

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE QP0022174	PAGE OF PAGES 1 10
2. AMENDMENT/MODIFICATION NO. P00161	3. EFFECTIVE DATE See Block 16B	4. REQUISITION/PURCHASE REQ. NO. PR201707210007		5. PROJECT NO. (If applicable)
6. ISSUED BY General Services Administration/FAS/ITC Office of Acquisition Operations 1800 F Street, NW, 4 <sup>th</sup> Floor Washington DC 20405 Andrea Lane 703-306-6825		7. ADMINISTERED BY (If other than Item 6)	CODE	
8. NAME AND ADDRESS OF CONTRACTOR Manhattan Telecommunications 55 Water Street, 32 <sup>nd</sup> Floor New York, NY. 10041			(D)	9A. AMENDMENT OF SOLICITATION NO.
				9B. DATED (SEE ITEM 11)
			X	10A. MODIFICATION OF CONTRACT/ORDER NO. GS00Q17NSD3007
				10B. DATED (SEE ITEM 13) 7/31/2017
CODE	FACILITY CODE			

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is  extended,  is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning \_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A


**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS,  
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

(D)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <b>Mutual Agreement of Both Parties (FAR 43.103(a)(3))</b>
	OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor \_\_\_ is not, X is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE CONTINUATION PAGE

15A. NAME AND TITLE OF SIGNER (Type or print) Andoni Economou, COO/EVP	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Andrea Lane Contracting Officer
15B. CONTRACTOR/OFFEROR 	15C. DATE SIGNED 03/23/2020
16B. UNITED STATES OF AMERICA	16C. DATE SIGNED

1. The purpose of this modification is to make changes to Sections B and C that include the following:
  - Changes to the CSPC tables and language;
  - Add TIC 3.0 language; and
  - Add an exception to the new SRE requirement that allows agencies to transfer SREs from legacy contract.
  - Additional minor changes.
2. The contract is modified as follows:

**TABLE OF CONTENTS:** Section pages renumbered.

**SECTION B CHANGES:**

A. Section B.1.2.1 Service Areas, Services and References. The last sentence is changed to read "Refer also to Section C.1.2 for a discussion of mandatory and optional services."

B. Section B 2.1.1.4 VPNS Features is changed to read as follows:

'The CSPC feature offers multiple CLIN structures and plans providing ordering options for agencies and flexibility for the contractors to meet the technical requirements listed in Section C.2.1.1.2:

1. Connection-based – a CSPC based on a committed bandwidth; overage CLINs apply as described below, either with a Scalable Bandwidth or Burstable bandwidth option. When ordered, the Connection -based plan CLINs represent the total bandwidth connection to the Cloud Service Provider.
2. Data Plan – a fixed amount of total data consumption by GB; overage CLINs associated with each GB of data consumed over the monthly data plan; data plan allowances can be aggregated/pooled across multiple sites and CSPs. When ordered, these CLINs determine the GB plan to the CSP(s), the maximum bandwidth to the CSPC from the agency network is 10Gbps.
3. Usage Plan – a usage-based plan per GB of data consumed with no overage CLINs. When ordered, these CLINs determine the usage based plan, per GB to the CSP(s), the maximum bandwidth to the CSPC from the agency network is 10Gbps.

Within the Connection-based plans, there are two methods for increasing bandwidth. The first method uses the CSPC feature overage CLINs for Bandwidth on Demand (Scalable bandwidth option), which shall be applied as usage over the selected CSPC Connection-based committed bandwidth. The second method uses Connection-based overage CLINs (Burstable bandwidth option), which shall apply to usage above the selected minimum bandwidth commitment. The contractor shall not charge overage for increasing bandwidth if the government switches to a higher connection committed bandwidth, within the Connection-based plans, even on the last day of the month.'

C. Table B.2.1.1.4.2, VPNS Feature\* Pricing Instructions Table is changed to read as follows:

CLIN	Frequency	Description	Charging Unit	Notes
VN90002	MRC	Interworking Services	Port	Optional
<b>CSPC Connection-based Plan CLINs</b>				
VN90003	NRC	CSPC Public or Private Cloud Service Provider-Specific Connection Plan	Service Initiation	ICB; Optional; is in addition to the CSPC MRC and Usage CLINs
VN91001	MRC	CSPC Ethernet – 1 Mbps Committed Connection-based Plan	Connection	Optional
VN91002	MRC	CSPC Ethernet – 2 Mbps Committed Connection-based Plan	Connection	Optional
VN91003	MRC	CSPC Ethernet – 3 Mbps Committed Connection-based Plan	Connection	Optional
VN91004	MRC	CSPC Ethernet – 4 Mbps Committed Connection-based Plan	Connection	Optional
VN91005	MRC	CSPC Ethernet – 5 Mbps Committed Connection-based Plan	Connection	Optional
VN91006	MRC	CSPC Ethernet – 6 Mbps Committed Connection-based Plan	Connection	Optional
VN91007	MRC	CSPC Ethernet – 7 Mbps Committed Connection-based Plan	Connection	Optional
VN91008	MRC	CSPC Ethernet – 8 Mbps Committed Connection-based Plan	Connection	Optional
VN91009	MRC	CSPC Ethernet – 9 Mbps Committed Connection-based Plan	Connection	Optional
VN91010	MRC	CSPC Ethernet – 10 Mbps Committed Connection-based Plan	Connection	Optional
VN91020	MRC	CSPC Ethernet – 20 Mbps Committed Connection-based Plan	Connection	Optional
VN91025	MRC	CSPC Ethernet – 25 Mbps Committed Connection-based Plan	Connection	Optional
VN91030	MRC	CSPC Ethernet – 30 Mbps Committed Connection-based Plan	Connection	Optional
VN91040	MRC	CSPC Ethernet – 40 Mbps Committed Connection-based Plan	Connection	Optional

CLIN	Frequency	Description	Charging Unit	Notes
VN91050	MRC	CSPC Ethernet – 50 Mbps Committed Connection-based Plan	Connection	Optional
VN91060	MRC	CSPC Ethernet – 60 Mbps Committed Connection-based Plan	Connection	Optional
VN91070	MRC	CSPC Ethernet – 70 Mbps Committed Connection-based Plan	Connection	Optional
VN91080	MRC	CSPC Ethernet – 80 Mbps Committed Connection-based Plan	Connection	Optional
VN91090	MRC	CSPC Ethernet – 90 Mbps Committed Connection-based Plan	Connection	Optional
VN91100	MRC	CSPC Ethernet – 100 Mbps Committed Connection-based Plan	Connection	Optional
VN91155	MRC	CSPC Ethernet – 155 Mbps Committed Connection-based Plan	Connection	Optional
VN91200	MRC	CSPC Ethernet – 200 Mbps Committed Connection-based Plan	Connection	Optional
VN91300	MRC	CSPC Ethernet – 300 Mbps Committed Connection-based Plan	Connection	Optional
VN91400	MRC	CSPC Ethernet – 400 Mbps Committed Connection-based Plan	Connection	Optional
VN91500	MRC	CSPC Ethernet – 500 Mbps Committed Connection-based Plan	Connection	Optional
VN91600	MRC	CSPC Ethernet – 600 Mbps Committed Connection-based Plan	Connection	Optional
VN91700	MRC	CSPC Ethernet – 700 Mbps Committed Connection-based Plan	Connection	Optional
VN91800	MRC	CSPC Ethernet – 800 Mbps Committed Connection-based Plan	Connection	Optional
VN91900	MRC	CSPC Ethernet – 900 Mbps Committed Connection-based Plan	Connection	Optional
VN92001	MRC	CSPC Ethernet – 1 Gbps Committed Connection-based Plan	Connection	Optional
VN92002	MRC	CSPC Ethernet – 2 Gbps Committed Connection-based Plan	Connection	Optional
VN92003	MRC	CSPC Ethernet – 3 Gbps Committed Connection-based Plan	Connection	Optional
VN92004	MRC	CSPC Ethernet – 4 Gbps Committed Connection-based Plan	Connection	Optional

CLIN	Frequency	Description	Charging Unit	Notes
VN92005	MRC	CSPC Ethernet – 5 Gbps Committed Connection-based Plan	Connection	Optional
VN92006	MRC	CSPC Ethernet – 6 Gbps Committed Connection-based Plan	Connection	Optional
VN92007	MRC	CSPC Ethernet – 7 Gbps Committed Connection-based Plan	Connection	Optional
VN92008	MRC	CSPC Ethernet – 8 Gbps Committed Connection-based Plan	Connection	Optional
VN92009	MRC	CSPC Ethernet – 9 Gbps Committed Connection-based Plan	Connection	Optional
VN92010	MRC	CSPC Ethernet – 10 Gbps Committed Connection-based Plan	Connection	Optional
VN93001	Usage	CSPC Ethernet Bandwidth-on-Demand; 1 Mbps ≤ committed bandwidth < 10 Mbps Overage Connection-based Plan	Mbps	Optional Scalable bandwidths
VN93002	Usage	CSPC Ethernet Bandwidth-on-Demand; 10 Mbps ≤ committed bandwidth < 100 Mbps Overage Connection-based Plan	10 Mbps	Optional Scalable bandwidths
VN93003	Usage	CSPC Ethernet Bandwidth-on-Demand; 100 Mbps ≤ committed bandwidth < 1 Gbps Overage Connection-based Plan	100 Mbps	Optional Scalable bandwidths
VN93004	Usage	CSPC Ethernet Bandwidth-on-Demand; 1 Gbps ≤ committed bandwidth < 10 Gbps Overage Connection-based Plan	Gbps	Optional Scalable bandwidths
VN94001	Usage	CSPC Ethernet – Overage for 1 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94002	Usage	CSPC Ethernet – Overage for 2 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94003	Usage	CSPC Ethernet – Overage for 3 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94004	Usage	CSPC Ethernet – Overage for 4 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94005	Usage	CSPC Ethernet – Overage for 5 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94006	Usage	CSPC Ethernet – Overage for 6 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94007	Usage	CSPC Ethernet – Overage for 7 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94008	Usage	CSPC Ethernet – Overage for 8 Mbps Connection-based Plan	Kbps	Optional; Bursting

CLIN	Frequency	Description	Charging Unit	Notes
VN94009	Usage	CSPC Ethernet – Overage for 9 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94010	Usage	CSPC Ethernet – Overage for 10 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94020	Usage	CSPC Ethernet – Overage for 20 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94025	Usage	CSPC Ethernet – Overage for 25 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94030	Usage	CSPC Ethernet – Overage for 30 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94040	Usage	CSPC Ethernet – Overage for 40 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94050	Usage	CSPC Ethernet – Overage for 50 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94060	Usage	CSPC Ethernet – Overage for 60 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94070	Usage	CSPC Ethernet – Overage for 70 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94080	Usage	CSPC Ethernet – Overage for 80 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94090	Usage	CSPC Ethernet – Overage for 90 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94100	Usage	CSPC Ethernet – Overage for 100 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94155	Usage	CSPC Ethernet – Overage for 155 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94200	Usage	CSPC Ethernet – Overage for 200 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94300	Usage	CSPC Ethernet – Overage for 300 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94400	Usage	CSPC Ethernet – Overage for 400 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94500	Usage	CSPC Ethernet – Overage for 500 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94600	Usage	CSPC Ethernet – Overage for 600 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94700	Usage	CSPC Ethernet – Overage for 700 Mbps Connection-based Plan	Kbps	Optional; Bursting

CLIN	Frequency	Description	Charging Unit	Notes
VN94800	Usage	CSPC Ethernet – Overage for 800 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN94900	Usage	CSPC Ethernet – Overage for 900 Mbps Connection-based Plan	Kbps	Optional; Bursting
VN95001	Usage	CSPC Ethernet – Overage for 1 Gbps Connection-based Plan	Kbps	Optional; Bursting
VN95002	Usage	CSPC Ethernet – Overage for 2 Gbps Connection-based Plan	Kbps	Optional; Bursting
VN95003	Usage	CSPC Ethernet – Overage for 3 Gbps Connection-based Plan	Kbps	Optional; Bursting
VN95004	Usage	CSPC Ethernet – Overage for 4 Gbps Connection-based Plan	Kbps	Optional; Bursting
VN95005	Usage	CSPC Ethernet – Overage for 5 Gbps Connection-based Plan	Kbps	Optional; Bursting
VN95006	Usage	CSPC Ethernet – Overage for 6 Gbps Connection-based Plan	Kbps	Optional; Bursting
VN95007	Usage	CSPC Ethernet – Overage for 7 Gbps Connection-based Plan	Kbps	Optional; Bursting
VN95008	Usage	CSPC Ethernet – Overage for 8 Gbps Connection-based Plan	Kbps	Optional; Bursting
VN95009	Usage	CSPC Ethernet – Overage for 9 Gbps Connection-based Plan	Kbps	Optional; Bursting
VN95010	Usage	CSPC Ethernet – Overage for 10 Gbps Connection-based Plan	Kbps	Optional; Bursting
<b>CSPC Data Plan CLINs</b>				
VN90005	MRC	CSPC Data Plan up to 1000 GB	Plan	Optional
VN90006	Usage	CSPC Data Plan up to 1000 GB - Overage	Gigabyte	Optional
VN90007	MRC	CSPC Data Plan up to 3000 GB	Plan	Optional
VN90008	Usage	CSPC Data Plan up to 3000 GB - Overage	Gigabyte	Optional
VN90009	MRC	CSPC Data Plan up to 10000 GB	Plan	Optional
VN90010	Usage	CSPC Data Plan up to 10000 GB - Overage	Gigabyte	Optional
VN90011	MRC	CSPC Data Plan up to 30000 GB	Plan	Optional



CLIN	Frequency	Description	Charging Unit	Notes
VN90012	Usage	CSPC Data Plan up to 30000 GB - Overage	Gigabyte	Optional
VN90013	MRC	CSPC Data Plan up to 45000 GB	Plan	Optional
VN90014	Usage	CSPC Data Plan up to 45000 GB - Overage	Gigabyte	Optional
VN90015	MRC	CSPC Data Plan up to 100000 GB	Plan	Optional
VN90016	Usage	CSPC Data Plan up to 100000 GB - Overage	Gigabyte	Optional
VN90017	MRC	CSPC Data Plan up to 150000 GB	Plan	Optional
VN90018	Usage	CSPC Data Plan up to 150000 GB - Overage	Gigabyte	Optional
VN90019	NRC	CSPC Data Plan - Aggregated	Plan	Optional
VN90020	MRC	CSPC Data Plan 3000 GB Aggregated	Plan	Optional
VN90021	Usage	CSPC Data Plan 3000 GB Overage Aggregated	Gigabyte	Optional
VN90022	MRC	CSPC Data Plan 10000 GB Aggregated	Plan	Optional
VN90023	Usage	CSPC Data Plan 10000 GB Overage Aggregated	Gigabyte	Optional
VN90024	MRC	CSPC Data Plan 30000 GB Aggregated	Plan	Optional
VN90025	Usage	CSPC Data Plan 30000 GB Overage Aggregated	Gigabyte	Optional
VN90026	MRC	CSPC Data Plan 45000 GB Aggregated	Plan	Optional
VN90027	Usage	CSPC Data Plan 45000 GB Overage Aggregated	Gigabyte	Optional
VN90028	MRC	CSPC Data Plan 100000 GB Aggregated	Plan	Optional
VN90029	Usage	CSPC Data Plan 100000 GB Overage Aggregated	Gigabyte	Optional
VN90030	MRC	CSPC Data Plan 150000 GB Aggregated	Plan	Optional
VN90031	Usage	CSPC Data Plan 150000 GB Overage Aggregated	Gigabyte	Optional



CLIN	Frequency	Description	Charging Unit	Notes
VN90032	MRC	CSPC Data Plan 300000 GB Aggregated	Plan	Optional
VN90033	Usage	CSPC Data Plan 300000 GB Overage Aggregated	Gigabyte	Optional
VN90034	MRC	CSPC Data Plan 500000 GB Aggregated	Plan	Optional
VN90035	Usage	CSPC Data Plan 500000 GB Overage Aggregated	Gigabyte	Optional
VN90036	MRC	CSPC Data Plan 700000 GB Aggregated	Plan	Optional
VN90037	Usage	CSPC Data Plan 700000 GB Overage Aggregated	Gigabyte	Optional
VN90038	MRC	CSPC Data Plan 1000000 GB Aggregated	Plan	Optional
VN90039	Usage	CSPC Data Plan 1000000 GB Overage Aggregate	Gigabyte	Optional
<b>CSPC Usage Plan CLINs</b>				
VN90040	MRC	CSPC Usage based Plan	Plan	Optional
VN90041	Usage	CSPC Usage based Plan - 0-3000 GB	Gigabyte	Optional
VN90042	Usage	CSPC Usage based Plan - 3001-9000 GB	Gigabyte	Optional
VN90043	Usage	CSPC Usage based Plan - 9001-15000 GB	Gigabyte	Optional
VN90044	Usage	CSPC Usage based Plan - 15001-45000 GB	Gigabyte	Optional
VN90045	Usage	CSPC Usage based Plan - 45001-150000 GB	Gigabyte	Optional
VN90046	Usage	CSPC Usage based Plan - 150001 GB and above	Gigabyte	Optional

\* See Section C.2.1.1.2 for details

## SECTION C CHANGES:

### A. C.1.8.8 National Policy Requirements

Item 3, is modified to delete “OMB Memorandum M-09-32...and” and replace it with “OMB Memorandum M-19-26 rescinds previous memos for TIC Policy including M-08-05, M-08-16, M-08-27 and M-09-32 to reduce obstacles for “the adoption of cloud-based infrastructure.” M-19-

26 further states: "...this memorandum provides an enhanced approach for implementing the TIC initiative that provides agencies with increased flexibility to use modern security capabilities. This memorandum also establishes a process for ensuring the TIC initiative is agile and responsive to advancements in technology and rapidly evolving threats."

#### B. C.2.1.1.2 Features

ID Number 3, Description #1 is changed to read:

The contractor shall provide encrypted (Std: FIPS Pubs: 140-2, 197) cloud connection to agency specified public and/or private Cloud Service Provider(s) (CSPs), as follows:

1. Capacity and usage based connections:
  - a) Fixed capacity and/or data usage based CSPC.
  - b) Scalable bandwidths or bursting. Predefined committed bandwidth (CIR) with burstable bandwidths over the CIR (Overage) up to a maximum bandwidth, as specified in the task order and/or data consumption with a defined CIR.

#### C. C.2.8.4.1 Service Description

The second paragraph is changed to read: The Managed Trusted Internet Protocol Service (MTIPS) allows agencies to physically and logically connect to the public Internet or other external connections, as required by the agency, in compliance with the Office of Management and Budget's (OMB) Trusted Internet Connections (TIC) update (M-19-26), announced in September 2019 which defines MTIPS applicability to the Traditional TIC use case. MTIPS facilitates security of Internet connections in government networks and provides standard security services to all government users.

The third paragraph is deleted in its entirety.

#### D. C.2.8.4.1.3 Connectivity

The third item is changed to 'Reserved.'

#### E. C.2.10 Service Related Equipment

The third paragraph is modified to insert the following after refurbished: "except when all of the following conditions are met:

- The incumbent under a legacy telecommunications contract/order is awarded a task order under EIS;
- The equipment was being paid for using an installment MRC under a legacy telecommunications contract/order;
- The agency awarding the task order requests that the contractor transfer the equipment from the legacy telecommunications contract/order to a task order placed against this contract."

3. The estimated dollar value of the contract remains unchanged.
4. Except as provided herein, all prices, terms and conditions of the document referenced in Item 10A remain unchanged and in full force and effect