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**NTT DATA, Inc.**

**Change Order**

**Cresta – A Predictive Analysis Tool for Predicting Software Quality.**

**Sep. 1st, 2016**

**Contract Number: CW626732**

**Business Unit: GWIM Security Frameworks**

**Project Value (Not to Exceed): $0**

# SOW Change Request Form

*Each of us agrees to modify the referenced SOW (***PR19309268***) and any applicable terms as follows:*

* Change Number: CR 01
* Project Name: Cresta – A Predictive Analysis tool to predict software quality.
* Description of Change:Building a software tool as a proof of concept, to predict software quality.
* Following are the critical milestones and/or deliverables for this SOW:

1. **Critical Activities :**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Description** | **Duration** | **Date** |
| 1 | * 1. Generation of overall Architecture to create a unified database.   2. Identifiying key Quality metricies and demonstrating basic Analystics for those matrices.   3. Preparing a basic POC for predicting the indentified matrices post release | 10 days  5 days  15 days | 08/09/2016 – 13/09/2016  12/09/2016 – 17/09/2016  17/09/2016 – 07/10/2016 |
|  |  |  |  |
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1. **Deliverables :** The following will be delivered as a part of the SOW
   1. Basic Architecture diagram with all relevant details.
   2. Basic working POC demo of key matrices and related Analytics.
   3. Basic working POC demo of key matrics predictions.

(C )**Pre-requisites :**

* 1. Basic Schema document for various data sources. ( TFS, SEM app inventory or any other data source).
  2. ETL scripts from previous project.
  3. Requirements doc from the previous BoA project.
  4. Existing defect matrix or an exit criteria document.
  5. Modules and product data information (list) to predict which modules may have problems.
  6. Key Matrics list to demo analytics and predictition capability.
* \*Based upon above established acceptance criteria, if Consultant is unable to meet the criteria, then the NTT DATA team will provide an estimate effort to complete and normal change management procedures will be followed.
* **SOW Charges for Services :** $0
* *(Time and Material)*
* *The hours authorized by Bank of America and specified below do not imply or commit a fixed-price contract. If Consultant determines that it is necessary to exceed the hours or the Estimated End Date, Consultant will inform Bank of America as soon as practical. In such event, Bank of America may authorize additional hours or extend the Estimated End Date in writing. If Bank of America alternatively choose to terminate the Services, Bank of America agrees to pay Consultant for actual hours expended and any actual travel and living expenses (incurred by Consultant) through the termination of the SOW.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Rate Card Position** | **Supplier Position** | **Estimated Hours** | **CSA Hourly Rate ($/hr)** | **Engagement Rate ($/hr)** | **Total Fees** |
| Manger |  |  |  |  |  |
| Consultant |  |  |  |  |  |
| Programmer |  |  |  |  |  |
| Senior Programmer |  |  |  |  |  |
| Domain Developer |  |  |  |  |  |
| Project Manager |  |  |  |  |  |
| Database Administrator | NTT DATA | 0 | $0 |  | $0 |
| Product Specific Technologist |  |  |  |  |  |
| **Total project hours** | | | | | 0 |
| **Total charges for services: Not to exceed** | | | | | $0 |
| **Total charges for travel and expense: Not to exceed** | | | | | $0 |
| **Total charges for services AND travel and expenses: Not to exceed** | | | | | $0 |
| ***Total below rate card (if applicable)*** | | | | | $0 |

* **Total Professional Fees: $0**
* Charges for Travel and Living Expenses: $0
* In addition, Bank of America will reimburse Consultant in accordance with the Agreement for any actual travel and living expenses (incurred by Consultant) in providing these Services, currently estimated at **$0**, that have been pre-approved by Bank of America in writing.
* Total fees of the SOW and all Change Orders to the SOW shall not exceed $426,600 (including travel and living expenses) without and approved change order signed by Bank of America Supply Chain Management.
* Requested by: Vivek Sharma
* Date Requested: 8 Sep. 2016
* All other terms and conditions of the SOW will remain unchanged.

*Response:*

**Schedule:**[08/09/2016 – 10/09/2016]

**Client / Customer Data Access**

Will the Consultant have access to any Bank of America customer or client data as a part of this engagement? Yes – NTT resources will be accessing GWIM SF Data framework

**Required Capabilities**

The following are the critical capabilities required for this CR:

Capability 1 Middleware Development

Capability 2 Domain Expertise

Capability 3 Technology Delivery and Architecture

Total fees of this Change Order shall not exceed agreed initial SOW budget of TCV $415,400 (including travel and living expenses) . I thought expenses were above the $415,400 without and approved change order signed by Bank of America Supply Chain Management.

Total fees of the SOW and all Change Orders to the SOW shall not exceed initial SOW budget of TCV $415,400 (including travel and living expenses) without and approved change order signed by Bank of America Supply Chain Management.

Consultant must obtain written approval in a Statement of Work/Change Order from Bank of America Supply Chain Management prior to engaging a Subcontractor. Consultant shall provide to Bank of America’s Supply Chain Management Division the name, address and any other pertinent contact information for such an approved Subcontractor.

Each of us agrees that the complete agreement between us about these Services consists of 1) this Change Request, and 2) the referenced SOW, and 3) the Agreement.

*Agreed to: Agreed to:*

**Bank of America, N.A. NTT DATA**

By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Authorized Supply Chain Management Signature Authorized Signature

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| --- | --- | --- |
| Bank of America: |  | Consultant: NTT DATA, INC |
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Reference Bank of America Agreement Name / Number: **PR19309268**

Reference Consultant Agreement Number: **CW626732**