



Amendment Approval Form

Contract Between:

Northrop Grumman Systems Corporation

7575 Colshire Drive
McLean, VA 22102-7508

and

The Commonwealth of Virginia

11751 Meadowville Lane
Chester, VA 23836

Contract Number	VA-051114-NG
Amendment Number	111
Description of Contract Change – Provide a brief description of contract change	Defines External Authentication Domain Service
Section(s) of CIA Referenced – Identify section(s) of CIA modified, including Attachments and Schedules	<ul style="list-style-type: none">• Appendix 6 to Schedule 3.3 (Messaging Services SOW)• Addendum 9 to Appendix 6 to Schedule 3.3 (External Authentication Domain Service Technical Approach)• Schedule 10.1 (Fees)

This is Amendment No. 111 to the Comprehensive Infrastructure Agreement between the Commonwealth and Vendor originally dated as of November 14, 2005 and as subsequently amended (hereinafter, "Amendment No. 111"). The Commonwealth and Vendor have agreed to modify the Comprehensive Infrastructure Agreement as set forth below. Except as expressly modified in Amendment No. 111, the terms and conditions of the Agreement shall remain in full force and effect. Capitalized terms used but not defined in Amendment No. 111 shall have the meanings assigned to them in the Agreement.

1. In Appendix 6 to Schedule 3.3 (Messaging Services SOW), a new section is added to the end of Section 3.0 as follows.

"3.12 Other Messaging Services

A. External Authentication Domain Service

Vendor will install, configure, support, and maintain an enterprise-level external authentication domain service in accordance with the technical approach to permit Eligible Customers' applications to authenticate and authorize external users (hereinafter, "EADS"). EADS is a self-service method for external users to create and manage accounts and request application access. An Eligible Customer must request initial application, authentication, and authorization setup through the Work Request process, which work will be priced separately in accordance with the Agreement. EADS includes hardware, hardware maintenance, software, and software maintenance, but does not include any upgrades, except for patches and other updates provided to Vendor at no additional charge. Microsoft technology is not included in the price of EADS and is addressed separately in the Agreement.

In order to subscribe to EADS, an Eligible Customer must be subscribed to Vendor's standard Messaging Services. Following initial deployment, the Eligible Customer's application owners will grant external users access to applications via group membership in the external directory. External users must utilize the self-service portal for account maintenance and application access request.

The table below identifies the roles and responsibilities that Vendor and VITA will perform with respect to EADS.

EADS Roles and Responsibilities

EADS Roles and Responsibilities	Vendor	VITA
1. Provide detailed requirements for EADS implementation, including application configuration request with Eligible Customer applications, through the Work Request process.		X
2. Ensure license compliance for Eligible Customer applications using EADS for directory services.		X
3. Validate Eligible Customer application for EADS environment compliance.		X
4. Create group(s) in support of Eligible Customer application authorization requirements as specified in the Work Request.	X	
5. Configure ADFS services to support Eligible Customer application claims services.	X	
6. Use COV Account Center to view and modify application security group membership as needed.		X

The table below identifies the Service Levels that apply to EADS.

Service Levels for EADS

Type	Service Level Agreement
Incident Resolution	Priority 1 – CESC and SWESC
Incident Resolution	Priority 2 – CESC and SWESC
Incident Resolution	Priority 3 – Other Locations”

2. A new Addendum 9 (External Authentication Domain Service Technical Approach) is added to Appendix 6 to Schedule 3.3 as set forth in Exhibit A.

3. In Schedule 10.1 (Fees), a new Section 5.3.20 is added after Section 5.3.19 as follows.

“5.3.20 Fees for External Authentication Domain Service (EADS)

The EADS End-User Resource Unit Fee applies to each unique End-User account associated with each application group, except as described in the remainder of this paragraph. The EADS End-User Resource Unit Fee, the EADS Application Setup Fee, or any other time and material Fees will not be billed for those End-Users subscribed to Vendor’s Enterprise SharePoint Service who use an EADS account to access such SharePoint application group. In addition, those existing unique accounts associated with the specific application groups listed in the table below will not be billed the EADS End-User Resource Unit Fee, the EADS Application Setup Fee, or any other time and material Fees provided that the Eligible Customer and application group do not change; however, existing End-User accounts may migrate between such existing application groups listed below. The total number of such “grandfathered” accounts will not exceed 1,934.

Eligible Customer	Application Group Description	Count
Various	ACS - Legacy Mainframe Users	1,350
VADOC	Virginia CORIS (External)	69
VADOC	Virtual Library	9
VADOC	Virginia CORIS	1
VADOC	Virginia CORIS UAT, Virginia CORIS DCE	1
VDOT	VDOT AASHTOWare UAT	37
VDOT	Cardinal System	26
VDOT	VDOT AASHTOWare Project Development	26
VDOT	VDOT AASHTOWare Project Training	26
VDOT	VDOT AASHTOWare Project	2
VITA	VITA Supplier Reporting System (SRS)	140
VITA	VITA - Online Billing Application - Users	95
VITA	VITA - Project Manager Development – Browsers	74
VITA	VITA - Cell Phone Application - Browsers	21
VITA	VITA - HR New Hire Application - Users	20
VITA	VITA - VITA Applications - Users	12
VITA	Agency Telco Reps authorized to use VA_QUICK\Utility DIR	7
VITA	Archer	9

Eligible Customer	Application Group Description	Count
VITA	Test Supplier Reporting System (SRS)	3
VITA	Alert Browsers	3
VITA	Legal Briefs	1
VITA	OEOC Browsers	1
Number of external authentication users not subject to EADS End-User RU Fee		Not to exceed 1,934"

4. In Attachment 10.1.3-A to Schedule 10.1 (Definition of Resource Units), the following rows of new text are inserted at the end of the "Other Services" Section (the header row is shown for context only).

Other Services	Unit	Definition
EADS Application Setup	Per Project (one-time)	Time and materials to setup and configure EADS for an application.
EADS End-User	Each unique End-User per Eligible Customer (recurring)	Monthly recurring for each unique End-User per Eligible Customer, per application group.

5. In Attachment 10.1.4-B to Schedule 10.1 (Additional Resource Unit Baselines) the following row of new text is inserted at the end of the "Other Services" Section. The values for the periods prior to Contract Year 9 shall be "N/A." The values for Contract Years 9 through 13 are as shown below (the header row is shown for context only).

Other Services	Unit
EADS End-User	Each unique End-User per Eligible Customer, per application group (recurring).

Year 9	Year 10	Year 11	Year 12	Year 13
N/A	N/A	N/A	N/A	N/A

6. In Attachment 10.1.5-A to Schedule 10.1 (Post-Transition Phase Fees - Fixed Recurring Fees and Baseline Resource Unit Rates by Service Tower) the following row of new text is inserted at the end of the "Other Services" Section. The values for the periods prior to Contract Year 9 shall be "N/A." The values for Contract Years 9 through 13 are as shown below (the header row is shown for context only).

Other Services	Unit
EADS End-User	Each unique End-User per Eligible Customer, per application group (recurring).

Year 9	Year 10	Year 11	Year 12	Year 13
0	0	0	0	0

7. In Attachment 10.1.7 to Schedule 10.1 (Post-Transition Phase Fees - Additional Resource Charges (ARC) Rates by Service Tower) the following row of new text is inserted at the end of the "Other Services" Section. The values for the periods prior to Contract Year 9 shall be "N/A." The values for Contract Years 9 through 13 are as shown below (the header row is shown for context only).

Other Services	Unit
EADS End-User	Each unique End-User per Eligible Customer, per application group (recurring).

Year 9	Year 10	Year 11	Year 12	Year 13
2.37	2.37	2.37	2.37	2.37

8. In Attachment 10.1.8 to Schedule 10.1 (Post-Transition Phase Fees - Reduced Resource Credits (RRC) Rates by Service Tower) the following row of new text is inserted at the end of the "Other Services" Section. The values for the periods prior to Contract Year 9 shall be "N/A." The values for Contract Years 9 through 13 are as shown below (the header row is shown for context only).

Other Services	Unit
EADS End-User	Each unique End-User per Eligible Customer, per application group (recurring).

Year 9	Year 10	Year 11	Year 12	Year 13
N/A	N/A	N/A	N/A	N/A

The Parties have executed this Amendment No. 111 on the dates indicated below.

VITA for the Commonwealth of Virginia	Northrop Grumman Systems Corporation
By: <i>Francine C. Barnes</i>	By: <i>Roxanne Esch</i>
Name: Francine C. Barnes	Name: Roxanne Esch
Contract Manager	Director, Contracts
Date: <i>July 20, 2015</i>	Date: <i>February 25, 2015</i>

**ADDENDUM 9 TO APPENDIX 6 TO SCHEDULE 3.3
TO THE
COMPREHENSIVE INFRASTRUCTURE AGREEMENT
EXTERNAL AUTHENTICATION DOMAIN SERVICE
STATEMENT OF TECHNICAL APPROACH**

Technical Description

Vendor will install and configure EADS with geographic redundancy leveraging the CESC and SWESC data centers and Active Directory replication services. EADS will be available at both CESC and SWESC; should either data center experience a failure, the other data center will provide the authentication and authorization services. Domain controllers located at CESC are the preferred providers; domain controllers located at SWESC are the secondary providers. Availability overrides preference; if CESC domain controllers are unavailable, service requests will use the secondary path automatically.

EADS is based on Microsoft Active Directory. The Forest Functional Level and Domain Functional Level are at the Server 2008 R2 level. Functional Level updates are approved through the VAR process. Each Eligible Customer is responsible for ensuring license compliance for Eligible Customer applications, and that each application that requires authentication is compatible with the domain functional level. Vendor will provide security groups for application access control.

Vendor will provide an application request area on the external user portal. External users will request access to an application by selecting it and submitting the request. The request workflow will send an email to the approver(s) designated by the Eligible Customer. Approvers will approve or deny the request; then, the workflow will take appropriate actions based on the approver's response and the result will be emailed to the external user.

EADS will authenticate in one of the following ways:

- A. If the Eligible Customer application server is joined to the EADS domain (AUTH), EADS uses integrated authentication for authentication and authorization services for external users and for COV users, authentication and authorization services are provided via a trust between the AUTH and COV domains;
 - B. If the Eligible Customer application uses Lightweight Directory Access Protocol (LDAP), EADS responds to LDAP queries in order to provide authentication and authorization services; or
 - C. If the Eligible Customer application uses claims-based authentication and authorization and the domain hosting the application has Active Directory Federation Services (ADFS) in place to connect with the EADS domain, EADS uses 'claims' against the EADS directory via ADFS for authentication and authorization services.
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