

STATE OF CALIFORNIA
STANDARD AGREEMENT AMENDMENT
 STD. 213 A (Rev 2/12)

CHECK HERE IF ADDITIONAL PAGES ARE ATTACHED

569 Pages

AGREEMENT NUMBER	AMENDMENT NUMBER
IFB STPD 12-001-A, C3-A-12-10-TS-12	2
REGISTRATION NUMBER	

1. This Agreement is entered into between the State Agency and Contractor named below:

STATE AGENCY'S NAME

California Department of Technology

CONTRACTOR'S NAME

NWN Corporation

2. The term of this

Agreement is 11/15/2013 through 6/30/2018

3. The maximum amount of this agreement after this amendment is: \$0.00

4. The parties mutually agree to this amendment as follows. All actions noted below are by this reference made a part of the Agreement and incorporated herein:

A. This amendment incorporates the following changes, Subject CALNET 3, IFB STPD 12-001-A, Category 1: Voice and Data Services, Subcategory 1.2 MPLS, VPN and Converged VOIP (NWN).

- 1.) Changes State signature on original STD 213 A dated (November 15, 2013) from Steve Rushing – Statewide Telecommunications and Network Division (STND), to Barbara Garrett – Statewide Telecommunications and Network Division (STND).
- 2.) Attachment 1: Revisions to Part 1 - General Instructions
- 3.) Attachment 2: Revisions to Volume 2 - Response to Unique Subcategory Requirements
- 4.) Attachment 3: Revisions to Volume 3 – Cost Information, Statement of Work Catalog A
- 5.) Attachment 4: Revisions to IFB-A STPD 12-001-A, Statement of Work Business Requirements
- 6.) Attachment 5: Revisions to Exhibit 8, Contractor's License Information
- 7.) Attachment 6: Revisions to Exhibit 12, Bidder Declaration
- 8.) Attachment 7: Two DVBE Declaration forms for new Subcontractors

This Agreement is effective upon the start date, or California Department of Technology approval, whichever is later.

All other terms and conditions of the original agreement shall remain the same.

IN WITNESS WHEREOF, this Agreement has been executed by the parties hereto.

CONTRACTOR		CALIFORNIA DEPARTMENT OF TECHNOLOGY Use Only <div style="text-align: right; font-size: 1.2em;"> 6/2/15 <i>John E. Fulmer</i> </div>
CONTRACTOR'S NAME NWN Corporation		
BY (Authorized Signature) <i>Mathew S. Niemann</i>	DATE SIGNED (Do not type) 5/15/15	
PRINTED NAME AND TITLE OF PERSON SIGNING Mathew S. Niemann, VP of Strategic Contracts		
ADDRESS 11931 Foundation Place, Suite 250. Gold River CA 95670		
STATE OF CALIFORNIA		
AGENCY NAME California Department of Technology		<input type="checkbox"/> Exempt per:
BY (Authorized Signature) <i>Barbara Garrett</i>	DATE SIGNED (Do not type) 5/15/15	
PRINTED NAME AND TITLE OF PERSON SIGNING Barbara Garrett, Deputy Director, Office of Technology Services - STND		
P.O. Box 1810, MS Y-13, Rancho Cordova, CA 95741-1810		



IFB STPD 12-001-A, C3-A-12-10-TS-12
Amendment #2, Rev. May 12, 2015
CalNet 3, Category 1: Voice and Data Services

Subcategory 1.2 – MPLS, VPN and Converged VoIP

Amendment # 2 Summary



Amendment # 2 Summary – SOW Technical Requirements

This Amendment # 2 Summary is for IFB STPD 12-001-A and incorporates requested additions to NWN’s Catalog A with Costs. This summary represents all substantive changes (minus immaterial changes such as formatting) made to NWN Corporation’s Amendment # 1 Catalog A with Cost previously submitted to the State. Any substantive change not included in this list is non-operative, non-binding and will not be considered a part of the NWN Corporation’s Amendment # 2.

- Updated cover page date to 5/8/2015
- Updated Headers to include contract # (All Pages)
- Updated footers to include 5/8/2015 dates (All Pages)
- Updated formatting on all pages to properly reflect in table of contents
- Updated all tables that continue on next page to have table header and continued in first row.
- Updated all pages after table of contents to reflect numeric order (ex. 1-220)
- Updated all sections to proper heading style to reflect in Table of Contents correctly.
- Completed spell check on all pages and within all tables
- Updated table Content pagination updates
- Verified all tables had the ‘ABCD’ row removed
- Verified all tables started with the first column labeled “item”
- Verified all tables to have no empty rows
- Verified all tables heading row was placed at the start of the table and not found in the middle of a table
- Verified all Table Headings to match appropriate section headings.
- Removed second page entirely
- Table 1.2.2.8.1.a MPLS Port Transport Speeds
 - Changed Item 44 Product Identifier from NWNCA-1000Mbps to NWNCA-1Gbps for consistency (Page 26)
- Table 1.2.2.8.1.b Unsolicited MPLS Port Transport Speeds
 - Added Unsolicited Item #'s 4-14, (Page 27-29): NWN Fully Managed Telepresence Solutions
- Table 1.2.2.8.2.b Unsolicited MPLS PORT and ACCESS BUNDLED TRANSPORT SPEEDS –
 - Added Unsolicited Item #'s 4-101, (Page 32-43)
 - First added Item - Item # 4 (Page 32): MPLS port and access Ethernet on-net Transport service with minimum line; On-Net Transport Services rates – Ranging from one (1) Mbps to 10 Gbps
 - Last added Item - Item # 101 (Page 42, 43): MPLS port and access Ethernet off-net Transport service at minimum line rate of 10 Gbps; MPLS port and access Ethernet off-net Transport service at minimum line rate of 10 Gbps; NWNCA-1945-O;
- Table 1.2.2.8.3.b Unsolicited MPLS Port, Access and Router Bundled Transport Speeds – modified as follows:
 - Removed placeholders and cleared cells to reflect same as other “blank” offerings for consistency (page 48).
- Table 1.2.2.8.4.b Unsolicited MPLS Port, Access and Router Bundled On-Net Transport Speeds – modified as follows:
 - Removed placeholders and cleared cells to reflect same as other “blank” offerings for consistency (page 50).



- Table 1.2.2.8.5.b Unsolicited MPLS Port, Access and Router Bundled Off-Net Transport Speeds – modified as follows:
 - Removed placeholders and cleared cells to reflect same as other “blank” offerings for consistency (page 51)
- Table 1.2.2.8.6.b Unsolicited MPLS Port, Access and Router Bundled Ethernet On-Net Transport Speeds – modified as follows:
 - Removed placeholders and cleared cells to reflect same as other “blank” offerings for consistency (page 64)
- Table 1.2.2.8.7.b Unsolicited MPLS Port, Access and Router Bundled Ethernet Off-Net Transport Speeds – modified as follows:
 - Removed placeholders and cleared cells to reflect same as other “blank” offerings for consistency (page 78)
- Table 1.2.3.2.4.b Unsolicited Converged VoIP Handset Service Packages – modified as follows:
 - Inserted “Converged VoIP Handset Service” and removed “Feature” from description for items 1-20 (pages 96-99)
 - Changed SKU# - Item #20 (Page 99) PN# changed from 1023c to 7023c
 - Added Unsolicited Item # 21, (Page 99) Smart Desk Endpoint -Converged VoIP Handset Service Package; Monthly charge for Converged VoIP Smart Desk Endpoint; NWNCA-7039V
- Table 1.2.3.3.b Additional Unsolicited Converged VoIP Service Features – modified as follows:
 - Added Unsolicited Item #'s 31-57, (Page 111-116)
 - Item # 31 (Page 111): NWN Managed Local Area Network (MLAN) Services; Monthly Charge for Managed LAN Service: a premises-based Ethernet switching infrastructure of an organization's computer network
 - Item #s 47-57 (Page 114-116): NWN Professional Services – Expert Design Engineer (Non-Standard Hours); NWNCA-PSEXPT
- Table 1.2.3.4.4.b Unsolicited Converged VoIP Off-Net Toll Free Features – modified as follows:
 - Removed placeholders and cleared cells to reflect same as other “blank” offerings for consistency (page 118)
- Table 1.2.3.4.5 a Converged VoIP International Off-Net Calling - modified as follows:
 - Changed subsection header from Converged VoIP Off-Net Calling – Peak and Off-Peak.... To Converged VoIP International Off-Net Calling. (page 120)
 - Revised product IDs #'s 1-13, (page 120)
 - Item # 1-13 Peak Time product Identifier – the addition of ‘P’ was added to the end of each of the 13 products to allow for unique IDs in the Service Catalog
 - Item # 1-13 Off-Peak Time product Identifier – the addition of ‘oP’ was added to the end of each of the 13 products to allow for unique IDs in the Service Catalog
 - Item # 1-13 IMTC product Identifier – the addition of iMTC was added to the end of each of the 13 products to allow for unique IDs in the Service Catalog
- Table 1.2.3.4.5 b Unsolicited Converged VoIP International Off-Net Calling - modified as follows:
 - Validated all products were represented in numeric order without any voids.
 - Revised product IDs #'s 1-214, (page 121-128)
 - Item # 1-214 Peak Time product Identifier – the addition of ‘P’ was added to the end of each of the 214 products to allow for unique IDs in the Service Catalog
 - Item # 1-214 Off-Peak Time product Identifier – the addition of ‘oP’ was added to the end of



- each of the 214 products to allow for unique IDs in the Service Catalog
- Item #1-214 IMTC product Identifier – the addition of ‘iMTC’ was added to the end of each product that has an available service as noted by either a product id or NA if unavailable.
- Item #49; Croatia; Changed Product Identifier from NA to QDAI0HR5iMTC (Page 122)
- Items #183-214 IMTC Product Identifiers modified to remove duplicate product IDs as follows:
 - Item #183; Sudan; Changed from QDAI0AF5 to QDAI0SD5iMTC (page 127)
 - Item #184; Suriname; Changed from QDAI0AL5 to QDAI0SR5iMTC (page 127)
 - Item #185; Swaziland; Changed from QDAI0DZ5 to QDAI0SZ5iMTC(page 127)
 - Item #186; Sweden; Changed from QDAI0AD5 to QDAI0SE5iMTC(page 127)
 - Item #187; Syrian Arab Republic; Changed from QDAI0AO5 to QDAI0SY5iMTC(page 127)
 - Item #188; Taiwan; Changed from QDAI0AI5 to QDAI0TW5iMTC(page 127)
 - Item #190; Tanzania; Changed from QDAI0AQ5 to QDAI0TZ5iMTC(page 127)
 - Item #191; Thailand; Changed from QDAI0AG5 to QDAI0TH5iMTC(page 127)
 - Item #192; Turks and Caicos Islands; Changed from QDAI0AR5 to QDAI0TC5iMTC(page 127)
 - Item #193; Togo; Changed from QDAI0AM5 to QDAI0TG5iMTC(page 127)
 - Item #194; Tonga Islands; Changed from QDAI0AW5 to QDAI0TO5iMTC(page 127)
 - Item #195; Trinidad and Tobago; Changed from QDAI0AS5 to QDAI0TT5iMTC(page 127)
 - Item #197; Tunisia; Changed from QDAI0AU5 to QDAI0TN5iMTC(page 127)
 - Item #198; Turkey; Changed from QDAI0AT5 to QDAI0TR5iMTC(page 127)
 - Item #200; United Arab Emirates; Changed from QDAI0BS5 to QDAI0AE5iMTC(page 127)
 - Item #201; Uganda; Changed from QDAI0BH5 to QDAI0UG5iMTC(page 127)
 - Item #202; Ukraine; Changed from QDAI0BD5 to QDAI0UA5iMTC(page 127)
 - Item #203; Uruguay; Changed from QDAI0BB5 to QDAI0UY5iMTC(page 127)
 - Item #204; Uzbekistan; Changed from QDAI0BY5 to QDAI0UZ5iMTC(page 127)
 - Item #206; Vatican City; Changed from QDAI0BZ5 to QDAI0VA5iMTC(page 127)
 - Item #207; Venezuela; Changed from QDAI0BJ5 to QDAI0VE5iMTC(page 128)
 - Item #208; Vietnam; Changed from QDAI0BM5 to QDAI0VN5iMTC(page 128)
 - Item #210; Yemen; Changed from QDAI0BO5 to QDAI0YE5iMTC(page 128)
 - Item #211; Yugoslavia (Federal Republic); Changed from QDAI0BA5 to QDAI0YU5iMTC(page 128)
 - Item #212; Zaire; Changed from QDAI0BW5 to QDAI0ZR5iMTC(page 128)
 - Item #213; Zambia; Changed from QDAI0BN5 to QDAI0ZM5iMTC(page 128)
 - Item #214; Zimbabwe; Changed from QDAI0BG5 to QDAI0ZW5iMTC(page 128)
- Table 1.2.3.5.a Converged VoIP Voice Mail Service Features – modified as follows:
 - Updated header to match Catalog A (page 129)
 - From: Converged VoIP Voice Mail Service Features
 - To: Converged VoIP Voice Mail Service and Features
- Table 1.2.3.6.2.a Bidder’s Converged VoIP and VoIP Voice Mail Services are Commercially Available Areas – changed the word “are” in the description to “in” Table 1.2.3.6.2.a Bidder’s Converged VoIP and VoIP Voice Mail Services **in** Commercially Available Areas (Page 132)



- Table 1.2.3.6.2.b Additional Bidder’s Converged VoIP and VoIP Voice Mail Services Commercially Available Areas changed to include the word “in” to read: Table 1.2.3.6.2.b Additional Bidder’s Converged VoIP and VoIP Voice Mail Services **in** Commercially Available Areas (Page 148)
 - Removed placeholders and cleared cells to reflect same as other “blank” offerings for consistency (page 148).
- Table 1.2.4.1.b Unsolicited Audio Conferencing Features – modified as follows:
 - Removed placeholders and cleared cells to reflect same as other “blank” offerings for consistency (page 151).
- Table 1.2.5.8.b Unsolicited SIP Trunking Features – modified as follows:
 - Removed placeholders and cleared cells to reflect same as other “blank” offerings for consistency (page 155).
- Table 1.2.5.9.a SIP Trunk International Off-Net Calling - modified as follows:
 - Revised product IDs #'s 1-13, (page 156)
 - Item # 1-13 Peak Time product Identifier – the addition of ‘STP’ was added to the end of each of the 13 products to allow for unique IDs in the Service Catalog
 - Item # 1-13 Off-Peak Time product Identifier – the addition of ‘SToP’ was added to the end of each of the 13 products to allow for unique IDs in the Service Catalog
 - Item #1-13 IMTC product Identifier – the addition of ‘iMTC’ was added to the end of each of the 13 products to allow for unique IDs in the Service Catalog.
 - Item #2 IMTC Canada product Identifier – revised to be consistent with the other product IDs in this section. Changed from NWNCA-ICA1 to NWNCA-SICA1iMTC.
- Table 1.2.5.9.b Unsolicited SIP Trunk International Off-Net Calling - modified as follows:
 - Included “1.2.5.9.b” in the header of the Table (page 159)
 - Revised product IDs #'s 1-214, (page 157-163)
 - Item # 1-214 Peak Time product Identifier – the addition of ‘STP’ was added to the end of each of the 214 products to allow for unique IDs in the Service Catalog
 - Item # 1214 Off-Peak Time product Identifier – the addition of ‘SToP’ was added to the end of each of the 214 products to allow for unique IDs in the Service Catalog
 - Item #1-214 IMTC product Identifier – the addition of ‘STiMTC’ was added to the end of each of the 214 products to allow for unique IDs in the Service Catalog.
 - Items #183-214 IMTC Product Identifiers modified to remove duplicate product IDs as follows:
 - Item #183; Sudan; Changed from QDAI0AF5 to QDAI0SD5STiMTC (page 162)
 - Item #184; Suriname; Changed from QDAI0AL5 to QDAI0SR5STiMTC(page 162)
 - Item #185; Swaziland; Changed from QDAI0DZ5 to QDAI0SZ5STiMTC(page 162)
 - Item #186; Sweden; Changed from QDAI0AD5 to QDAI0SE5STiMTC(page 162)
 - Item #187; Syrian Arab Republic; Changed from QDAI0AO5 to QDAI0SY5STiMTC(page 163)
 - Item #188; Taiwan; Changed from QDAI0AI5 to QDAI0TW5STiMTC(page 162)
 - Item #189; Tajikistan; Changed from QDAI05 to DAI0TJ5STiMTC (page 163)
 - Item #190; Tanzania; Changed from QDAI0AQ5 to QDAI0TZ5STiMTC(page 163)
 - Item #191; Thailand; Changed from QDAI0AG5 to QDAI0TH5STiMTC(page 163)
 - Item #192; Turks and Caicos Islands; Changed from QDAI0AR5 to QDAI0TC5STiMTC(page 163)
 - Item #193; Togo; Changed from QDAI0AM5 to QDAI0TG5STiMTC(page 163)



- Item #194; Tonga Islands; Changed from QDAI0AW5 to QDAI0T05STiMTC(page 163)
- Item #195; Trinidad and Tobago; Changed from QDAI0AS5 to QDAI0TT5STiMTC(page 163)
- Item #196; Turkmenistan; Changed from QDAI05 to QDAI0TM5STiMTC (page 163)
- Item #197; Tunisia; Changed from QDAI0AU5 to QDAI0TN5STiMTC(page 163)
- Item #198; Turkey; Changed from QDAI0AT5 to QDAI0TR5STiMTC(page 163)
- Item #200; United Arab Emirates; Changed from QDAI0BS5 to QDAI0AE5STiMTC(page 163)
- Item #201; Uganda; Changed from QDAI0BH5 to QDAI0UG5STiMTC(page 163)
- Item #202; Ukraine; Changed from QDAI0BD5 to QDAI0UA5STiMTC(page 163)
- Item #203; Uruguay; Changed from QDAI0BB5 to QDAI0UY5STiMTC(page 163)
- Item #204; Uzbekistan; Changed from QDAI0BY5 to QDAI0UZ5STiMTC(page 163)
- Item #205; Vanuatu; Changed from QDAI05 to QDAI0VU5STiMTC (page 163)
- Item #206; Vatican City; Changed from QDAI0BZ5 to QDAI0VA5STiMTC(page 163)
- Item #207; Venezuela; Changed from QDAI0BJ5 to QDAI0VE5STiMTC(page 163)
- Item #208; Vietnam; Changed from QDAI0BM5 to QDAI0VN5STiMTC(page 163)
- Item #205; Wallis and Fortuna Islands from QDAI05 to QDAI0WF5STiMTC (page 163)
- Item #210; Yemen; Changed from QDAI0BO5 to QDAI0YE5STiMTC(page 163)
- Item #211; Yugoslavia (Federal Republic); Changed from QDAI0BA5 to QDAI0YU5STiMTC(page 163)
- Item #212; Zaire; Changed from QDAI0BW5 to QDAI0ZR5STiMTC(page 163)
- Item #213; Zambia; Changed from QDAI0BN5 to QDAI0ZM5STiMTC(page 163)
- Item #214; Zimbabwe; Changed from QDAI0BG5 to QDAI0ZW5STiMTC(page 163)
- Table 1.2.8.2.b Unsolicited Extended Demarcation Wiring Services – modified as follows (pages 171-173):
 - Revised item numbers from 11-35 to 9-27 for unsolicited items removing numeric voids. (ex. previous numbering was ...8,11,13,14,20. Revised to ...8,9,10,11,12)
- Tables 1.2.9.8. Technical Service Level Agreements – modified as follows:
 - Added SLA # to header of each table (ex. 1.2.9.8.1 Availability)
 - Each Table starts on its own page. (pages 183 - 200)
 - First SLA Table 1.2.9.8.1 Availability (M-S) (Page 183)
 - Last SLA Table 1.2.9.8.14 Excessive Usage of Site Survivability Network Failure Service (M-S) (Page 200)
 - Table 1.2.9.8.1 - Availability (M-S) – modified as follows:
 - Added additional SLA's for Unsolicited SKU's, (Page 183-184)
 - NWN Managed Local Area Network (MLAN) Services; 99.5%; Premier
 - NWN Fully Managed Telepresence Solutions Services; 99.5%; Premier
 - Table 1.2.9.8.2 - Catastrophic Outage 1 (CAT 1) (M-S) – modified as follows:
 - Added additional SLA's for Unsolicited SKU's, (Page 185)
 - NWN Managed Local Area Network (MLAN) Services; ≤1 Hour; Premier
 - NWN Fully Managed Telepresence Solutions Services; ≤1 Hour; Premier
 - Table 1.2.9.8.3 - Catastrophic Outage 2 (CAT 2) (M-S) – modified as follows:
 - Added additional SLA's for Unsolicited SKU's, (Page 186-187)



- NWN Managed Local Area Network (MLAN) Services; ≤15 minutes; Premier
 - NWN Fully Managed Telepresence Solutions Services; ≤15 minutes; Premier
- Table 1.2.9.8.4 - Catastrophic Outage 3 (CAT 3) (M-S) – modified as follows:
 - Added additional SLA's for Unsolicited SKU's, (Page 188-189)
 - NWN Managed Local Area Network (MLAN) Services; ≤15 minutes; Premier
 - NWN Fully Managed Telepresence Solutions Services; ≤15 minutes; Premier
- Table 1.2.9.8.7 - Excessive Outage (M-S) – modified as follows:
 - Added additional SLA's for Unsolicited SKU's, (Page 192)
 - NWN Managed Local Area Network (MLAN) Services; 8 hours; Premier
 - NWN Fully Managed Telepresence Solutions Services; 8 hours; Premier
- Table 1.2.9.8.10 - Packet Loss (M-S) – modified as follows:
 - Added additional SLA's for Unsolicited SKU's, (Page 195)
 - NWN Managed Local Area Network (MLAN) Services; 25% packet loss; Premier
 - NWN Fully Managed Telepresence Solutions Services; 25% packet loss; Premier
- Table 1.2.9.8.11 - Provisioning (M-S)– modified as follows:
 - Added additional SLA's for Unsolicited SKU's,(Page 196-197)
 - NWN Managed Local Area Network (MLAN) Services; 95%; Premier
 - NWN Fully Managed Telepresence Solutions Services; 95%; Premier
- Table 1.2.9.8.12 - Time to Repair (TTR) (M-S)– modified as follows:
 - Added additional SLA's for Unsolicited SKU's, (Page 198)
 - NWN Managed Local Area Network (MLAN) Services; 4 hours; Standard
 - NWN Fully Managed Telepresence Solutions Services; 4 hours; Standard
- Table 1.2.9.8.13 – Managed Service Proactive Notification – modified as follows:
 - Added additional SLA's for Unsolicited SKU's, (Page 199)
 - NWN Managed Local Area Network (MLAN) Services (Section 1.2.3.3)
 - NWN Fully Managed Telepresence Solutions Services (Section 1.2.3.3)



Amendment # 2 Summary – Catalog A with Cost

This Amendment # 2 Summary is for IFB STPD 12-001-A and incorporates requested additions to NWN’s Catalog A with Costs. This summary represents all substantive changes (minus immaterial changes such as formatting) made to NWN Corporation’s Amendment # 1 Catalog A with Cost previously submitted to the State. Any substantive change not included in this list is non-operative, non-binding and will not be considered a part of the NWN Corporation’s Amendment # 2.

- Updated Cover Page to date 5/12/2015
- Updated Headers to include contract # (All Pages)
- Updated Tables to have header on all continuing pages (All Pages)
- Updated Footer to include 5/12/2015 date (All Pages)
- Removed all blank rows from all Tables (All Pages)
- Updated Table of Contents to properly reflect Pagination as well as section headers as written
- Completed spellcheck on all pages
- Removed ‘ABCD’ rows from Top of all Tables
- Changed Table Descriptions “Change Charge Applicability: None unless otherwise noted in Column E below” to “...otherwise noted in Feature Restrictions, Limitations and Additional Information Column” due to removing ‘ABCD’ rows from table headers.
- Verified all tables start with “item #”
- Removed second page entirely
- Updated Cover Sheet to include contract # and dates
- 1.2.2.8.1 MPLS PORT TRANSPORT SPEEDS – modified as follows:
 - Updated line item #s to be numerically consistent. Changed unsolicited items #1-3 to #45-47. (Page 5)
 - Changed Item 44 Product Identifier from NWNCA-1000Mbps to NWNCA-1Gbps for consistency (Page 5)
- 1.2.2.8.1.b MPLS PORT TRANSPORT SPEEDS
 - Added Unsolicited item #s 48-58 – for NWN Fully Managed Telepresence Solutions
 - First added Item # 48 (Page 5): NWN Fully Managed Telepresence Solutions
 - Last added Item # 58 (Page 11): NWN Fully Managed Telepresence solutions-Room Readiness Survey; NWNCA-VTECH
 - Updated line item #s to be numerically consistent.
- 1.2.2.8.2 MPLS PORT and ACCESS BUNDLED TRANSPORT SPEEDS - modified as follows:
 - Updated line item #s to be numerically consistent. (Changed unsolicited items #1-3 to #20-22.) (Page 14)
 - Added Unsolicited Items #'s 20-120, described as follows, Page (14-25)
 - First added Item - Item # 20 (Page 14): MPLS port and access Ethernet on-net Transport service with minimum line; On-Net Transport Services rates – Ranging from one (1) Mbps to 10 Gbps.
 - Last added Item - Item # 120 (Page 25): MPLS port and access. Ethernet off-net Transport service at minimum line rate of 10 Gbps.
- 1.2.3.2.4 Converged VoIP Handset Service Packages - modified as follows:



- Updated line item #s to be numerically consistent. Changed unsolicited items # 1-20 to # 7-26. (Page 41-47)
- Update Feature Description for Unsolicited Items # 8. (Page 42)
 - Removed unnecessary words “are as” from Feature Description.
- Added Item #27, Page 47
 - Added Item - Item # 27 (Page 47): Smart Desk Endpoint Converged VoIP Handset Service Package; NWNCA-7039V; \$42.00
- 1.2.3.3 Converged VoIP Service Features - modified as follows:
 - Updated line item #s to be numerically consistent. (Changed unsolicited Items #1-30 to #7-36.) (Page 42-49)
 - Added Unsolicited Item #'s 37-61, (Page 48-60)
 - First added Item # 37 (Page 55): NWN Managed Local Area Network (MLAN) Services
 - Last added Item # 61 (Page 60): NWN Professional Services – Expert Design Engineer (Non-Standard Hours); NWNCA-PSEXPOT
- 1.2.3.4.5 Converged VoIP International Off-Net Calling – modified as follows:
 - Peak – Consolidated solicited and unsolicited tables into a single table for Peak Offerings
 - Updated line item #s to be numerically consistent (Changed unsolicited items #1-214 to #14-227) (Page 62-73)
 - Off-Peak – Consolidated solicited and unsolicited tables into a single table for Off-Peak Offerings
 - Updated line item #s to be numerically consistent (Changed unsolicited items #1-214 to #14-227) (Page 74-89)
 - Updated product skus to be consistent with Volume 2 Technical Catalog
 - Changed all Off-Peak Product Skus from previous QDAIO##5oP to QDA00##5oP
 - First Product changed: #14 (page 75) Afghanistan QDA00AF5oP
 - Last Product changed: #227 (page 89) Zimbabwe QDA00ZW5oP
 - International Mobile Termination Charge – Consolidated solicited and unsolicited tables into a single table for IMTC Offerings
 - Updated line item #s to be numerically consistent (Changed unsolicited items #1-214 to #14-227) (Page 90-104)
 - Added Item #114; Kenya; QDAIOKE5iMTC; \$0.4100 per minute (Page 97)
 - Items #196-227 IMTC Product Identifiers modified to remove duplicate product IDs as follows (Page 102-104):
 - Item #196; Sudan; Changed from QDAIOAF5 to QDAIOSD5iMTC
 - Item #197; Suriname; Changed from QDAIOAL5 to QDAIOSR5iMTC
 - Item #198; Swaziland; Changed from QDAIODZ5 to QDAIOSZ5iMTC
 - Item #199; Sweden; Changed from QDAIOAD5 to QDAIOSE5iMTC
 - Item #200; Syrian Arab Republic; Changed from QDAIOAO5 to QDAIOSY5iMTC
 - Item #201; Taiwan; Changed from QDAIOAI5 to QDAIOTW5iMTC
 - Item #203; Tanzania; Changed from QDAIOAQ5 to QDAIOTZ5iMTC
 - Item #204; Thailand; Changed from QDAIOAG5 to QDAIOTH5iMTC
 - Item #205; Turks and Caicos Islands; Changed from QDAIOAR5 to QDAIOTC5iMTC
 - Item #206; Togo; Changed from QDAIOAM5 to QDAIOTG5iMTC
 - Item #207; Tonga Islands; Changed from QDAIOAW5 to QDAIOTO5iMTC
 - Item #208; Trinidad and Tobago; Changed from QDAIOAS5 to QDAIOTT5iMTC



- Item #210; Tunisia; Changed from QDAI0AU5 to QDAI0TN5iMTC
- Item #211; Turkey; Changed from QDAI0AT5 to QDAI0TR5iMTC
- Item #213; United Arab Emirates; Changed from QDAI0BS5 to QDAI0AE5iMTC
- Item #214; Uganda; Changed from QDAI0BH5 to QDAI0UG5iMTC
- Item #215; Ukraine; Changed from QDAI0BD5 to QDAI0UA5iMTC
- Item #216; Uruguay; Changed from QDAI0BB5 to QDAI0UY5iMTC
- Item #217; Uzbekistan; Changed from QDAI0BY5 to QDAI0UZ5iMTC
- Item #219; Vatican City; Changed from QDAI0BZ5 to QDAI0VA5iMTC
- Item #220; Venezuela; Changed from QDAI0BJ5 to QDAI0VE5iMTC
- Item #221; Vietnam; Changed from QDAI0BM5 to QDAI0VN5iMTC
- Item #223; Yemen; Changed from QDAI0BO5 to QDAI0YE5iMTC
- Item #224; Yugoslavia (Federal Republic); Changed from QDAI0BA5 to QDAI0YU5iMTC
- Item #225; Zaire; Changed from QDAI0BW5 to QDAI0ZR5iMTC
- Item #226; Zambia; Changed from QDAI0BN5 to QDAI0ZM5iMTC
- Item #227; Zimbabwe; Changed from QDAI0BG5 to QDAI0ZW5iMTC
- Corrected subsection header to match original Catalog: Unsolicited Converged VoIP International Off-Net Calling.
- Separated Converged VoIP International Off-Net Calling – Peak and Off-Peak into two separate categories: (1) Peak and (2) Off-Peak.
- The following changes were made to Product Identifiers to eliminate duplicate Product IDs
 - Product identifiers changed in the Peak table to include the designation of (P) at the end of every part number (Pages 62-73)
 - Converged VoIP International Off-Net Calling - Peak Items # 14-227, (Pages 63-73) to match Cost Worksheet and SOW Technical documents
 - First updated item: Item # 14 Afghanistan QDA00AF5P (Page 63)
 - Last updated item: Item # 227: Zimbabwe QDAI0ZW5P (Page 73)
 - Product identifiers changed in the Off-Peak table to include the designation of (oP) at the end of every part number (Pages 74-85)
 - Converged VoIP International Off-Net Calling – Off-Peak Items # 1-13, (Pages 74-75); Product Identifiers changed to include the designation of (oP) at the end of each Product Identifier.
 - Converged VoIP International Off-Net Calling - Off-Peak Items # 14-227, (Page 75-85) to match Cost Worksheet and SOW Technical documents
 - First Item: Item # 14 Afghanistan QDAI0AF5oP (Page 75)
 - Last Item: Item # 227: Zimbabwe QDAI0ZW5oP (Page 89)
 - Product identifiers changed in the International Mobile table to include the designation of (iMTC) at the end of every part number (Pages 89-104)
 - Converged VoIP International Off-Net Calling - IMTC Items # 14-227, (Pages 89-104) to match Cost Worksheet and SOW Technical documents
 - First Item: Item # 14 Afghanistan QDAI0AF5iMTC (Page 90)
 - Last Item: Item # 227: Zimbabwe QDAI0ZW5iMTC (Page 104)
 - Items #196-227 IMTC Product Identifiers modified to remove duplicate product IDs as follows (Pages 102-104):



- Item #196; Sudan; Changed from QDAI0AF5 to QDAI0SD5iMTC
- Item #197; Suriname; Changed from QDAI0AL5 to QDAI0SR5iMTC
- Item #198; Swaziland; Changed from QDAI0DZ5 to QDAI0SZ5iMTC
- Item #199; Sweden; Changed from QDAI0AD5 to QDAI0SE5iMTC
- Item #200; Syrian Arab Republic; Changed from QDAI0AO5 to QDAI0SY5iMTC
- Item #201; Taiwan; Changed from QDAI0AI5 to QDAI0TW5iMTC
- Item #203; Tanzania; Changed from QDAI0AQ5 to QDAI0TZ5iMTC
- Item #204; Thailand; Changed from QDAI0AG5 to QDAI0TH5iMTC
- Item #205; Turks and Caicos Islands; Changed from QDAI0AR5 to QDAI0TC5iMTC
- Item #206; Togo; Changed from QDAI0AM5 to QDAI0TG5iMTC
- Item #207; Tonga Islands; Changed from QDAI0AW5 to QDAI0TO5iMTC
- Item #208; Trinidad and Tobago; Changed from QDAI0AS5 to QDAI0TT5iMTC
- Item #210; Tunisia; Changed from QDAI0AU5 to QDAI0TN5iMTC
- Item #211; Turkey; Changed from QDAI0AT5 to QDAI0TR5iMTC
- Item #213; United Arab Emirates; Changed from QDAI0BS5 to QDAI0AE5iMTC
- Item #214; Uganda; Changed from QDAI0BH5 to QDAI0UG5iMTC
- Item #215; Ukraine; Changed from QDAI0BD5 to QDAI0UA5iMTC
- Item #216; Uruguay; Changed from QDAI0BB5 to QDAI0UY5iMTC
- Item #217; Uzbekistan; Changed from QDAI0BY5 to QDAI0UZ5iMTC
- Item #219; Vatican City; Changed from QDAI0BZ5 to QDAI0VA5iMTC
- Item #220; Venezuela; Changed from QDAI0BJ5 to QDAI0VE5iMTC
- Item #221; Vietnam; Changed from QDAI0BM5 to QDAI0VN5iMTC
- Item #223; Yemen; Changed from QDAI0BO5 to QDAI0YE5iMTC
- Item #224; Yugoslavia (Federal Republic); Changed from QDAI0BA5 to QDAI0YU5iMTC
- Item #225; Zaire; Changed from QDAI0BW5 to QDAI0ZR5iMTC
- Item #226; Zambia; Changed from QDAI0BN5 to QDAI0ZM5iMTC
- Item #227; Zimbabwe; Changed from QDAI0BG5 to QDAI0ZW5iMTC
- Column Unit of Measure - Unsolicited Converged VoIP International Off-Net Calling- IMTC Item # 188, (Page 98) to match Cost Worksheet and SOW Technical documents: Changed description to include the word “Minute”
- Identified all part numbers that were skipped in numeric order with country name and NA for Part number and Cost as opposed to skipping them
- Unsolicited Converged VoIP International Off-Net Calling – IMTC Item #s listed as NA
 - #20 Antarctica (Casey) page 90
 - #21 Antarctica (Scott) page 91
 - #27 Ascension Island page 91
 - #39 Bermuda Page 92
 - #41 Bolivia Page 92
 - #56 Christmas and Coco Islands page 93
 - #59 Congo page 93
 - #60 Cook Islands page 93



- #66 Diego Garcia page 94
- #67 Djibouti page 94
- #74 Equatorial Guinea page 94
- #75 Eritrea page 94
- #78 East Timor page 94
- #79 Faeroe Island page 94
- #80 Falkland Islands page 94
- #85 French Polynesia page 95
- #95 Guantanamo page 95
- #98 Guinea, People's Revolutionary Republic page 96
- #115 Kiribati page 97
- #116 Korea, North page 97
- #136 Marshall Islands page 98
- #138 Mauritania page 98
- #140 Micronesia page 98
- #147 Myanmar page 99
- #149 Nauru page 99
- #150 New Caledonia page 99
- #157 Niue page 100
- #158 Norfolk Island page 100
- #164 Palau page 100
- #166 Papua New Guinea page 100
- #174 Romania page 101
- #179 Sao Tome page 101
- #182 Seychelles Islands page 101
- #187 San Marino page 102
- #189 Somali Republic page 101
- #191 St. Helena page 102
- #194 St Pierre and Miquelon page 102
- #202 Tajikistan page 103
- #209 Turkmenistan page 103
- #212 Tuvalu page 103
- #218 Vanuatu page 104
- #222 Wallis and Fortuna Island page 104
- 1.2.3.5 Consolidated solicited and unsolicited items into a single table.
 - Updated header to match Technical Response (Page 105)
 - From: VoIP Voice Mail Services and Features
 - To: Converged VoIP Voice Mail Service and Features
 - Updated Items to be numerically consistent (changed unsolicited item # from 1-5 to 2-6) (Page 105-106)
- 1.2.4.1 Audio Conferencing Service and Features - modified as follows:
 - Changed the verbiage in the "Change Charge Applicability: Description" on page 107
 - From: None unless otherwise noted in "Column E"
 - To: None unless otherwise noted in "Feature Restrictions, Limitations and Additional Information Column"



- 1.2.5.8 SIP Calling Plans – modified as follows:
 - Changed the verbiage in the “Change Charge Applicability: Description” on page 109
 - From: None unless otherwise noted in “Column E”
 - To: None unless otherwise noted in “Feature Restrictions, Limitations and Additional Information Column”
- 1.2.5.9 SIP Trunk International Off-Net Calling - modified as follows:
 - Peak – Consolidated solicited and unsolicited tables into a single table for Peak Offerings
 - Updated line item #s to be numerically consistent (Changed unsolicited items #1-214 to #14-227) (Page 112-123)
 - Off-Peak – Consolidated solicited and unsolicited tables into a single table for Off-Peak Offerings
 - Updated line item #s to be numerically consistent (Changed unsolicited items #1-214 to #14-227) (Page 124-136)
 - International Mobile Termination Charge – Consolidated solicited and unsolicited tables into a single table for IMTC Offerings
 - Updated line item #s to be numerically consistent (Changed unsolicited items #1-214 to #14-227) (Page 136-149)
 - Changed the verbiage in the “Change Charge Applicability: Description” on page 109
 - From: None unless otherwise noted in “Column E”
 - To: None unless otherwise noted in “Feature Restrictions, Limitations and Additional Information Column”
 - These are corrections of a clerical error when copying data from Cost Worksheet (which is correct) to Catalog A (and therefore B)
 - Separated offerings into three categories of Peak, Off-Peak, and IMTC versus the previous offering of only two categories of Peak and Off-Peak, and IMTC
 - Revised header to SIP Trunk International Off-Net Calling – Peak Time from Unsolicited SIP Trunk Off Net International Long Distance Calling – Peak Time
 - Revised header to SIP Trunk International Off-Net Calling – Off Peak Time from Unsolicited SIP Trunk Off Net International Long Distance Calling – Off Peak Time
 - Product identifiers changed in the Peak table to include the designation of (STP) at the end of every part number
 - Product identifiers changed in the Off-Peak table to include the designation of (SToP) at the end of every part number
 - Product identifiers changed in the International Mobile table to include the designation of (STiMTC) at the end of every part number
 - Column Unit of Measure – Unsolicited SIP Trunk Off-Net International Long Distance - IMTC Item # 188, (Page 147) to match Cost Worksheet and SOW Technical documents: Changed to Minute
 - Corrected part number for Canada IMTC to match the Technical Response – Changed from NWNCA-ICA1STiMTC to NWNCA-SICA1STiMTC
 - Identified all part numbers that were skipped in numeric order with country name and NA for Part number and Cost as opposed to skipping them In Unsolicited SIP Trunk Off Net International Long Distance IMTC section and highlighted
 - #20 Antarctica (Casey) page 138
 - #21 Antarctica (Scott) page 138



- #27 Ascension Island page 138
- #39 Bermuda Page 139
- #41 Bolivia Page 139
- #56 Christmas and Coco Islands page 140
- #59 Congo page 140
- #60 Cook Islands page 140
- #66 Diego Garcia page 140
- #67 Djibouti page 140
- #74 Equatorial Guinea page 141
- #75 Eritrea page 141
- #78 East Timor page 141
- #79 Faeroe Island page 141
- #80 Falkland Islands page 141
- #85 French Polynesia page 141
- #95 Guantanamo page 142
- #98 Guinea, People's Revolutionary Republic page 142
- #114 Kenya page 143
- #115 Kiribati page 143
- #116 Korea, North page 143
- #136 Marshall Islands page 144
- #138 Mauritania page 144
- #140 Micronesia page 144
- #147 Myanmar page 145
- #149 Nauru page 145
- #150 New Caledonia page 145
- #157 Niue page 145
- #158 Norfolk Island page 145
- #164 Palau page 145
- #166 Papua New Guinea page 146
- #174 Romania page 146
- #179 Sao Tome page 146
- #182 Seychelles Islands page 146
- #187 San Marino page 147
- #189 Somali Republic page 147
- #192 St Kitts page 147
- #194 St Pierre and Miquelon page 147
- #202 Tajikistan page 147
- #209 Turkmenistan page 148
- #212 Tuvalu page 148
- #218 Vanuatu page 148
- #222 Wallis and Fortuna Island page 148
- Items #183-214 IMTC Product Identifiers modified to remove duplicate product IDs as follows (Page 144-146):



- Item #196; Sudan; Changed from QDAI0AF5 to QDAI0SD5STiMTC
 - Item #197; Suriname; Changed from QDAI0AL5 to QDAI0SR5STiMTC
 - Item #198; Swaziland; Changed from QDAI0DZ5 to QDAI0SZ5STiMTC
 - Item #199; Sweden; Changed from QDAI0AD5 to QDAI0SE5STiMTC
 - Item #200; Syrian Arab Republic; Changed from QDAI0AO5 to QDAI0SY5STiMTC
 - Item #201; Taiwan; Changed from QDAI0AI5 to QDAI0TW5STiMTC
 - Item #203; Tanzania; Changed from QDAI0AQ5 to QDAI0TZ5STiMTC
 - Item #204; Thailand; Changed from QDAI0AG5 to QDAI0TH5STiMTC
 - Item #205; Turks and Caicos Islands; Changed from QDAI0AR5 to QDAI0TC5STiMTC
 - Item #206; Togo; Changed from QDAI0AM5 to QDAI0TG5STiMTC
 - Item #207; Tonga Islands; Changed from QDAI0AW5 to QDAI0TO5STiMTC
 - Item #208; Trinidad and Tobago; Changed from QDAI0AS5 to QDAI0TT5STiMTC
 - Item #210; Tunisia; Changed from QDAI0AU5 to QDAI0TN5STiMTC
 - Item #211; Turkey; Changed from QDAI0AT5 to QDAI0TR5STiMTC
 - Item #213; United Arab Emirates; Changed from QDAI0BS5 to QDAI0AE5STiMTC
 - Item #214; Uganda; Changed from QDAI0BH5 to QDAI0UG5STiMTC
 - Item #202; Tajikistan; Changed from QDA00TJ5 to
 - Item #209 Turkmenistan; Changed from QDAI0TM5 to QDAI0TM5STiMTC
 - Item #212 Tuvalu; Changed from QDAI0TV5 to QDAI0TV5STiMTC
 - Item #218 Vanuatu; Changed from QDAI0VU5 to QDAI0VU5STiMTC
 - Item #215; Ukraine; Changed from QDAI0BD5 to QDAI0UA5STiMTC
 - Item #216; Uruguay; Changed from QDAI0BB5 to QDAI0UY5STiMTC
 - Item #217; Uzbekistan; Changed from QDAI0BY5 to QDAI0UZ5STiMTC
 - Item #219; Vatican City; Changed from QDAI0BZ5 to QDAI0VA5STiMTC
 - Item #220; Venezuela; Changed from QDAI0BJ5 to QDAI0VE5STiMTC
 - Item #221; Vietnam; Changed from QDAI0BM5 to QDAI0VN5STiMTC
 - Item #223; Yemen; Changed from QDAI0BO5 to QDAI0YE5STiMTC
 - Item #224; Yugoslavia (Federal Republic); Changed from QDAI0BA5 to QDAI0YU5STiMTC
 - Item #225; Zaire; Changed from QDAI0BW5 to QDAI0ZR5STiMTC
 - Item #226; Zambia; Changed from QDAI0BN5 to QDAI0ZM5STiMTC
 - Item #227; Zimbabwe; Changed from QDAI0BG5 to QDAI0ZW5STiMTC
- 1.2.8.2 Extended Demarcation Wiring Services – modified as follows:
 - Consolidate solicited and unsolicited items into a single table.
 - Updated Items to be numerically consistent (changed unsolicited item # from 1-35 to 10-36) (Page 150-155)
 - Added Column Unit of Measure - Unsolicited Item #'s 10 through 36, (Page 150-155)
 - First Item Changed – Unsolicited Item # 10 (Page 152): Eight-Pin; NWN0050; \$4.00 Each
 - Last Item Changed – Unsolicited Item # 36 (Page 155): 1.544-Mbps Bridged Connection (8by4); NWN0091; \$47.00 Each