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Request for Proposal (RFP)

Android POS Application Development

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REVISION HISTORY

Version	Changes Incorporated	Date	Author	Reviewed By
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1.1	Based lined version	30/06/2022	Khenes Kuria	Ajay Surana & Vivek Taneja

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2 BACKGROUND

NTT is one of the largest ICT* companies worldwide with 150+ year heritage of innovation. Ranked one of the world's most valuable brands, it is the holding company for all NTT businesses worldwide, including NTT DATA.

NTT DATA is a top 10 global business and IT services provider with business operations in more than 50 countries and regions. NTT Data was established in 1967 as the IT services arm of NTT and became a public company in 1995.

Atom Technologies was Incorporated in 2005 and provide end to end payment solutions through both online and offline platforms. In year 2018, NTT Data acquired Atom Technologies. In Apr-2022, Atom technologies was renamed as NTT DATA Payment Services (NDPS)

NTT DATA Corporation is a top 10 global system integration company with HQ in Japan (Tokyo). It has developed and being managing mission critical payments infrastructure in Japan for the last 30 years. Group has a pan ASIA presence with respect to payments.

3 OBJECTIVE

NTT Data Payment Services, hereinafter referred to as the NDPS is in process of procuring Ingenico Android Point of Sale (POS). For this purpose, NDPS invites technical and commercials bids from the POS payment application development partner who can develop the application which will fulfill NDPS' requirements.

The POS payment application shall have the following options available or to be customized as per the requirement of NDPS.

- 1) Types of POS transactions followed in the payment industry.
- 2) Types of QR transactions followed in the payment industry.
- 3) Types of digital/wallets transaction (third party integration model) followed in the payment industry.
- 4) ECR/billing integrations

4 DEFINITIONS

In this RFP the following terms shall be interpreted as indicated:

- 1) 'NDPS' means NTT Data Payment Services
- 2) "Card" means credit card or debit card or any other card i.e., contactless smartcard as per ISO 14443 Type A / B issued by an Issuer.
- 3) "Card Organization" includes VISA, MasterCard, RuPay and any other card organization offering credit, debit or any other card programme to Issuers.
- 4) "Issuer" means a licensee of a Card Organization issuing a Card.
- 5) "Merchant" shall mean an individual or entity that engages in, or desires to engage in Card Transactions with its customers.
- 6) "Partner" is the successful Bidder/Respondent whose technical bid has been accepted and whose price as per the commercial bid is the lowest and to whom notification of award has been given by NDPS.
- 7) In case of a difference of opinion on the part of the Bidder in comprehending and/or interpreting any clause / provision of the RFP Document after submission of the RFP, the interpretation by the NDPS shall be binding and final on the Bidder.

5 DISCLAIMER

- 1) The information contained in this Request for Proposal (RFP) document or information provided subsequently to bidder(s) or applicants whether verbally or in documentary form by or on behalf of NTT Data Payment Services (NDPS), is provided to the bidder(s) on the terms and conditions set out in this RFP document and all other terms and conditions subject to which such information is provided.
- 2) This RFP is neither an agreement nor an offer and is only an invitation by NDPS to the interested parties for submission of bids. The purpose of this RFP is to provide the bidder(s) with information to assist the formulation of their proposals. This RFP does not claim to contain all the information each bidder may require. Each bidder should conduct its own investigations and analysis and should check the accuracy, reliability, and completeness of the information in this RFP and where necessary obtain independent advice. NDPS makes no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this RFP. NDPS may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this RFP.
- 3) This is not an offer by the NDPS but only an invitation to bid in the selection process initiated by the NDPS. No contractual obligation whatsoever shall arise from the RFP process until a formal contract is executed by the duly authorized signatory of the NDPS and the Bidder.

6 INTRODUCTION

6.1 GENERAL

- 1) NDPS is looking to Design, development, integration & implementation of POS payment application.
- 2) NTT Data Payment Services invites bids from eligible bidders for POS payment application development.
- 3) The selected Partner should provide solution in its entirety and shall also assist to complete the requisite certifications from VISA/MasterCard/NPCI or any other scheme, Network, payment security body or local body and support these certifications during the contract period.

6.2 BROAD SCOPE OF WORK

- 1) NDPS is looking to Design, development, integration & implementation of Android POS payment application on Ingenico DX 8000.
- 2) The application shall be 2 layered frameworks.
 - a. Base application shall be the payment/core application.
 - b. And a business application which shall interact with payment/core application.
 - c. The business application shall control the entire payment application.
 - d. The business application shall be integrated with any third-party applications.
- 3) The application shall support all the major schemes VISA, MasterCard, Rupay, DFS/Dinners, JCB & CUP.
- 4) The application shall support all the transaction types (for e.g., sale, void, reversals etc.) for card based and QR.
- 5) The application shall support all card entry modes as per the PCI standards.
- 6) The application shall be required to integrate with NDPS' host on 1987 version of ISO 8583 but also upgradeable to latest versions.
- 7) The application shall be required to integrate with NDPS' host for parameter management of payment application, third party or wallet applications.
- 8) The application shall be required to communicate to OEM's application and parameter management and other modules.
- 9) The application shall be capable of integrating with any third-party or wallet based on Android application. This third party/white label application shall be capable of downloading to terminal through NDPS secured application store.

- 10) The application shall be capable of integrating with ECR or billing application through various modes.
- 11) The application shall communicate with NDPS host over all modes viz. GPRS, LAN, Wifi.

6.3 DELIVERABLES

- 1) The complete POS application package which shall be loaded on the POS terminal.
- 2) The remote downloading application package which can be uploaded onto OEM's application management.
- 3) The application shall be capable of PCI certified key management (TMK or DUKPT)
- 4) The application should be capable of remote diagnostic enabled.
- 5) The applicable and parameter shall be managed remotely through OEM's.
- 6) The full source code of final application shall be handed over to NDPS.
- 7) Partner shall assist in scheme POS certifications with schemes.
- 8) Partner shall hand over the full design, technical, internal and external API specifications, functional and including source code documentations along with knowledge transfer and training.
- 9) The application should be passed through quality process like SonarQube CICD Junit.
- 10) The application should be passed through performance, stress and security testing

6.4 RESPONSIBILITIES OF NDPS

- 1) SDK procurement from OEM.
- 2) NDPS host specifications for integrations.
- 3) NDPS host availability for development and system integration testing.
- 4) Provide the necessary connectivity with the Card associations (VISA/MasterCard/NPCI or any other) for POS certifications.

6.5 RESPONSIBILITIES OF BIDDER

- 1) As per the section 6.2 and 6.3
- 2) Guide NDPS for any additional information.
- 3) Post-production support for 6 months.

- 4) Bug fixes postproduction implementation for 8 months.
- 5) Implementing change requests.
- 6) Application test results (test cases, SonarCube, certifications)
- 7) Bidder shall support in delivery inspection process of NDPS.
- 8) Application source code shall be submitted into the code repository of NDPS.

7 SUBMISSION OF BID

- 1) Each Bid should be in two parts:-
 - a. **Part I** covering the **Technical and Masked Price Bid** (i.e. BOM without any price) and hereinafter referred to as "**Technical Bid**".
 - b. **Part II** covering only the Indicative price schedules hereinafter referred to as the "**Price Bid**".
 - c. The two parts should be mailed separately, each subjected with the name as follows:-
 - i. RFP|POS APP DEV|TECHNICAL BID
 - ii. RFP|POS APP DEV|PRICE BID

NOTE: *Technical Bid and Price Bid submission format can be adapted by bidder.*

8 DEADLINE OF SUBMISSION OF BIDS

Bids must be received by the NDPS at the following email address no later than the **8th July 2022 & 2259hrs**

- a. ajay.surana@atomtech.in
- b. Khenes.kuria@atomtech.in

9 LATE BIDS

Any Bid received by NDPS after the deadline for submission of Bids prescribed, will be rejected, and not considered for selection process.

10 MODIFICATION AND WITHDRAWAL OF BIDS

- 1) The Bidder may modify or withdraw its Bid after the Bid's submission, provided that written notice of the modification, including substitution or withdrawal of the Bids, is received by the NDPS, prior to the deadline prescribed for submission of Bids.
- 2) The Bidder's modification or withdrawal notice shall be emailed, no later than the deadline for submission of Bids.
- 3) No Bid may be modified after the deadline for submission of Bids.

11 EVALUATION CRITERIA

The objective of evolving this evaluation methodology is to facilitate the selection of the most cost-effective solution that appropriately meets the business requirements of the bank. The bid would be first evaluated on technical soundness and then on the financials.

The bidder needs to cover the SoW as given in the RFP. All bids shall be evaluated by an Evaluation Committee set up for this purpose by the NDPS.

12 PROJECT TIMELINES

The timelines of implementation of the project shall be submitted along with the tender submission in the following format.

Sr.No	Activity	Days Required
1	Design Document	
2	Functional Specifications Documents	
3	Core payment application Development	
4	Business application development	
5	API developments (internal and external)	
6	Source code documentations	
7	Source code training	
8	Integration with NDPS host	

NOTE : Any other activities to be factored can be added by the bidder.

13 NDPS' RIGHTS

The NDPS reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids at any time prior to contract award, without thereby incurring any liability to the affected Bidder or Bidders, or any obligation to inform the affected Bidder or Bidders of the grounds for the NDPS' action.