BIRMINGHAM-SHUTTLESWORTH INTERNATIONAL AIRPORT

REQUEST FOR PROPOSAL (RFP)
ADDENDUM NUMBER ONE (1)
DATE: November 25, 2024

PROJECT: Design and Upgrade LAN Infrastructure and Wi-Fi Systems
Birmingham-Shuttleworth International Airport
Birmingham, Alabama

From: Birmingham Airport Authority (BAA)
5900 Messer Airport Highway
Birmingham, Alabama 35212

To: All Participants

General:

This addendum will form a part of the and modifies the original Request for Proposal (RFP) document. The following changes take precedence over items in the RFP. Any portion of the RFP not changed by this Addendum remains in effect. Recipients of the Addendum are advised to provide this Addendum to anyone to whom they further distribute without the BAA's knowledge.

Participants in this RFP are required to acknowledge receipt of this Addendum in their Proposal. Failure to do so may subject Proposer for disqualification.

ADDITIONAL INFORMATION/CLARIFICATIONS/DESCRIBED BELOW:

The proposal deadline has been extended until December 13, 2024, by 2:00 PM CT.

1. **Question: Do you want to reduce switch count and use VLANs?**
   Answer: Yes

2. **Question: Do you want to run new cable/fiber or use existing?**
   Answer: Use existing fiber/copper. Only new copper runs for new AP locations.

3. **Question: The LAN for the case includes which networks? Airport? TSA? Tenants?**
   Answer:
   1. BAA Corp
   2. FIDS
   3. PA
   4. Wi-Fi
   5. Baggage Maintenance
   6. Parking
   7. Camera Parking
   8. RFID

   *Crash Phone System that is in Exhibit 2 will NOT be included anymore. *

4. **Question**: **Is the addendum going to have the RFP to be able to bid for the fiber?**
   Answer: No

5. **Question: When does the RFP for the fiber aspect of this project will be coming out since that design/install needs to be executed first?**
   Answer: You will need to provide 1GB SFPs to support the current cabling infrastructure and include in your inventory 10GB SFPs to change over to once the SM Fiber is installed.

6. **Question: Do you have a network topology map or floor plan identifying the current MDFs and IDFs?**
   Answer: We do not have a network topology map, but we do have a map to identify the IDFs.

7. **Question: Regarding the current LAN and WLAN assessment, are you willing to pay for time and materials to complete the evaluation?**
   Answer: No. If required, should be included in your proposal.

8. **Question: For the Wi-Fi Design & Upgrade, are you looking to stick with the Watchguard brand for your wireless access points (WAPs)?**
   Answer: No

9. **Question: Do all closet connections come back to a main location?**
   Answer: They are not all home runs, however they come through one of the two other main closets and then back to T-1522. Which is the source of all of our networks.

10. **Question: Pages 13 and 14 show closets by name and/or closet Room#. Is that correct to assume each Row with number and/or name is a separate physical location?**
    Answer: Yes, except for the 3 1522 rows. That is all one physical location.

11. **Question: What are the expected uplinks on closets to core?**
    Answer: 10G

12. **Question: Do the closets run fiber connections between floors?**
    Answer: There are several areas where fiber connections run between floors

13. **Question: Do the current FG firewalls provide security for ALL traffic no matter what the VLANs? If so, is the Security posture different per VLAN (Type, Vendor, Use, etc)? If not, are the VLANs segmented out?**
    Answer: NA

14. **Question: The WatchGuard and Mist APs…. are they controlled by a controller on-prem or in the cloud? Do any of these use FW as a controller?**
    Answer: NA

15. **Question: Do you believe that 802.3bt POE requirements will be needed in the future? Are you planning on using 802.3bt APs to run in half power mode if not Plugged into 802.3bt capable switches?**
    Answer: Yes and yes

16. **Question: In order to meet the 802.3bt power requirements are multiple switches allowed to increase the ports or is a single switch with more than enough ports allowed?**
    Answer: Either of those design options would be entertained

17. **Question: Switch controllers: Preferred on-prem, Cloud or either or?**
    Answer: Either

18. **Question: What is the current Interconnection bandwidth size on the connection coming into BAA now? Is this enough now? b.Either/Or pertaining to 12a will it be upgraded in the future?**
Answer: NA

19. **Question**: **Does BAA currently use User-ID for FW traffic identification? If so, is this via Active Directory or some other authentication application. If not using Active Directory, please advise on the authentication application?**
Answer: NA

20. **Question: Any requirements for the Guest network? Traffic shaping, URL filtering, session timeouts, IPS, scanning, etc?**
Answer: This can be discussed with the chosen provider

21. **Question: Concerning the current FortiAnalyzer is that a Virtual Machine or an appliance?**
Answer: NA

22. **Question: Is there a way the wireless survey can be shared?**
Answer: Yes, we will share the results with this addendum

23. **Question: Please confirm that there are a total of 24 separate wiring closets (from Exhibit 2, and counting 1522-1.05, 1522/main data center, and 1522-1.04 as one physical closet).**
Answer: There are 25 total closets and that includes the DC (T-1522).
In the updated Exhibit 2 a missing closet was added (T-1118)

24. **Question: Please confirm that all 23 remote wiring closets are to be directly connected to the main wiring closet over fiber.**
Answer: See question 9

25. **Question: Some of the wiring closets only have one 10 gigabit uplink port specified. Confirm that this means that those wiring closets will not have redundant connections to the network core.**
Answer: No, that is just what is currently in use. There are open pairs available for redundancy.

26. **Question: Please confirm that none of the existing Aruba/HPE switches will remain—all existing switches to be replaced.**
Answer: That is correct, all existing switches will be replaced.

27. **Question: Please confirm that we can use the existing patch cables that currently connect the existing switches to the wire management, and that no new patch cables or wiring needs to be done to replace the old switches with new switches.**
Answer: Yes, we will use existing patch cables to the switches.

28. **Question: Confirm that you will provide the fiber jumpers between the WICs and the switch ports—or tell us that we need to provide the jumpers.**
Answer: You will provide jumpers

29. **Question: Confirm that the connectors in the fiber WIC's are LC**.
Answer: Yes, they are LC

30. **Question: Has a formal wireless design for the existing wireless and the 22 new wireless access points been done? Can we see that design?**
Answer: See question 22

31. **Question: Do you just want to replace the existing wireless access points with new wireless access points on the same network drops and then add 22 more internal access points to the 55 internal access points? The figures in your RFP on the access points do not agree.**
Answer: Yes, that is correct. 77 total.

32. **Question: Do you have any usage metrics or performance requirements for each access point location (required number of simultaneous connections active)?**
Answer: No

33. **Question: Do all access points get installed at ladder height? if not, how many will need a lift to replace an existing access point or install a new one? If a lift is needed, will you provide that lift?**
Answer: Many locations require a lift, and we will provide one.

34. **Question: Confirm that all wireless access points and other devices that need to communicate at speeds above 1 GBPS have a Cat6E drop. If not, do you want those existing drops to be replaced? If so, estimate the number of existing drops that will need to be replaced with new Cat6E drops. Or assume that the existing Cat6 drops serving the new access points will only be capable of 1 GBPS Ethernet.**
Answer: We will use the existing cable drops at the existing Access Points.

35. **Question: Can we assume that the new drops to connect the new wireless access points will be installed above drop ceilings and attached to support structures and not need conduit or Panduit?**
Answer: That is correct. New runs will not need conduit or Panduit.

36. **Question: Do you plan to operate the new network on your own after the training, or use external managed services to do that for you?**
Answer: On our own

37. **Question: How many internal (Birmingham employee) total users do you have? Any expected growth? (this to be used to size the NAC)**
Answer: 125-150

38. **Question: How many years of manufacturer support do you want proposed on the switches and access points?**
Answer: 3 years

39. **Question: What are the makes and models of the current firewalls?**
Answer: Fortigate 400f

40. **Question: Does BAA currently have a NAC today?**
Answer: No

41. **Question: Does BAA want their equipment to be Wi-Fi Certified?**
Answer: To be discussed with chosen provider

42. **Question: Does BAA need proposed solutions to be TAA certified?**
Answer: No

43. **Question: Does the organization have an estimated coverage area (in square footage) for the wireless deployment?**
Answer: No

44. **Question: Regarding the Wireless Site Survey, who conducted the survey? Can bidders receive a copy of the Wireless Site Survey?**
Answer: See question 22

45. **Question: In the RFPs Section Wi-Fi Design & Upgrade, it is mentioned that "BAA has conducted a Wireless Survey, the results of which can be provided and used to facilitate the redesign." How can we obtain a copy of the Site Survey?**

Answer: See question 22

46. **Question: Line: 1522 Core Main Data: Total ports says 17 but total 10Gig ports says 41 on the same row. So, should the 17 number be higher?**

Answer: I understand the confusion; 17 is the current copper count for that headend rack in 1522. 41 uplink SFPs will be the new count to be included in the new design for that headend rack (1522-CORE Main Data)

47. **Question: Also, the 3 lines with 1522, I'm assuming they are all in the same area or these are rows/racks in the same closet. Beverly, you probably explained it during the walkthrough, but I was probably at the back of the line when you were explaining it all. Just want to know if these should be treated as separate or together as in 1(one) 24 port POE++ switch could cover the 18 total POE++ ports?**

Birmingham Airport Authority		Total Ports	Total POE Ports	Total Mgig Ports	Total 10-Gbps Uplink Ports	Total POE+ 802.3at (30w/port)	Total UPOE/POE++ 802.3bt (60W/Port)
Closet							
1522-CORE Main Data		17	7	7	41		7
1522 - 1.05 Main Data		82	76	10	2	66	10
1522 - 1.05 Main Data		10	2	1	1	1	1
T-1809		36	18	6	2	12	6

Answer: All together as one.

48. Question**: If a bidder was not able to attend the pre-bid meeting, are they still able to bid?**
Answer: No

49. **Question: Is there an estimated budget range for this project that can help tailor the proposal?**
Answer: No

50. **Question: What is the desired timeline for deployment and completion?**
Answer: Include your estimated timeline in your proposal.

51. **Question: Can you provide floor plans of the areas in scope?**
Answer: Yes

52. **Question: What are the ceiling heights and wall materials for the areas in scope?**
Answer: See Wi-Fi Site Survey

53. **Question: Are there any pictures or descriptions of the ceilings for the installation areas?**
    Answer: No

54. **Question: Is there a preferred/required vendor for the APs?**
    Answer: No

55. **Question: Do the APs need to be hidden or camouflaged for aesthetic purposes?**
    Answer: No

56. **Question: Do network cables need to be placed in conduit?**
    Answer: No

57. **Question: Can you provide the model numbers for routers, switches, and other relevant hardware?**
    Answer: NA

58. **Question: Can you provide details on the current LAN/Wi-Fi configuration, including layer-3 routing, VLANs, and network segmentation?**
    Answer: No. What we have should not be considered because we are changing all hardware.

59. **Question: Who will be the primary users of the Wi-Fi network (e.g., public, employees, vendors)?**
    Answer: To be discussed with chosen provider

60. **Question: What is the estimated number of users and devices expected to connect to the network?**
    Answer: Give or take 1000 users at a time

61. **Question: What types of devices will be connecting (e.g., smartphones, laptops, tablets)?**
    Answer: All device types

62. **Question: Are there high-density areas that need specific consideration?**
    Answer: Yes, most areas will require high-density Access Points

63. **Question: What are the expected data throughput and latency requirements?**
    Answer: To be discussed with chosen provider

64. **Question: Are there specific environmental or structural challenges that could affect the deployment (e.g., buildings, trees)?**

Answer: Reference Wi-Fi site survey

65. **Question: Are there additional features or capabilities desired, such as usage analysis or content filtering?**
    Answer: To be discussed with chosen provider

66. **Question: What is the current ISP? What are the current speeds?**
    Answer: NA

67. **Question: What are the expectations for support and maintenance services, including expert-level support?**
    Answer: Support for 3 years.

68. **Question: Could you provide details on current issues with the existing system that the upgrade should address?**
    Answer: Need to bring our infrastructure up to date. Currently no VLANs, no Layer 3, multiple wireless controllers, and not enough coverage for Wi-Fi.

69. **Question: Are TAA-compliant equipment and materials a requirement?**
    Answer: See #42

70. **Question: Can submittals to this RFP contain more than 25 pages?**
    Answer: No

71. **Question: Due to critical operations of the airport. What hours of the day will the awarded vendor be allowed to perform the upgrade work?**
    Answer: There are some tasks for this project that will need to be completed after hours (after last flight), but a majority of this project can be completed during regular business hours.

72. **Question: Based on the RFP, it looks like this project will be consolidating multiple standalone networks, into a single network infrastructure separated by VLANS. Are there any IP address overlap existing today?**
    Answer: No.

73. **Question: The RFP states the requirements for 10Gbps uplinks. During the site survey there was a considerable amount of 62.5 multimode fiber that does not support 10Gbps. How do vendors need to handle this requirement?**
    Answer: See #5.

74. **Question: During the site survey, it was stated that there will be a fiber project to replace the legacy 62.5 multimode fiber with OS2 Singlemode fiber. For the**

purpose of our response, should we assume that all uplinks will be OS2 Singlemode fiber and quote capable Singlemode SFP optics on all uplinks?
Answer: See #5

75. **Question: Is the Airport authority expecting the completed project to have a redundant Layer 3 core?**
Answer: Yes

76. **Question: If so, which closet on the spreadsheet will the Layer 3 core devices be installed?**
Answer: See exhibit #2 to identify our MDF

77. **Question: Does closet where the redundant Layer 3 core will be installed reflect the correct number of uplinks required to provide redundant fiber paths to each closet from the core on the spreadsheet?**
Answer: Redundant core switch will reside in the same location as the primary core switch

78. **Question: Does the remote closets reflect the correct number of uplinks required to support redundant fiber connections?**
Answer: No, that is our current count, but each closet can support redundant fiber connections

79. **Question: Can the Airport Authority provide a copy of the proposed fiber design, so that vendors can provide validate the number of SPF optics and uplinks required to match the proposed fiber project?**
Answer: No, please see the answer to question #5 pertaining to the separate fiber project and how it relates to this project. # SFPs will not change once we implement our single mode fiber project.

80. **Question: It was stated that pricing must be submitted on the pricing template. Is the pricing template the same spreadsheet that outline closet locations and port requirements? If so, can you provide a sample of the format that the Airport Authority is expecting in submittals?**
Answer: That was a miscommunication. No need for pricing to be laid out in a certain format or use a certain template.