



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:

(A) Critical Activities :

No.	Description	Duration	Date
1	<ul style="list-style-type: none"> a. Generation of overall Architecture to create a unified database. b. Identifying key Quality metrics and demonstrating basic Analytics for those matrices. c. Preparing a basic POC for predicting the identified 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

(B) Deliverables : The following will be delivered as a part of the SOW

- a. Basic Architecture diagram with all relevant details.
- b. Basic working POC demo of key matrices and related Analytics.
- c. Basic working POC demo of key matrices predictions.

(C) Pre-requisites :

- d. Basic Schema document for various data sources. (TFS, SEM app inventory or any other data source).
- e. ETL scripts from previous project.
- f. Requirements doc from the previous BoA project.
- g. Existing defect matrix or an exit criteria document.
- h. Modules and product data information (list) to predict which modules may have problems.
- i. Key Matrices list to demo analytics and prediction 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

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- **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:
Bank of America, N.A.

Agreed to:
NTT DATA

By: _____
Authorized Supply Chain Management Signature

By: _____
Authorized Signature

Bank of America:
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Reference Bank of America Agreement Name / Number: **PR19309268**

Reference Consultant Agreement Number: **CW626732**