considered Sensitive Security Information (SSI) or are not needed in order to provide a Qualification. Details will be disclosed during the design phase with the selected proposer. At this time, we are only asking you to tell us why you are the best and most qualified vendor for the Port of Oakland.

1. Scope of Services - To For the perimeter badge readers / gate controllers and door access controllers / badge readers connected to the access control system, can you please provide how each of the above devices connect to the network today. Additionally, for each of the devices listed, what interfaces are available for connectivity. Please include both wireless technologies (i.e. Zigbee, SCATA, etc.) and wired (ethernet, serial, etc.).
2. Scope of Services - To be able to seamlessly manage the CBRS provisioned extensions of the Port network using existing Port network management systems, can you please provide the exiting port network management system details? This should include capabilities and system requirements for managing devices in the network.
3. Scope of Services - To For the immediate use case of CCTV cameras, can you please provide the make/model number and network requirements for each type of camera? This should include min/max data rates required for uplink and downlink as well as compression modulation used today.
4. General Services - What areas of the network have dark fiber? Is it possible to obtain a network map of dark fiber locations and/ or building terminations for access?
5. Area 1: North Field Immediate Use Cases - Are all Use Cases regarding CCTV Cameras, Perimeter Badge Readers. Gate Controllers, Access Control System, Door Access Controllers, Badge readers to include providing new devices, upgrade existing devices, or connect to existing devices? Can you provide the number of existing devices and device names / model numbers?
6. For the use cases supporting the external devices (cameras, readers, etc.), how are they currently connected to the network?
7. General Services - Is it possible to have a network map or an overview of the Cisco network referenced in the document?
8. What are the total number of devices and total required Downlink and Uplink throughput?
9. Need specific locations where CCTV cameras need to be installed to help engineer the design and be able to provide adequate throughput.

10. Area 1: North Field Immediate Use Cases - What is the demarcation point to connect to the existing Airport LAN?
11. Area 1: North Field Immediate Use Cases - Are there specific existing applications that are used with the devices specified in the immediate use cases? Please provide additional information regarding the existing applications, the use(s) and connectivity expectations?
12. Specific locations of where existing mounting structures are located and where fiber and power is available (rooftop, side of buildings, poles?)
13. On Scalability - Please define what Airport Properties and Port of Oakland Facilities are not included in initial design should be considered for the future.
14. Area 1.c.2 Please define areas where Dark Fiber is available
15. Will the Port require Geo-Redundant CBRS COREs?
16. Where will the CBRS CORE be located? Please provide location address.
17. What is the Port fiber plant location?
18. What are the locations of MDF and IDF locations? Is it possible to get those locations marked on floor plans and shared?
19. Where are network connections located. If network connectivity is not already in position to support the preferred designed, will the Port Authority add/move a connection?
20. What are the AP/CBRS radio preferred locations or it will be decided after Site Survey?
21. Specific areas needing cameras—or specific areas to place areas, Gates and door locations?
22. Any gates door badge controllers that could be implemented if connectivity provided?
23. How many devices and users will be connected during busy hour?
24. Please confirm existing fiber & AC power connections including locations.
25. Where are the IDF rooms located?

There are no other questions to RFQ No. 22-23/21.



Port of Oakland
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SIGN-IN/REGISTRATION SHEET

Non-Mandatory Pre-Qualification Meeting

RFQ 22-23/21 – Citizens Broadband Radio Services (CBRS) at Oakland International Airport

Date: 04/05/2023

Time: 10:00 A.M. (Pacific Time)

Location: Zoom Meeting – Virtual Pre-Qualification Meeting

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