Network Cost Worksheet Attachment - Help Guide

This Excel template will allow you to quickly and easily submit your Network Cost Worksheet data to the RHC Pilot SharePoint Upon entering the information for each entity, you can then upload it to SharePoint to submit the information.

1. Excel Macros Must be Enabled

To use the advanced features of this spreadsheet, the security settings in Excel must be configured so that Macros may b run. The steps to enable macros depend on the version of Microsoft Office you are using.

For Office 2000, 2003:

- -When opening this spreadsheet, you may see a dialog with two options "Enable Macros" or "Disable Macros". Select "Enable Macros".
- -If you are not presented with a window when the spreadsheet loads then you should check that macros are enabled:
 - 1) Select Tools -> Macros -> Security from the main menu.
 - 2) Select the "Medium" Option.
 - 3) Click "OK"
 - 4) You may have to close and then re-open this template

For Office 2007:

- -When opening this spreadsheet, you may see a message near the top of the Excel window that says "Security Warning Some Active Content Has Been Disabled".
 - 1) Click Options.
 - 2) Select "Enable this Content".
 - 3) Click "OK".

2. Using this Spreadsheet

- 1) Begin by entering the data for each entity. You do not need to enter data in the grey columns, they will be filled-in for you have below the column headers provides tips on the entry of some fields. If you require further information on how complete a particular field, refer to section 4 of this help guide.
- 2) Once you have entered all data and are satisfied that it is complete, click the "Validate Sheet" button. A series of check and validations will run, and any fields that may have been inadvertently left blank or may contain potential data or formatt errors will be highlighted in yellow. Check each "yellow" field to ensure the contents of that field are correct. You may cont making modifications and using the "Validate Sheet" button until you feel all necessary changes have been made.

3. Uploading to SharePoint

- 1) When you are ready to submit the information, open SharePoint and navigate to your project's Document Library
- 2) Click "Upload" in the navigation bar for the document library
- 3) Use the "Browse" button to choose and select your saved NCW file and click "Open". Click "OK".
- 4) On the next screen, tag the file with the appropriate Document Type: "12 Network Cost Worksheet"
- 5) Click "Check In." Your Coach will load the information from your attachment into the Network Cost Worksheet tracking I SharePoint

Note: Do not omit step 5, above, or select "Cancel" on this screen. Tagging the file with the appropriate funding year and document type will make it much easier for you, and for your Project Reviewer, to locate specific documents as more files added to the document library.

4. Network Cost Worksheet Column Guide. Items in gray are auto-populated based on data you enter.

Funding Year - Use the drop down menu at the top of the page to select the appropriate funding year.

HCP Number - Auto-populated once you select your project name.

- 1. Project Name Use the drop down menu to select the name of your Pilot Project.
- 2. Funding Year This field is auto-populated from the funding year you selected at the top of the page.
- **3. Service Provider Name -** Enter the name of the service provider or vendor (note that you should complete a separate for each RFP, or for each vendor you selected.

- **4. Service Provider Identification Number (SPIN) -** Enter the SPIN of the service provider or vendor . A SPIN number is unique identifier assigned to each service provider by USAC. Vendors who do not have a SPIN number can apply for one the USAC website.
- **5. Category -** Select the type of service being requested. Please review the "Column 5 and 7a Matrix" tab for helpful information on how to complete this column. If none of the choices match the type of service you wish to enter, select "Ot and contact your Coach via email with a complete description of the service that the site will receive. Your Coach will assi determining the appropriate category of service.
- 6. Sub-Category Select the type of charge (recurring or non-recurring) from the drop down list.
- **7a. Itemized Description, Component -** Select the type of network component being requested. If none of the choices network component you wish to enter, select "Other" and contact your Coach via email with a complete description of the service that the site will receive. Your Coach will assist in determining what type of service you are receiving.
- **7b. Itemized Description, Speed -** Select the network speed. If your service is "Non Recurring", **always select** N/A for no applicable. EXCEPTION: if your service is an IRU or a pre-paid lease you must choose a bandwidth speed based on the bandwidth that will be provided to that site. If none of the choices match the speed you wish to enter, select "Other" and include in Column 12 the bandwidth speed.
- 8. Number of Items or months Enter the quantity of items or number of months of support requested for the item
- **9. Cost Per Item -** Enter the total cost for each individual item (prior to performing an 85/15 calculation). For recurring cos enter the cost per month/payment.
- **10. Comments** Enter the entity-specific 465 App Number(s), taken from the first column of the 465 Attachment, that are associated with this item. (Example: 12345-00-0001, 12345-00-0002, etc) Also, provide comments or a brief description citem.
- 11. Eligible Cost? Is this cost eligible for funding under the RHCPP? Use the drop down menu to select TRUE for yes o FALSE for no.
- 12. Explanation of Eligibility Enter a brief description of the item and how the item is eligible for funding under the RHC
- 13. Total Costs (100%) Will be calculated as # 8) Number of items or months * # 9) Cost per item
- **14. Total Non-Eligible Costs** Will be calculated as the percentage of costs which are NOT eligible for RHCPP funding be on your entry in item 15a, multiplied by the total costs for the item (#13). Formula = ((1- # 15a) * # 13).
- **15a. Total Eligible Costs % -** Enter the percentage of the item's total costs which are eligible for RHCPP funding (Cost Allocation)
- **15b. Total Eligible Costs \$ -** Calculated as the eligible costs (dollar amount) based on the eligible costs (percentage) you entered in %15a. Formula = (# 15a * # 13)
- **16. RHC Pilot Program Funding Request (maximum 85% of eligible costs) -** Enter the percentage of funding (maximum 85%) you are requesting from RHCPP for this item. The amount in this field may be no more than 85%
- 17. Participant Contribution for Eligible Network Costs (minimum 15%) The percentage of the eligible costs that will provided by your project (minimum 15%). Calculated as 100% minus the amount entered in # 16.
- **18. Source of Participant Funds -** Enter the source of your minimum 15% contribution.
- **19. Is this an eligible source? -** Is this source eligible to provide the minimum 15% contribution? Use the drop down men select TRUE for yes or FALSE for no.
- **20. Funding Amount Approved in Pilot Order -** Calculated as the final amount of support you have requested from RH0 for this line item. Formula = (# 15b * # 16)
- RFP # This field will be automatically populated from the RFP # at the top of the form.

Network Cost Worksheet Dropdown Lists

COLUMN 5 - CATEGORY	
1: Network Design	
2: Network Equipment, including Engineering and Installation	
3: Infrastructure/Outside Plant (Engineering)	
4: Infrastructure/Outside Plant (Construction)	
5: Internet 2/NLR/Internet Connection	
6: Leased/Tariffed facilities or services	
7: Network Management/Maintenance/Operations Cost (not captured elsewhere)	
8: Other	

45	7a - DESCRIPTION OF	SERVICE, COMPONENT
1: Antennas / Satellite Equipment	69: Annual Internet2 Subscription	45: Maintenance Contract
22: Asynchronous Transfer Mode (ATM) 28: Myltsplexer 21: Multiplexer 21: Multiplexer 22: Network Equipment (other) 33: Broadband over Power Lines (BPL) 36: Rotwork Management and Operation Services 22: Network Design 41: Cable, copper 32: Network Maritemance 42: Anetwork Maritemance 43: Network Maritemance 43: Network Manitemance 43: Network Manitemance 43: Network Manitemance 44: Cable, fiber 45: Network Manitemance 45: Network Manitemance 46: Chammel Service Unit/Data Service Unit (CSU/DSU) and switches 47: Connectors / couplers / amplifiers 48: Construction 49: Network Server 49: Network Shared Infrastructure 40: Network Switches 41: Construction - Infrastructure/Plant Upgrade 40: Construction - Infrastructure/Plant Upgrade 40: Construction - Inspection Services 42: Oc.1 43: Construction - Make Ready 42: Construction - Management 43: Construction - Management 43: Construction - Management 43: Construction - Mobilization 43: Copper-to-Fiber (TX-to-FX) converter 44: Pre-Paid Lease (15 Year) 45: Ethernet 46: Firewall 47: Fractional T-1 48: RPP Creation 41: Fractional T-1 42: Routers 43: Satellite service 44: RPP Creation 44: Sateway to Internet2 45: Software for Network Management 46: Gateway to NuR 47: Martinglible Expense 48: T-2 48: Intergrated Services Digital Network (ISDN, BRI, PRI) 49: Virtual Private Network (VPN) 49: Virtual Private Network (VPN) 40: IRU (15 Year) 40: Wireless 40: Other (please contact your Coach)	70: Annual NLR Subscription	68: Managed MPLS
21: Multiplexer 32: Broadband over Power Lines (BPL) 33: Bundled Network Management and Operation 34: Cable, copper 35: Cable, fiber 36: Channel Service Unit/Data Service Unit (CSU/DSU) and switches 37: Connectors / couplers / amplifiers 38: Network Management 39: Network Operations 41: Construction 41: Construction 42: Network Shared Infrastructure 42: Network Shared Infrastructure 43: Network Shared Infrastructure 44: Construction 45: Network Shared Infrastructure 47: Construction 48: Construction 49: Oc. 12 40: Construction 40: Network Switches 40: Coll 41: Construction 42: Network Switches 43: Oc. 1 44: Construction 44: Construction 45: Construction 46: Pre-Paid Lease (15 Year) 47: Digital Subscriber Line (DSL) 48: Copper-to-Fiber (TX-to-FX) converter 49: Pre-Paid Lease (20 Year) 40: Ethernet 40: Pre-Paid Lease (20 Year) 40: Sic Farewall 41: Fractional T-1 42: RPP Creation 42: RPP Creation 43: Satellite service 44: Gateway to Internet 45: Software for Network Management 44: Gateway to Public Internet 45: Software for Network Management 44: Ineligible Expense 46: Fire T. Job-1 47: Interface/Edge Device 48: Interpated Services Digital Network (ISDN, BRI, PRI) 48: Interpated Services Digital Network (ISDN, BRI, PRI) 49: Virtual Private Network (VPN) 40: Virtual Private Network (VPN) 41: Interface/Edge Device 42: IRV (26 Year) 44: Wide-Pease Contact your Coach) 45: Wide-Pease Contact your Coach)	1: Antennas / Satellite Equipment	19: Microwave service
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46: Firewall 11: Fractional T-1 22: Routers 12: Frame Relay 33: Satellite service 13: Gateway to Internet2 41: Gateway to NLR 34: Switched Multimegabit Data Service (SMDS) 15: Gateway to Public Internet 35: T-1/DS-1 44: Ineligible Expense 36: T-2 16: Integrated Services Digital Network (ISDN, BRI, PRI) 37: T-3 / DS-3 38: Uninterruptible Power Supply (UPS)/Battery Backup 44: Installation of Equipment 39: Virtual Private Network (VPN) 43: Installation of Recurring Services 47: Warranty 62: IRU (15 Year) 48: IRU (20 Year) 18: Jacks, panels, faceplates and wire managers 69: Other (please contact your Coach)	9: Digital Subscriber Line (DSL)	50: Pre-Paid Lease (20 Year)
11: Fractional T-1 12: Frame Relay 13: Satellite service 13: Gateway to Internet2 14: Gateway to NLR 15: Gateway to Public Internet 16: Integrated Services Digital Network (ISDN, BRI, PRI) 17: Interface/Edge Device 18: Installation of Equipment 19: Virtual Private Network (VPN) 19: IRU (15 Year) 10: Wireless 10: Other (please contact your Coach)	10: Ethernet	58: Professional Services
12: Frame Relay 13: Gateway to Internet2 14: Gateway to NLR 14: Gateway to Public Internet 15: Gateway to Public Internet 16: Integrated Services Digital Network (ISDN, BRI, PRI) 17: Interface/Edge Device 18: Justallation of Equipment 19: Virtual Private Network (VPN) 19: IRU (15 Year) 10: Frame Relay 30: Satellite service 31: Software for Network Management 34: Switched Multimegabit Data Service (SMDS) 35: T-1/DS-1 36: T-2 36: T-2 37: T-3 / DS-3 38: Uninterruptible Power Supply (UPS)/Battery Backup 47: Virtual Private Network (VPN) 48: IRU (15 Year) 40: Wireless 40: Wireless 40: Wireless 40: Wireless 40: Wireless 40: Other (please contact your Coach)	46: Firewall	42: RFP Creation
13: Gateway to Internet2 14: Gateway to NLR 34: Switched Multimegabit Data Service (SMDS) 15: Gateway to Public Internet 35: T-1/DS-1 44: Ineligible Expense 36: T-2 16: Integrated Services Digital Network (ISDN, BRI, PRI) 37: T-3 / DS-3 38: Uninterruptible Power Supply (UPS)/Battery Backup 17: Interface/Edge Device 44: Installation of Equipment 39: Virtual Private Network (VPN) 43: Installation of Recurring Services 47: Warranty 60: Wide Area Network (WAN) 48: IRU (20 Year) 40: Wireless 18: Jacks, panels, faceplates and wire managers 69: Other (please contact your Coach)	11: Fractional T-1	32: Routers
14: Gateway to NLR 15: Gateway to Public Internet 35: T-1/DS-1 44: Ineligible Expense 36: T-2 16: Integrated Services Digital Network (ISDN, BRI, PRI) 37: T-3 / DS-3 38: Uninterruptible Power Supply (UPS)/Battery Backup 44: Installation of Equipment 47: Virtual Private Network (VPN) 43: Installation of Recurring Services 47: Warranty 62: IRU (15 Year) 40: Wireless 18: Jacks, panels, faceplates and wire managers 69: Other (please contact your Coach)	12: Frame Relay	33: Satellite service
15: Gateway to Public Internet 44: Ineligible Expense 36: T-2 16: Integrated Services Digital Network (ISDN, BRI, PRI) 37: T-3 / DS-3 38: Uninterruptible Power Supply (UPS)/Battery Backup 44: Installation of Equipment 39: Virtual Private Network (VPN) 43: Installation of Recurring Services 47: Warranty 62: IRU (15 Year) 40: Wireless 18: Jacks, panels, faceplates and wire managers 69: Other (please contact your Coach)	13: Gateway to Internet2	51: Software for Network Management
44: Ineligible Expense 16: Integrated Services Digital Network (ISDN, BRI, PRI) 37: T-3 / DS-3 38: Uninterruptible Power Supply (UPS)/Battery Backup 44: Installation of Equipment 39: Virtual Private Network (VPN) 43: Installation of Recurring Services 47: Warranty 62: IRU (15 Year) 40: Wireless 18: Jacks, panels, faceplates and wire managers 69: Other (please contact your Coach)	14: Gateway to NLR	34: Switched Multimegabit Data Service (SMDS)
16: Integrated Services Digital Network (ISDN, BRI, PRI) 37: T-3 / DS-3 38: Uninterruptible Power Supply (UPS)/Battery Backup 44: Installation of Equipment 49: Virtual Private Network (VPN) 43: Installation of Recurring Services 47: Warranty 60: Wide Area Network (WAN) 48: IRU (20 Year) 40: Wireless 69: Other (please contact your Coach)	15: Gateway to Public Internet	35: T-1/DS-1
BRI, PRI) 37: T-3 / DS-3 38: Uninterruptible Power Supply (UPS)/Battery Backup 44: Installation of Equipment 43: Installation of Recurring Services 47: Warranty 62: IRU (15 Year) 40: Wireless 18: Jacks, panels, faceplates and wire managers 69: Other (please contact your Coach)	44: Ineligible Expense	36: T-2
17: Interface/Edge Device 44: Installation of Equipment 39: Virtual Private Network (VPN) 43: Installation of Recurring Services 47: Warranty 60: Wide Area Network (WAN) 48: IRU (20 Year) 40: Wireless 18: Jacks, panels, faceplates and wire managers 69: Other (please contact your Coach)	• • • • • • • • • • • • • • • • • • • •	37: T-3 / DS-3
43: Installation of Recurring Services 47: Warranty 62: IRU (15 Year) 60: Wide Area Network (WAN) 48: IRU (20 Year) 40: Wireless 18: Jacks, panels, faceplates and wire managers 69: Other (please contact your Coach)	17: Interface/Edge Device	
62: IRU (15 Year) 60: Wide Area Network (WAN) 48: IRU (20 Year) 40: Wireless 18: Jacks, panels, faceplates and wire managers 69: Other (please contact your Coach)	44: Installation of Equipment	39: Virtual Private Network (VPN)
48: IRU (20 Year) 40: Wireless 18: Jacks, panels, faceplates and wire managers 69: Other (please contact your Coach)	43: Installation of Recurring Services	47: Warranty
18: Jacks, panels, faceplates and wire managers 69: Other (please contact your Coach)	62: IRU (15 Year)	60: Wide Area Network (WAN)
	48: IRU (20 Year)	40: Wireless
63: License Fees	18: Jacks, panels, faceplates and wire managers	69: Other (please contact your Coach)
	63: License Fees	

7b - DESCRIPTION	OF SERVICE, SPEED	
3: 1.544 Mbps (T-1/DS-1)	45: 110 Mbps	
29: 2.048 Mbps	21: 120 Mbps	
22: 3 Mbps	32: 139.264 Mbps	
41: 3.08 Mbps (2xDS1)	37: 150 Mbps	
38: 4.5 Mbps	9: 155 Mbps	
42: 4.62 Mbps (3xDS1)	17: 200 Mbps	
23: 5 Mbps	34: 300 Mbps	
43: 6.16 Mbps (4xDS1)	19: 400 Mbps	
30: 8.448 Mbps	35: 500 Mbps	
44: 9.24 Mbps (6xDS1)	33: 565.148 Mbps	
24: 10 Mbps	10: 622 Mbps	
47: 10.78 Mbps	36: 800 Mbps	
28: 15 Mbps	11: 1 Gbps	
25: 20 Mbps	49: 1.001 Gpbs	
39: 30 Mbps	46: 1.100 Gpbs	
31: 34.638 Mbps	14: 2.488 Gpbs	
26: 40 Mbps	20: 3 Gbps	
6: 45 Mbps	12: 10 Gbps	
18: 50 Mbps	13: 13.2 Gbps	
7: 55 Mbps	15: 39.8 Gpbs	
27: 100 Mbps	16: N/A	
48: 101 Mbps	50: Other (Please contact your Coach)	
(Eliminated)		
1: 256 to 768 kbps		
2: Greater than 768 to 1.544 Mbps	5: 8.448: 44.735 Mbps	
4: Greater than T-1 to 8.448 Mbps	8: 100 Mbps (Ethernet)	

^{*} Shaded are new to the NCW.

7a - DESCRIPTION OF SERVICE, COMPONENT

COLUMN 5 - CATEGORY

69: Annual Internet2 Subscription	5: Internet 2/NLR/Internet Connection
70: Annual NLR Subscription	5: Internet 2/NLR/Internet Connection
	6: Leased/Tariffed facilities or services
1: Antennas / Satellite Equipment	4: Infrastructure/Outside Plant (Construction)
2: Asynchronous Transfer Mode (ATM)	6: Leased/Tariffed facilities or services
64: Bonded T1	6: Leased/Tariffed facilities or services
3: Broadband over Power Lines (BPL)	6: Leased/Tariffed facilities or services
53: Bundled Network Management and Operation Services	7: Network Management/Maintenance/Operations Cost (not captured elsewhere)
4: Cable, copper	4: Infrastructure/Outside Plant (Construction)
5: Cable, fiber	4: Infrastructure/Outside Plant (Construction)
6: Channel Service Unit/Data Service Unit (CSU/DSU) and switches	2: Network Equipment, including Engineering and Installation
	1
7: Connectors / couplers / amplifiers	4: Infrastructure/Outside Plant (Construction)
	4: Infrastructure/Outside Plant (Construction)
41: Construction	3: Infrastructure/Outside Plant (Engineering)
57: Construction - Engineering	3: Infrastructure/Outside Plant (Engineering)
56: Construction - Infrastructure/Plant Upgrade by Carrier	6: Leased/Tariffed facilities or services
	4: Infrastructure/Outside Plant (Construction)
55: Construction - Inspection Services	3: Infrastructure/Outside Plant (Engineering)

	4: Infrastructure/Outside Plant (Construction)
61: Construction - Make Ready	3: Infrastructure/Outside Plant (Engineering)
	4: Infrastructure/Outside Plant (Construction)
54: Construction – Management	3: Infrastructure/Outside Plant (Engineering)
59: Construction - Mobilization	4: Infrastructure/Outside Plant (Construction)
8: Copper-to-Fiber (TX-to-FX) converter	2: Network Equipment, including Engineering and Installation
or copper to riber (ix to rx) converter	and Instattation
9: Digital Subscriber Line (DSL)	6: Leased/Tariffed facilities or services
10: Ethernet	6: Leased/Tariffed facilities or services
	2. Notwork Equipment including Engineering
46: Firewall	2: Network Equipment, including Engineering and Installation
11: Fractional T-1	6: Leased/Tariffed facilities or services
12: Frame Relay	6: Leased/Tariffed facilities or services
	_
	_
13: Gateway to Internet2	6: Leased/Tariffed facilities or services
	5: Internet 2/NLR/Internet Connection
14. Cotovov to NLD	6: Leased/Tariffed facilities or services
14: Gateway to NLR	o. Leased/Tailifed Tacitities of Services
	5: Internet 2/NLR/Internet Connection
15: Gateway to Public Internet	6: Leased/Tariffed facilities or services
20. 00.00.00, 00. 00.000	0. 200000, 10. 21. 00 1002 (22.200 0. 00. 12.00
71: Ineligible Expense	Any of the dropdowns
16: Integrated Services Digital Network (ISDN, BRI, PRI)	6: Leased/Tariffed facilities or services
17: Interface/Edge Device	2: Network Equipment, including Engineering and Installation
44: Installation of Equipment	2: Network Equipment, including Engineering and Installation
43: Installation of Recurring Services	6: Leased/Tariffed facilities or services

00 TPU (45 Vees)	O. Lead (Tariffed Carilities on comission
62: IRU (15 Year)	6: Leased/Tariffed facilities or services
48: IRU (20 Year)	6: Leased/Tariffed facilities or services
18: Jacks, panels, faceplates and wire managers	4: Infrastructure/Outside Plant (Construction)
	, ,
	4: Infrastructure/Outside Plant (Construction)
	3: Infrastructure/Outside Plant (Engineering)
	7: Network Management/Maintenance/Operations
63: License Fees	Cost (not captured elsewhere)
	7: Network Management/Maintenance/Operations Cost (not captured elsewhere)
45. Maintanana Contract	2: Network Equipment, including Engineering
45: Maintenance Contract	and Installation
CO. Managed MDI C	C. Locad/Taviffed facilities as assisted
68: Managed MPLS	6: Leased/Tariffed facilities or services
	1
19: Microwave service	6: Leased/Tariffed facilities or services
20: MPLS	6: Leased/Tariffed facilities or services
21: Multiplexer	2: Network Equipment, including Engineering and Installation
	2: Network Equipment, including Engineering
66: Network Equipment (other)	and Installation
22: Network Design	1: Network Design
23: Network Hardware on Provider Side of Demarc	2: Network Equipment, including Engineering and Installation
Od. Naturally Maintenance	7: Network Management/Maintenance/Operations
24: Network Maintenance	Cost (not captured elsewhere)
	1
25: Network Management	7: Network Management/Maintenance/Operations Cost (not captured elsewhere)
	, , , , , , , , , , , , , , , , , , , ,
	7: Network Management/Maintenance/Operations
26: Network Operations	Cost (not captured elsewhere)
GEL Notwork Corver	2: Network Equipment, including Engineering
65: Network Server	and Installation
	la
52: Network Shared Infrastructure	6: Leased/Tariffed facilities or services

27: Network Switches	Network Equipment, including Engineering and Installation
	į
28: OC-1	6: Leased/Tariffed facilities or services
las, as 10	On the different feet like in the contract
29: OC-12	6: Leased/Tariffed facilities or services
20. 00 2	6: Leased/Tariffed facilities or services
30: OC-3	o. Leaseu/Tallileu Tacililles of Services
31: 0C-n	6: Leased/Tariffed facilities or services
o11 00 II	01 200000/10/11/00 1001/12/2000 01 00/1/2000
49: Pre-Paid Lease (15 Year)	6: Leased/Tariffed facilities or services
50: Pre-Paid Lease (20 Year)	6: Leased/Tariffed facilities or services
	7: Network Management/Maintenance/Operations
58: Professional Services	Cost (not captured elsewhere)
	7: Network Management/Maintenance/Operations
42: RFP Creation	Cost (not captured elsewhere)
32: Routers	2: Network Equipment, including Engineering and Installation
oz. Rodeci s	and Instattation
33: Satellite service	6: Leased/Tariffed facilities or services
	2: Network Equipment, including Engineering
	and Installation 7: Network Management/Maintenance/Operations
51: Software for Network Management	Cost (not captured elsewhere)
	•
34: Switched Multimegabit Data Service (SMDS)	2: Network Equipment, including Engineering and Installation
(GNDG)	and Instactación
35: T-1/DS-1	6: Leased/Tariffed facilities or services
36: T-2	6: Leased/Tariffed facilities or services
	•
37: T-3 / DS-3	6: Leased/Tariffed facilities or services
38: Uninterruptible Power Supply	2: Network Equipment, including Engineering
(UPS)/Battery Backup	and Installation
20. Virtual Privata Natural (VDN)	G. Looped/Toriffed facilities or commission
39: Virtual Private Network (VPN)	6: Leased/Tariffed facilities or services
	7: Network Management/Maintenance/Onerations
	7: Network Management/Maintenance/Operations Cost (not captured elsewhere)

47: Warranty	2: Network Equipment, including Engineering and Installation
60: Wide Area Network	6: Leased/Tariffed facilities or services
40: Wireless	6: Leased/Tariffed facilities or services
	1: Network Design
	2: Network Equipment, including Engineering and Installation
	3: Infrastructure/Outside Plant (Engineering)
	4: Infrastructure/Outside Plant (Construction)
5: Internet 2/NLR/Internet Connection	
	6: Leased/Tariffed facilities or services
	7: Network Management/Maintenance/Operations Cost (not captured elsewhere)
67: Other	8: Other

^{*} Shaded are new to the NCW.





uns Connected Worksheet 1. Project Name

