



GOVERNMENT OF BERMUDA

Code

The Premier's Office

Department of Information and Digital Technologies

Modifying a Payment Gateway Open-Source

Addendum #1

08 April 2022

Dear Respondents,

The following Addendum supersedes the information contained in the RFQ to the extent referenced.

This Addendum forms part of the RFQ documents and will be subject to all of the conditions set out in the contract conditions.

Addendum #1 contains five (5) pages.

Part 1 Invitation and Submission Instructions

Bidder's Questions (Q) and Government's Responses (R).

- Q1. Is the Government looking to use the open-source code or is there an option to build the required functionality using other programming languages?
- R1. Vendors can provide an option to build the required functionality using other programming languages.
- Q2. Will government provide the Cryptocurrency vendor, First Atlantic data, and Authorise.net API /Account Information?
- R2. Government will provide all available details to the winning quote. The Government seeks a code to accept cryptocurrency. Details of wallets available in Bermuda is included in the following link: <https://www.smartbitcoininvestments.com/buy-bitcoin-in-bermuda/>.
- Q3. Will government provide the account id for Worldpay, stripe, smartpay and Epdq as well?
- R3. The Government does not have accounts with Worldpay, Stripe, Smartpay and Epdq. These codes do not need to be changed.
- Q4. Once we have these API integrated with the UK Open-source code is LIVENet/Fortknox in charge of integrating to each department/application or LIVENet to provide the middleware with API?
- R4. The vendor will not be required to integrate solution in each department.



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Q5. Will government provide the sign-in information for the below link, since it only allows account creation using a government email address?
<https://selfservice.payments.service.gov.uk/create-service/register>.

R5. The link provided is for UK government organisations.

Q6. "Settle Pre-Authorised Payments so that the funds are withdrawn from the client's account". We are assuming that accounts you are referring to are indeed credit/debit card accounts and nothing further, i.e., settlement options provide by noted gateways only?

R6. Yes, that is correct.

Q7. Is direct debit offered by any of the gateways (FAC)?

R7. No.

Q8. Does the Bda Government have an existing infrastructure for direct debit and, if so, can this be leverage. Note, there is no common ACH like protocol for Bermuda Banks, so direct debit requirements can extend scope significantly.

R8. The Government of Bermuda has an online infrastructure for direct debit in the form of bill payment of Government fees through on-line banking system, and debit cards are used through the Visa or MasterCard network.

Q9. Which of the payment mediums as shown on the UK portal are expected to be implemented?

R9. Payment mediums can include Worldpay, Smartpay and Epdq. The key objective for this RFQ is to build API links that can be dropped in any platform.

Q10. The system will provide...Bda Government with the necessary functionality to: points 1, 2, 3 & 4. There functions are normally provided in a robust payment gateway product, particularly point 4. Are we assuming that modifications are required to allow for 2, 3, and 4 to be performed within the Gov. UK Payment services software, or they exist already? For clarity, is there further requirements for modification of the UK payment systems software other than pure API development. If so, can you in more detail specify those requirements.

R10. The Government gateway will provide these features. However, we are only requesting from vendors API functionality and not to include a robust payment gateway product.

Q11. Can you provide details on settlement window(s) the Bda Government deploys or will deploy for this system; and requirements for reconciliation of intra-system values.

R11.



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- Q12. Can you explain in more details the requirements to accept Crypto and any additional requirements in accepting Crypto and holding Crypto. Is this a first Phase requirement or a future requirement. Does the Bda Government have the necessary secure systems and related protocols around Crypto acceptance and management in place (gateways); and particularly in relation to the right security systems and protocols or has/will the Bda Government outsource this to a third-party (gateway) requiring another integration, if not currently available in requested gateway integrations. Can you expand whether this is in scope or out of scope and, if in scope, please provide more details of your requirements around Crypto acceptance and management. We are, of course, assuming this initially is not in scope?
- R12. The Government of Bermuda is seeking a code for cryptocurrency payments that aims to ease crypto transactions between holders, crypto wallets, exchanges, and merchants, similar to Coinbase (<https://commerce.coinbase.com/>) or WooCommerce. This could be a future phase requirement under the contract once the core code is established. The Government has the necessary secure systems.
- Q13. As it relates to JD Edwards, will this be a boiler plate integration, or have there been extensive modifications to the Government's JD Edwards Enterprise system that will require involvement of the Government JD Edwards consultants. Can you provide more details on the nature of this integration? As the UK portal's implementation would appear to be cross departments, can you please provide more details on how this is envisioned to be implemented internally and the availability of necessary internal resources to adequately plan for an efficient implementation in Bermuda? Is a phased implementation envisioned (department by department) or otherwise? How are we to incorporate this dynamic in our RFQ?
- R13. The objective of this is to facilitate reconciliation within JD Edwards. This could be a unique identifier for each transaction and being able to connect to the Orchestrator module in JD Edwards.
- Q14. Support for the maintenance phase. It is not clear what's meant here. Are respondents expected to maintain the entire payment systems or just the modifications put in place? There is mention of "Supporting current operating systems, runtime environments like JVMs and Browsers, and integrating security fixes". Can you please make clear the responsibilities and any costs attributable to respondents? Will the environments not be hosted and maintained by the Bermuda Government?
- R15. The vendor is expected to assist with patches to codes within our operating systems. The environments will be hosted and maintained by the Government of Bermuda.
- Q16. In terms of maintenance upgrades to be necessary due to requested changes of third-party API's, i.e., gateways or JDE. How are they to be incorporated into the maintenance aspect required under this RFQ? Does the UK Gov provide upgrades to this payment system, or is it



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expected that, as open-source code, no further reliance will be made on their upgrades, if any? How will these be handled? As separate projects outside of maintenance and therefore requirement for additional projects/billings.

R16. The vendor will advise, where appropriate, updates that would be needed. If there are updates, this could be included under the hour rates.

Q17. Will remote access be permitted and, if so, what are the related protocols?

R17. Yes remote access will be permitted.

Q18. Does Bda Government have access to UK technical resources, if required?

R18 The Government of Bermuda has limited access to UK technical resources.

Q19. Do you have specific SLA standard(s) you expect to be incorporated into responses. Can you provide for clarity and hence our ability to provide more accurate costs

R19. No.

Q20. Does this payment gateway code have any sort of high level architecture or process document?

R20. Only information contained in the package provided by the UK pay is available.

Q21. It seems that payment gateway code is written in java. Does it also use languages like php, go and ruby on rails?

R21. All codes are included in the link: <https://github.com/alphagov?q=pay->.

Q22. Does payment gateway code have any infrastructure dependency like aws or azure?

R22. No.

Q23 What database does this application use?

R23. The most low-level way to accessing databases in Java, is through the JDBC API (Java Database Connectivity). Please note that the codes are not only in Java, and vendors can use any popular databases such as Oracle, MySQL, and Microsoft SQL Server.

Q24. What is the existing functionalities available on the payment gateway and what extra enhancements are required?

R24 The existing functionalities are basic and include credit card processing. Enhancement required in the long term include: a robust API functionality, seamless Integration across all



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platforms, commerce analytics and reporting, and a merchant interface for payments (A Merchant Interface that allows users to manage transactions, configure account settings, view account statements, and generate reports). Please note the long-term enhancements are not required under this RFQ. Vendors may want to quote separately for long-term enhancements.

- Q25. This solution is to do online payments for govt collections, how many government merchants are onboard?
- R25. The Government primarily uses HSBC and related systems such as GlobalPay for collections. In addition, the Government also uses Autorise.net, FAC and Plug n' Pay.
- Q26. Is there a requirement to do a detailed scoping of the govt entities and drafting requirements for the payment gateway solution for collections and settlement before implementing the solution?
- R26. There is not a requirement to do a detailed scoping.
- Q27. Does the scope only cover modifying the code for enhancing user experience and adding other payments modes or do we need to re-do the complete source code by defining new requirements?
- R27. The scope only covers modifying the code for enhancing user experience and adding other payments modes.
- Q28. Is the Government of Bermuda in contact with the UK team who authored the documentation for ease of implementation?
- R28. The Government of Bermuda has limited contact with the UK team and can facilitate contact with the team.
- Q29. What is the budget expectation for this endeavor?
- R29. Details of the budget cannot be provided.

END OF ADDENDUM #1

Note: Amendment/addenda will be posted at <https://www.gov.bm/procurement-notice>. Respondents should visit the Government Portal website on a regular basis during the Procurement process.