

**COUNTY OF MONTEREY STANDARD AGREEMENT
(MORE THAN \$100,000)**

This **Agreement** is made by and between the County of Monterey, a political subdivision of the State of California (hereinafter "County") and:
Dimension Data North America, Inc.,
(hereinafter "CONTRACTOR").

In consideration of the mutual covenants and conditions set forth in this Agreement, the parties agree as follows:

1.0 GENERAL DESCRIPTION.

- 1.01 The County hereby engages CONTRACTOR to perform, and CONTRACTOR hereby agrees to perform, the services described in **Exhibit A** in conformity with the terms of this Agreement. The goods and/or services are generally described as follows:
Provide design, plan, and implement Monterey County's network infrastructure upgrade.

2.0 PAYMENT PROVISIONS.

- 2.01 County shall pay the CONTRACTOR in accordance with the payment provisions set forth in **Exhibit A**, subject to the limitations set forth in this Agreement. The total amount payable by County to CONTRACTOR under this Agreement shall not exceed the sum of \$ 930,735.91.

3.0 TERM OF AGREEMENT.

- 3.01 The term of this Agreement is from March 29, 2017 to June 30, 2019, unless sooner terminated pursuant to the terms of this Agreement. This Agreement is of no force or effect until signed by both CONTRACTOR and County and with County signing last, and **CONTRACTOR may not commence work before County signs this Agreement.**
- 3.02 The County reserves the right to cancel this Agreement, or any extension of this Agreement, without cause, with a thirty day (30) written notice, or with cause immediately.

4.0 SCOPE OF SERVICES AND ADDITIONAL PROVISIONS.

- 4.01 The following attached exhibits are incorporated herein by reference and constitute a part of this Agreement:
- Exhibit A** **Scope of Services/Payment Provisions**
Exhibit B **Timeline Schedule**

5.0 PERFORMANCE STANDARDS.

- 5.01 CONTRACTOR warrants that CONTRACTOR and CONTRACTOR's agents, employees, and subcontractors performing services under this Agreement are specially trained, experienced, competent, and appropriately licensed to perform the work and deliver the services required under this Agreement and are not employees of the County, or immediate family of an employee of the County.
- 5.02 CONTRACTOR, its agents, employees, and subcontractors shall perform all work in a safe and skillful manner and in compliance with all applicable laws and regulations. All work performed under this Agreement that is required by law to be performed or supervised by licensed personnel shall be performed in accordance with such licensing requirements.
- 5.03 CONTRACTOR shall furnish, at its own expense, all materials, equipment, and personnel necessary to carry out the terms of this Agreement, except as otherwise specified in this Agreement. CONTRACTOR shall not use County premises, property (including equipment, instruments, or supplies) or personnel for any purpose other than in the performance of its obligations under this Agreement.

6.0 PAYMENT CONDITIONS.

- 6.01 Prices shall remain firm for the initial term of the Agreement and, thereafter, may be adjusted annually as provided in this paragraph. The County does not guarantee any minimum or maximum amount of dollars to be spent under this Agreement.
- 6.02 Negotiations for rate changes shall be commenced, by CONTRACTOR, a minimum of ninety days (90) prior to the expiration of the Agreement. Rate changes are not binding unless mutually agreed upon in writing by the County and the CONTRACTOR.
- 6.03 Invoice amounts shall be billed directly to the ordering department.
- 6.04 CONTRACTOR shall submit such invoice periodically or at the completion of services, but in any event, not later than 30 days after completion of services. The invoice shall set forth the amounts claimed by CONTRACTOR for the previous period, together with an itemized basis for the amounts claimed, and such other information pertinent to the invoice. The County shall certify the invoice, either in the requested amount or in such other amount as the County approves in conformity with this Agreement, and shall promptly submit such invoice to the County Auditor-Controller for payment. The County Auditor-Controller shall pay the amount certified within 30 days of receiving the certified invoice.

7.0 TERMINATION.

- 7.01 During the term of this Agreement, the County may terminate the Agreement for any reason by giving written notice of termination to the CONTRACTOR at least thirty (30) days prior to the effective date of termination. Such notice shall set forth the effective date of termination. In the event of such termination, the amount payable under this Agreement shall be reduced in proportion to the services provided prior to the date of termination.

- 7.02 The County may cancel and terminate this Agreement for good cause effective immediately upon written notice to CONTRACTOR. "Good cause" includes the failure of CONTRACTOR to perform the required services at the time and in the manner provided under this Agreement. If County terminates this Agreement for good cause, the County may be relieved of the payment of any consideration to CONTRACTOR, and the County may proceed with the work in any manner, which County deems proper. The cost to the County shall be deducted from any sum due the CONTRACTOR under this Agreement.
- 7.03 The County's payments to CONTRACTOR under this Agreement are funded by local, state and federal governments. If funds from local, state and federal sources are not obtained and continued at a level sufficient to allow for the County's purchase of the indicated quantity of services, then the County may give written notice of this fact to CONTRACTOR, and the obligations of the parties under this Agreement shall terminate immediately, or on such date thereafter, as the County may specify in its notice, unless in the meanwhile the parties enter into a written amendment modifying this Agreement.

8.0 INDEMNIFICATION.

- 8.01 CONTRACTOR shall indemnify, defend, and hold harmless the County, its officers, agents, and employees, from and against any and all claims, liabilities, and losses whatsoever (including damages to property and injuries to or death of persons, court costs, and reasonable attorneys' fees) occurring or resulting to any and all persons, firms or corporations furnishing or supplying work, services, materials, or supplies in connection with the performance of this Agreement, and from any and all claims, liabilities, and losses occurring or resulting to any person, firm, or corporation for damage, injury, or death arising out of or connected with the CONTRACTOR's performance of this Agreement, unless such claims, liabilities, or losses arise out of the sole negligence or willful misconduct of the County. "CONTRACTOR's performance" includes CONTRACTOR's action or inaction and the action or inaction of CONTRACTOR's officers, employees, agents and subcontractors.

9.0 INSURANCE REQUIREMENTS.

9.01 Evidence of Coverage:

Prior to commencement of this Agreement, the Contractor shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall accompany the certificate. In addition, the Contractor upon request shall provide a certified copy of the policy or policies.

This verification of coverage shall be sent to the County's Contracts/Purchasing Department, unless otherwise directed. The Contractor shall not receive a "Notice to Proceed" with the work under this Agreement until it has obtained all insurance required and the County has approved such insurance. This approval of insurance shall neither relieve nor decrease the liability of the Contractor.

9.02 Qualifying Insurers:

All coverage's, except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A- VII, according to

the current Best's Key Rating Guide or a company of equal financial stability that is approved by the County's Purchasing Manager.

- 9.03 **Insurance Coverage Requirements:** Without limiting CONTRACTOR's duty to indemnify, CONTRACTOR shall maintain in effect throughout the term of this Agreement a policy or policies of insurance with the following minimum limits of liability:

Commercial General Liability Insurance, including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broad form Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than \$1,000,000 per occurrence.

(Note: any proposed modifications to these general liability insurance requirements shall be attached as an Exhibit hereto, and the section(s) above that are proposed as not applicable shall be lined out in blue ink. All proposed modifications are subject to County approval.)

Business Automobile Liability Insurance, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this Agreement, with a combined single limit for Bodily Injury and Property Damage of not less than \$1,000,000 per occurrence.

(Note: any proposed modifications to these auto insurance requirements shall be attached as an Exhibit hereto, and the section(s) above that are proposed as not applicable shall be lined out in blue ink. All proposed modifications are subject to County approval.)

Workers' Compensation Insurance, if CONTRACTOR employs others in the performance of this Agreement, in accordance with California Labor Code section 3700 and with Employer's Liability limits not less than \$1,000,000 each person, \$1,000,000 each accident and \$1,000,000 each disease.

(Note: any proposed modifications to these workers' compensation insurance requirements shall be attached as an Exhibit hereto, and the section(s) above that are proposed as not applicable shall be lined out in blue ink. All proposed modifications are subject to County approval.)

Professional Liability Insurance, if required for the professional services being provided, (e.g., those persons authorized by a license to engage in a business or profession regulated by the California Business and Professions Code), in the amount of not less than \$1,000,000 per claim and \$2,000,000 in the aggregate, to cover liability for malpractice or errors or omissions made in the course of rendering professional services. If professional liability insurance is written on a "claims-made" basis rather than an occurrence basis, the CONTRACTOR shall, upon the expiration or earlier termination of this Agreement, obtain extended reporting coverage ("tail coverage") with the same liability limits. Any such tail coverage shall continue for at least three years following the expiration or earlier termination of this Agreement.

(Note: any proposed modifications to these auto insurance requirements shall be attached as an Exhibit hereto, and the section(s) above that are proposed as not applicable shall be lined out in blue ink. All proposed modifications are subject to County approval.)

9.04 Other Requirements:

All insurance required by this Agreement shall be with a company acceptable to the County and issued and executed by an admitted insurer authorized to transact Insurance business in the State of California. Unless otherwise specified by this Agreement, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three years following the date CONTRACTOR completes its performance of services under this Agreement.

Each liability policy shall provide that the County shall be given notice in writing at least thirty days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for Contractor and additional insureds with respect to claims arising from each subcontractor, if any, performing work under this Agreement, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

Commercial general liability and automobile liability policies shall provide an endorsement naming the County of Monterey, its officers, agents, and employees as Additional Insureds with respect to liability arising out of the CONTRACTOR'S work, including ongoing and completed operations, **and shall further provide that such insurance is primary insurance to any insurance or self-insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the CONTRACTOR'S insurance.** The required endorsement form for Commercial General Liability Additional Insured is ISO Form CG 20 10 11-85 or CG 20 10 10 01 in tandem with CG 20 37 10 01 (2000). The required endorsement form for Automobile Additional Insured endorsement is ISO Form CA 20 48 02 99.

Prior to the execution of this Agreement by the County, CONTRACTOR shall file certificates of insurance with the County's contract administrator and County's Contracts/Purchasing Division, showing that the CONTRACTOR has in effect the insurance required by this Agreement. The CONTRACTOR shall file a new or amended certificate of insurance within five calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this Agreement, which shall continue in full force and effect.

CONTRACTOR shall at all times during the term of this Agreement maintain in force the insurance coverage required under this Agreement and shall send, without demand by County, annual certificates to County's Contract Administrator and County's Contracts/Purchasing Division. If the certificate is not received by the expiration date, County shall notify CONTRACTOR and CONTRACTOR shall have five calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by CONTRACTOR to maintain such insurance is a default of this Agreement, which entitles County, at its sole discretion, to terminate this Agreement immediately.

10.0 RECORDS AND CONFIDENTIALITY.

- 10.01 Confidentiality. CONTRACTOR and its officers, employees, agents, and subcontractors shall comply with any and all federal, state, and local laws, which provide for the confidentiality of records and other information. CONTRACTOR shall not disclose any confidential records or other confidential information received from the County or prepared in connection with the performance of this Agreement, unless County specifically permits CONTRACTOR to disclose such records or information. CONTRACTOR shall promptly transmit to County any and all requests for disclosure of any such confidential records or information. CONTRACTOR shall not use any confidential information gained by CONTRACTOR in the performance of this Agreement except for the sole purpose of carrying out CONTRACTOR's obligations under this Agreement.
- 10.02 County Records. When this Agreement expires or terminates, CONTRACTOR shall return to County any County records which CONTRACTOR used or received from County to perform services under this Agreement.
- 10.03 Maintenance of Records. CONTRACTOR shall prepare, maintain, and preserve all reports and records that may be required by federal, state, and County rules and regulations related to services performed under this Agreement. CONTRACTOR shall maintain such records for a period of at least three years after receipt of final payment under this Agreement. If any litigation, claim, negotiation, audit exception, or other action relating to this Agreement is pending at the end of the three year period, then CONTRACTOR shall retain said records until such action is resolved.
- 10.04 Access to and Audit of Records. The County shall have the right to examine, monitor and audit all records, documents, conditions, and activities of the CONTRACTOR and its subcontractors related to services provided under this Agreement. Pursuant to Government Code section 8546.7, if this Agreement involves the expenditure of public funds in excess of \$10,000, the parties to this Agreement may be subject, at the request of the County or as part of any audit of the County, to the examination and audit of the State Auditor pertaining to matters connected with the performance of this Agreement for a period of three years after final payment under the Agreement.
- 10.05 Royalties and Inventions. County shall have a royalty-free, exclusive and irrevocable license to reproduce, publish, and use, and authorize others to do so, all original computer programs, writings, sound recordings, pictorial reproductions, drawings, and other works of similar nature produced in the course of or under this Agreement. CONTRACTOR shall not publish any such material without the prior written approval of County.

11.0 NON-DISCRIMINATION.

- 11.01 During the performance of this Agreement, CONTRACTOR, and its subcontractors, shall not unlawfully discriminate against any person because of race, religious creed, color, sex, national origin, ancestry, physical disability, mental disability, medical condition, marital status, age (over 40), or sexual orientation, either in CONTRACTOR's employment practices or in the furnishing of services to recipients. CONTRACTOR shall ensure that the evaluation and treatment of its employees and applicants for employment and all persons receiving and requesting services are free of such discrimination. CONTRACTOR and any subcontractor shall, in the performance of this Agreement, fully comply with all federal,

state, and local laws and regulations which prohibit discrimination. The provision of services primarily or exclusively to such target population as may be designated in this Agreement shall not be deemed to be prohibited discrimination.

12.0 COMPLIANCE WITH TERMS OF STATE OR FEDERAL GRANTS.

12.01 If this Agreement has been or will be funded with monies received by the County pursuant to a contract with the state or federal government in which the County is the grantee, CONTRACTOR will comply with all the provisions of said contract, to the extent applicable to CONTRACTOR as a subgrantee under said contract, and said provisions shall be deemed a part of this Agreement, as though fully set forth herein. Upon request, County will deliver a copy of said contract to CONTRACTOR, at no cost to CONTRACTOR.

13.0 INDEPENDENT CONTRACTOR.

13.01 In the performance of work, duties, and obligations under this Agreement, CONTRACTOR is at all times acting and performing as an independent contractor and not as an employee of the County. No offer or obligation of permanent employment with the County or particular County department or agency is intended in any manner, and CONTRACTOR shall not become entitled by virtue of this Agreement to receive from County any form of employee benefits including but not limited to sick leave, vacation, retirement benefits, workers' compensation coverage, insurance or disability benefits. CONTRACTOR shall be solely liable for and obligated to pay directly all applicable taxes, including federal and state income taxes and social security, arising out of CONTRACTOR's performance of this Agreement. In connection therewith, CONTRACTOR shall defend, indemnify, and hold County harmless from any and all liability which County may incur because of CONTRACTOR's failure to pay such taxes.

14.0 NOTICES.

14.01 Notices required under this Agreement shall be delivered personally or by first-class, postage pre-paid mail to the County and CONTRACTOR'S contract administrators at the addresses listed below:

FOR COUNTY:	FOR CONTRACTOR:
Alex Zheng, Division Manager – Infrastructure	Alan Engler, Vice President - Sales
Name and Title Information Technology Department 1590 Moffett Street Salinas, CA 93901	Name and Title Dimension Data North America, Incorporated 27202 West Turnberry Lane, Suite 100 Valencia, CA 91355
Address	Address
(831)759-6991	(661) 775-2451
Phone	Phone

15.0 MISCELLANEOUS PROVISIONS.

- 15.01 Conflict of Interest. CONTRACTOR represents that it presently has no interest and agrees not to acquire any interest during the term of this Agreement, which would directly, or indirectly conflict in any manner or to any degree with the full and complete performance of the services required to be rendered under this Agreement.
- 15.02 Amendment. This Agreement may be amended or modified only by an instrument in writing signed by the County and the CONTRACTOR.
- 15.03 Waiver. Any waiver of any terms and conditions of this Agreement must be in writing and signed by the County and the CONTRACTOR. A waiver of any of the terms and conditions of this Agreement shall not be construed as a waiver of any other terms or conditions in this Agreement.
- 15.04 Contractor. The term "CONTRACTOR" as used in this Agreement includes CONTRACTOR's officers, agents, and employees acting on CONTRACTOR's behalf in the performance of this Agreement.
- 15.05 Disputes. CONTRACTOR shall continue to perform under this Agreement during any dispute.
- 15.06 Assignment and Subcontracting. The CONTRACTOR shall not assign, sell, or otherwise transfer its interest or obligations in this Agreement without the prior written consent of the County. None of the services covered by this Agreement shall be subcontracted without the prior written approval of the County. Notwithstanding any such subcontract, CONTRACTOR shall continue to be liable for the performance of all requirements of this Agreement.
- 15.07 Successors and Assigns. This Agreement and the rights, privileges, duties, and obligations of the County and CONTRACTOR under this Agreement, to the extent assignable or delegable, shall be binding upon and inure to the benefit of the parties and their respective successors, permitted assigns, and heirs.
- 15.08 Compliance with Applicable Law. The parties shall comply with all applicable federal, state, and local laws and regulations in performing this Agreement.
- 15.09 Headings. The headings are for convenience only and shall not be used to interpret the terms of this Agreement.
- 15.10 Time is of the Essence. Time is of the essence in each and all of the provisions of this Agreement.
- 15.11 Governing Law. This Agreement shall be governed by and interpreted under the laws of the State of California.
- 15.12 Non-exclusive Agreement. This Agreement is non-exclusive and both County and CONTRACTOR expressly reserve the right to contract with other entities for the same or similar services.

- 15.13 Construction of Agreement. The County and CONTRACTOR agree that each party has fully participated in the review and revision of this Agreement and that any rule of construction to the effect that ambiguities are to be resolved against the drafting party shall not apply in the interpretation of this Agreement or any amendment to this Agreement.
- 15.14 Counterparts. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same Agreement.
- 15.15 Authority. Any individual executing this Agreement on behalf of the County or the CONTRACTOR represents and warrants hereby that he or she has the requisite authority to enter into this Agreement on behalf of such party and bind the party to the terms and conditions of this Agreement.
- 15.16 Integration. This Agreement, including the exhibits, represent the entire Agreement between the County and the CONTRACTOR with respect to the subject matter of this Agreement and shall supersede all prior negotiations, representations, or agreements, either written or oral, between the County and the CONTRACTOR as of the effective date of this Agreement, which is the date that the County signs the Agreement.
- 15.17 Interpretation of Conflicting Provisions. In the event of any conflict or inconsistency between the provisions of this Agreement and the Provisions of any exhibit or other attachment to this Agreement, the provisions of this Agreement shall prevail and control.

-----This section left blank intentionally-----

16.0 SIGNATURE PAGE.

IN WITNESS WHEREOF, County and CONTRACTOR have executed this Agreement as of the day and year written below.

COUNTY OF MONTEREY

CONTRACTOR

By: _____
Contracts/Purchasing Officer

Date: _____

By: Eric A. Chatham
Department Head (if applicable)

Date: 5-2-17

By: _____
Board of Supervisors (if applicable)

Date: _____

Approved as to Form¹

By: Rebecca M. Quiceno
County Counsel

Date: May 2, 2017

Approved as to Fiscal Provisions²

By: [Signature]
Auditor/Controller

Date: 5-2-17

Approved as to Liability Provisions³

By: _____
Risk Management

Date: _____

By: _____
Dimension Data North America, Inc.
Contractor's Business Name*

By: [Signature]
(Signature of Chair, President, or
Vice-President)*

ALAN ENGLER, VP SALES, VERTICAL MARKETS
Name and Title

Date: 4/6/17

By: [Signature]
(Signature of Secretary, Asst. Secretary, CFO,
Treasurer or Asst. Treasurer)*

F. Scott Macfee, President
Name and Title

Date: 4/7/17

County Board of Supervisors' Agreement Number: _____, approved on (date): _____

*INSTRUCTIONS: If CONTRACTOR is a corporation, including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers. If CONTRACTOR is a partnership, the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership. If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any, and shall personally sign the Agreement.

¹Approval by County Counsel is required
²Approval by Auditor-Controller is required
³Approval by Risk Management is necessary only if changes are made in paragraphs 8 or 9

16.0 SIGNATURE PAGE.

IN WITNESS WHEREOF, County and CONTRACTOR have executed this Agreement as of the day and year written below.

COUNTY OF MONTEREY

CONTRACTOR

By: _____
Contracts/Purchasing Officer

Date: _____

By: _____
Department Head (if applicable)

Date: _____

By: _____
Board of Supervisors (if applicable)

Date: _____

Approved as to Form¹

By: _____
County Counsel

Date: _____

Approved as to Fiscal Provisions²

By: _____
Auditor/Controller

Date: _____

Approved as to Liability Provisions³

By: _____
Risk Management

Date: _____

Dimension Data North America, Inc.
Contractor's Business Name*

By: _____
(Signature of Chair, President, or
Vice-President)*

Name and Title

Date: _____

By: _____
(Signature of Secretary, Asst. Secretary, CFO,
Treasurer or Asst. Treasurer)*

Name and Title

Date: _____

County Board of Supervisors' Agreement Number: _____, approved on (date): _____

*INSTRUCTIONS: If CONTRACTOR is a corporation, including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers. If CONTRACTOR is a partnership, the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership. If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any, and shall personally sign the Agreement.

¹Approval by County Counsel is required

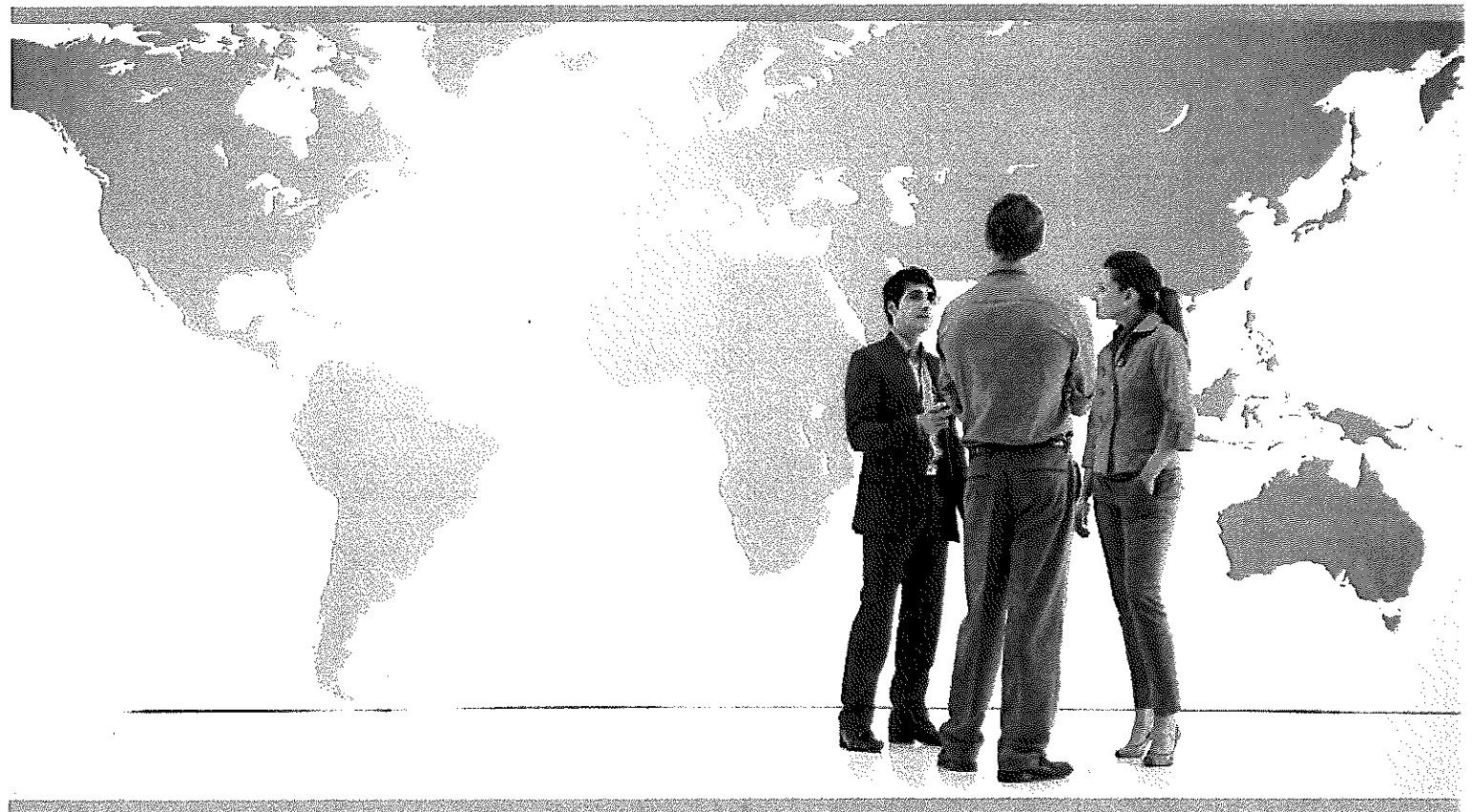
²Approval by Auditor-Controller is required

³Approval by Risk Management is necessary only if changes are made in paragraphs 8 or 9

Enterprise Network Upgrade

County of Monterey

Statement of Work



March 06, 2017
Version 0.01

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County of Monterey Enterprise Network Upgrade


Dimension Data Contact Details

We welcome any enquiries regarding this document, its content, structure or scope. Please contact:

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County of Monterey Enterprise Network Upgrade

Statement of Work

Contents

- 1. Executive Summary 6
- 2. Scope Definition..... 7
 - 2.1. Project Inception..... 7
 - 2.2. Enterprise Design Phase..... 7
 - 2.3. Network Core Replacement at Data Center..... 13
 - 2.4. Data Center ACI Deployment..... 16
 - 2.5. WAN Edge Network Upgrade At Data Center 23
 - 2.6. I-Net Backbone Upgrade to 10G 26
 - 2.7. Pilot Migration: Library & Health Sites Path Isolation 29
 - 2.8. Remaining Site Migrations..... 33
 - 2.9. InterVRF Routing and Firewall Migration..... 35
 - 2.10. Identity Services Engine Deployment..... 38
 - 2.11. Pilot Migration with ISE and TrustSec into VRFs – Library and Health 41
 - 2.12. Migration with ISE and TrustSec into appropriate VRFs – remaining sites ... 43
 - 2.13. Remote Site Backup Path via Internet Transport Services..... 45
 - 2.14. Common Solution Deliverables..... 47
 - 2.15. Project Management 49
- 3. Implementation Approach..... 53
 - 3.1. Timelines 53
 - 3.2. Communication Management 55
 - 3.3. Risk Management 56
 - 3.4. Change Management 56
 - 3.5. Client Responsibilities 58
- 4. Commercials 60
 - 4.1. Pricing Summary..... 60
 - 4.2. Pricing Assumptions..... 60
 - 4.3. Payment Milestones..... 61
- 5. Statement of Work Acceptance Sheet 62
 - 5.1. Governing Terms 62

Version 0.01 - March 06, 2017

County of Monterey Enterprise Network Upgrade

Appendix A Contact Information 63

Appendix B Primer Methodology..... 64

Appendix C Change Order Form..... 65

Appendix D Risk Register..... 67

Appendix E Document Precedence..... 68

List of Figures

Figure 1 - Network Core Replacement Conceptual Diagram 13

Figure 2 - WAN Edge Network Upgrade Conceptual Diagram 23

Figure 3 - I-Net Backbone Upgrade to 10G Conceptual Diagram 26

Figure 4 - Library Sites Path Isolation Conceptual Model..... 29

Figure 5 - Health Sites Path Isolation Conceptual Model 30

Figure 6 - Risk Management Process 56

Figure 7 - Change Management Process 57

Figure 8 - Project Delivery Process..... 64

List of Tables

Table 1 - Inception Tasks 7

Table 2 - Enterprise Design Phase Tasks 10

Table 3 - Enterprise Design Phase Deliverable(s) 11

Table 4 – Network Core Replacement Tasks..... 14

Table 5 - Network Core Replacement Deliverables..... 14

Table 6 - ACI Data Center Design Tasks..... 17

Table 7 – ACI Data Center Design Deliverables 17

Table 8 – Data Center ACI Build Tasks..... 19

Table 9 – ACI Data Center Build Deliverables..... 20

Table 10 – Data Center ACI Deployment Tasks..... 20

Table 11 - ACI Data Center Project Close Tasks..... 21

Table 12 - ACI Data Center Project Close Deliverable(s)..... 21

County of Monterey Enterprise Network Upgrade

Statement of Work

Table 13 - WAN Edge Migration Tasks..... 24

Table 14 - WAN Edge Migration Deliverables..... 24

Table 15 - I-Net Fiber Ring Upgrade Tasks 27

Table 16 - I-Net Fiber Ring Upgrade Deliverables 27

Table 17 - Pilot Migration: Library & Health Sites Path Isolation Tasks 31

Table 18 - Pilot Migration: Library & Health Sites Path Isolation Deliverables 32

Table 19 – Remaining Site Migration Tasks 33

Table 20 - Remaining Site Migration Deliverables 34

Table 21 – InterVRF Routing & Firewall Migration Tasks 36

Table 22 - InterVRF Routing & Firewall Migration Deliverables 37

Table 23 - Identity Services Engine Tasks 39

Table 24 - Identity Services Engine Deliverables..... 39

Table 25 - ISE Migration: Library & Health Sites Tasks 41

Table 26 - ISE Migration: Library & Health Sites Tasks 41

Table 27 - ISE Migration Remaining Sites Tasks..... 43

Table 28 - ISE Migration Remaining Sites Deliverables 43

Table 29 – Remote Site Internet Backup via Internet Transport Tasks 45

Table 30 Remote Site Internet Backup via Internet Transport Deliverables 46

Table 31 - Common Solution Deliverables..... 48

Table 32 - Project Management Deliverables & Tasks 50

Table 33 - Communication Plan 55

Table 34 - Pricing Summary 60

Table 35 - Milestone Payments Table 61

Table 36 - Contact Information 63

Table 37 - Risk Register 67

County of Monterey Enterprise Network Upgrade

1. Executive Summary

Dimension Data has crafted a comprehensive upgrade and proposes to partner with the County of Monterey to build a new network infrastructure designed to meet the requirements of today while being architecturally flexible and extendable to allow for tomorrow's needs.

Our proposal consists of several elements including service-provider grade technologies; these technologies include MultiProtocol Label Switching (MPLS), Dynamic Multiprotocol Virtual Private Networks (DMVPN), encryption solutions using MACSec, Firewalls, and Identity-based networking solution elements. These solution building blocks are comprised of industry leading products from Cisco and Palo Alto Networks consisting of Routers, Switches, Data Center Switches, and Security Appliances. Combined with the depth and breadth of the Dimension Data Professional Services, these offerings deliver the desired outcomes as expressed by the County.

The proposed project includes significant design efforts so that we 'measure twice and cut once' to avoid redundant work and missing both the desired outcome as well as desired project completion date(s). Our proposal is crafted so we can address both the immediate needs of the County (significantly reduce WAN traffic flowing through Data Center Core Devices) and also address the long term needs of providing path isolation and upgraded data-center networking services.

We recognize the critical need to perform knowledge transfer in both an informal and formal manner during this project. We envision working shoulder-to-shoulder throughout many aspects of the project and we are also providing more formal classroom-based training for the technology building blocks used in this proposal.

County of Monterey Enterprise Network Upgrade

Statement of Work

2. Scope Definition

This scope definition will describe the technical solutions being delivered by this Statement of Work.

If any of the assumptions in this scope definition are not met by County or are proven to be inaccurate, then the scope, timing or fees for this engagement may be changed at Dimension Data's discretion. These changes will be managed through the project change control process and may affect the project schedule and cost.

2.1. Project Inception

Initiate the project

Tasks	Responsible	Comments
Provide project management Coordination of all relevant project activities: <ul style="list-style-type: none"> • Scope management • Resource management • Risk management • Contact sheet 	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	
Facilitate project kick-off meeting	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	
Create project schedule	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	
Provide project status <ul style="list-style-type: none"> • Status meetings, minutes, action items • Progress reporting 	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	

Table 1 - Inception Tasks

2.2. Enterprise Design Phase

Dimension Data will design, plan and implement an updated network architecture to meet the business requirements and outcomes expressed by Monterey County. The focus of this phase is to gather detailed requirements for items that have a foundational impact and must addressed before additional project phases (including additional design work) can commence.

Dimension Data will perform the tasks outlined below to produce the framework for the County's Plan Design Workbook (PDW). The PDW will be a living document throughout the life of this project. In performing the tasks listed below, Dimension Data will host requirements gathering and design workshop sessions, review existing documentation, collaborate with County staff, and review existing device configurations.

Version 0.0.1 March 06, 2017

County of Monterey Enterprise Network Upgrade

2.2.1. Tasks

#	Task	Lead Task Owner	Description
D1	IP Addressing Plan Review	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Review existing IP addressing model/plan/design to assist in the development of new IP address design
D2	IGP Routing Configuration Review	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Review existing IGP/routing model/plan/design to assist in the development of new IPG and routing design
D3	DNS Configuration Review	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Review existing IGP/routing model/plan/design to assist in the development of new IP address design
D4A	Library Requirements Review	<input checked="" type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Participate in 1 day workshop to discuss, review, and document Library WAN connectivity requirements focusing on internal library users/staff and patron network access requirements.
D4B	Library Proxy Review	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Deep dive on existing Internet Access model/plan/design for Library Patrons to assist in the development of new IP address design and understanding of changes being made to PAN configuration by third party contactor working for the County.
D5	QoS Configuration Review	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Review existing QoS model/plan/design for WAN devices to assist in the development of updated QoS configurations for WAN devices
D6	Encryption Design Review	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Review existing encryption model/plan/design for WAN devices to assist in the development of updated encryption configurations for WAN & I-Net devices
D7	MPLS Core Planning & Design	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Planning and Design to implement MPLS core services to deploy a self-managed MPLS network
D8	MPLS over DMVPN Planning & Design	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Planning and Design to implement MPLS over DMVPN.

County of Monterey Enterprise Network Upgrade

Statement of Work

#	Task	Lead Task Owner	Description
D9	L2 VPN Services Planning & Design	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Planning and Design to configure layer 2 MPLS VPN services using the County's self-managed MPLS network. High level planning to support the future expansion of County's existing L2 VPN based P25 network.
D10	L3 VPN Services Planning & Design	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	<p>Planning and Design to configure layer 3 MPLS VPN services using the County's self-managed MPLS network.</p> <p>Planning and Design to configure the connectivity for services VRFs as well as internet access as per County's requirements.</p>
D11	QoS for MPLS Core Planning & Design	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Planning and Design for changes to QoS configuration for MPLS speaking devices in the County's self-managed MPLS network.
D12	Enterprise IP Addressing Plan Design	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Planning and Design for an Enterprise-Wide IP Addressing plan aligning with layer 3 path isolation services provided by MPLS Layer 3 VPNs.
D13	Enterprise VLAN Design	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Planning and Design for an Enterprise-Wide VLAN model aligning with layer 3 path isolation services and County reachability/accessibility requirements
D14	Business Partner Connectivity Design	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Planning and Design for transitioning business partner connectivity to support the Layer 3 path isolation model for the County's self-managed MPLS network
D15	MDCS/Cradlepoint Connectivity Design	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Planning and Design for supporting connectivity to MDCS connected devices via Cradlepoint 4G access circuits
D16	Connectivity Continuity Design	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Planning and Design to maintain connectivity during transition from legacy devices & architecture to new devices & architecture
D17	Encryption Design	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Design to implement encryption solution for WAN and I-Net devices.

Version: 0.01 - March 05, 2017

County of Monterey Enterprise Network Upgrade

#	Task	Lead Task Owner	Description
D18	InterVRF Routing	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Design InterVRF routing architecture to facilitate inter-VRF communication. Note: Security functions are addresses in further sections of this proposal. The focus and limit of this design task is around the "transport path" between VRFs.

Table 2 - Enterprise Design Phase Tasks

2.2.2. Deliverables

To meet the project phase completion schedule as per Monterey County any design change after the County has accepted and approved the Plan Design Workbook elements crafted in this project phase are likely to result in a change order. There is significant coupling of many of the design elements and a change to one item will likely require analysis and change to other items. Examples of this include:

- a. Changes to the number of VRFs
 - i. Likely Impacts: IP Addressing Plan, PE-CE design,
- b. Changes to the IP Addressing Plan
 - i. Impacts: InterVRF routing, PE-CE handoff design, device configuration and/or templates, and documentation.

Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed.

County of Monterey Enterprise Network Upgrade

Statement of Work

#	Deliverable	Description
1	Project Design Workbook (PDW) – Enterprise Design Elements WAN Design Elements	<p>Comprehensive Design Document containing:</p> <ol style="list-style-type: none"> 1. Logical network diagrams 2. Physical network diagrams 3. County-wide IP addressing schema 4. County-wide VLAN schema 5. MPLS Core IGP Design Elements 6. Layer 2 MPLS VPN Requirements 7. Layer 3 MPLS VPN Requirements & Path Isolation schema (VRF/VRF-lite) 8. InterVRF Routing Design 9. Encryption Design <ul style="list-style-type: none"> • DMVPN Design Elements • MACSec Design Elements 10. Per-site high-level assessment documenting: <ul style="list-style-type: none"> • Vendor provided 'worst-case' power load requirements. • Vendor provided electrical receptacle requirements. • Vendor provided HVAC environmental impact • Rack elevations of proposed equipment

Table 3 - Enterprise Design Phase Deliverable(s)

Version 0.01 - March 06, 2017

County of Monterey Enterprise Network Upgrade

2.2.3. Exclusions

1. Design/Analysis of internet edge routers, switches, and firewall(s) device(s) is out of scope. Dimension Data does not anticipate any changes to these elements are needed as per the RFQ requirements with respect to the desired ISP primary/failover strategy which will be implemented on MPLS enabled devices.

2.2.4. Assumptions

1. Dimension Data will be able to connect tools to assist in discovery and analysis to the current production network. The tools may be provisioned on physical devices or in VmWare virtual appliances.

County of Monterey Enterprise Network Upgrade

Statement of Work

2.3. Network Core Replacement at Data Center

Dimension Data is proposing to insert a pair of MPLS Provider Edge (PE) routers and VPNv4 Route Reflectors (RRs) to eliminate passing WAN traffic through the existing 4507 core switches. The diagram below provides a high-level overview of the connectivity at the completion of project phase. Lavender links denote a label switched path (MPLS) and black links note an IP based forwarding path. Black links attached to PE devices will be removed from the global routing table and will be placed into a virtual routing and forwarding table (VRF) in support of future project phases to implement path isolation.

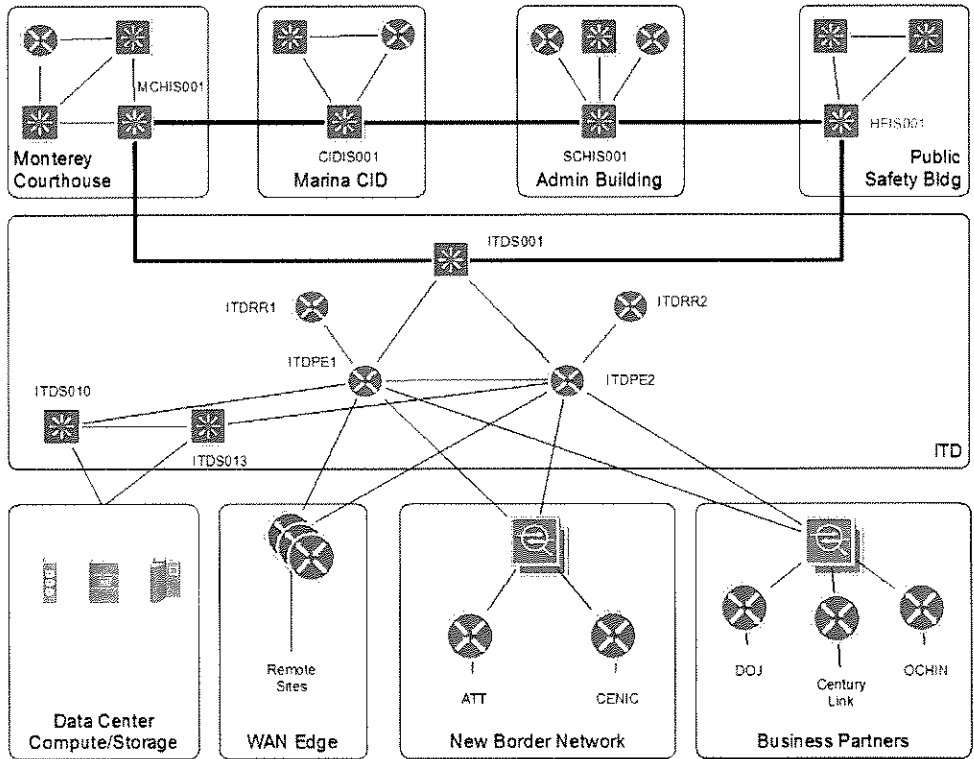


Figure 1 - Network Core Replacement Conceptual Diagram

As important as removing the legacy 4507s from passing WAN traffic is, the establishment of the MPLS core provides for the deployment and incremental growth of path isolation services from the Data Center to remote sites.

Version 0.01 March 06, 2017

County of Monterey Enterprise Network Upgrade

2.3.1. Tasks

#	Task	Lead Task Owner	Description
1	PE Configuration Development	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Using PDW (Design Documents) craft two MPLS PE configuration for new ASR 1002-HX devices
2	VPNv4 Route Reflector Configuration Development	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Using PDW (Design Documents) craft configuration for two new VPNv4 Route Reflectors
3	Hardware Setup	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Unbox, Setup and test hardware devices
4	MOP Development	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Develop Method of Procedure (MOP) detailing the change process to implement two MPLS Pes, VPNv4 RRs, and the InterVRF routing devices. Document includes pre-work data captures, detailed change steps, testing/verification procedures, rollback procedures (including rollback triggers).
5	Migration Event	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform migration as per MOP
6	Post Cutover Support	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Provide support post-change to address any issues which may arise.
7	Knowledge Transfer	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	

Table 4 – Network Core Replacement Tasks

2.3.2. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

#	Deliverable	Description
1	Update PDW	Update PDW with elements pertaining to this project phase including: <ol style="list-style-type: none"> 1. Device Configurations 2. Cable Mapping 3. As built-diagrams

Table 5 - Network Core Replacement Deliverables

2.3.3. Assumptions

For the purpose of this Statement of Work related to Network Core Replacement at Data Center, Dimension Data has assumed that:

County of Monterey Enterprise Network Upgrade

Statement of Work

1. NMS tools and scripts use loopback addresses and are not impacted if device link addressing changes.
2. NMS tools and scripts features/functions are not impacted with the introduction of MPLS VPN services.

2.3.4. Exclusions

Version 0.01 - March 06, 2017
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County of Monterey Enterprise Network Upgrade

2.4. Data Center ACI Deployment

Dimension Data will design, plan and implement a highly available and scalable Data Centre network solution using ACI to achieve the Monterey County requirement of network segmentation at the Data Center. The implementation includes:

- Production fabric build with: Three (3) APICs, Two (2) spines, and Twelve (12) leaf switches to accommodate County's computing needs
- Lab fabric build with: One (1) APIC, One (1) spine, and Two (2) leaf switches to accommodate County's Lab testing needs
- Both the ACI Fabric Builds with APIC Service involves establishing the requirements and developing the design and logical topology definition for deployment.
- Build out necessary number of tenants within the ACI Fabrics:
 - a. Up to ten (10) Tenants, up to four (4) L3 Outs, and up to four (4) L2 Outs per each Tenant (non-static path binding).
 - b. Up to 40 Endpoint Groups (EPG)/Bridge Domains (BD) for each Tenant.
 - c. The implementation will use the default contract ("allow all").
 - d. Dimension Data will craft two custom contracts (within one tenant) to serve as training for County Personnel in a non-production environment providing that application flow information (specific port and protocols) is provided.
- Layer 2 and Layer 3 connectivity to upstream L2 and L3 existing devices.
- The ACI Fabric Build will support connectivity to L4-L7 eco-system integration to a Palo Alto firewall cluster for the purpose of inter-VRF inspection, as well as integration with commonly used services such as DNS and DHCP etc. (County does not currently have any on-premises load balancers in the Data Centre).
- Opflex integration with compatible devices if the County of Monterey decides to adopt that method for the ACI/WAN integration.
- The ACI Fabric Build will support Hypervisor integration with VMware with vCenter, Datacenter and VMware distributed switches. The VMware integration will be towards a single (1) vCenter with up to twenty (20) ESXi hosts. The assumption is that the ESXi hosts each will be utilizing a consistent uplink design (ex: 2x or 4x 10G uplinks to two different leafs on matching leaf interfaces, those configured as trunks or VPCs) and connected to up to Twelve (12) EPGs per host.
- Dimension Data reserves the right to automate the ESXi configuration (but manually configuring one or two for training purpose - timelines permitting)
- L2-out will be configured to extend the ACI to the existing server farm connection using the existing legacy equipment such as Cisco 4507/3750/4548 switches. L3-out will be configured for routing traffic outside of ACI. Routing protocols used between ACI and other Data Center devices outside of ACI have to be compatible with County's existing OSPF routing standard.

2.4.1. ACI Data Center Design

2.4.1.1. Tasks

County of Monterey Enterprise Network Upgrade

Statement of Work

Tasks	Responsible	Comments
Create design document and test procedure <ul style="list-style-type: none"> Identify requirements and design principles Define testing criteria and plan Create design documentation 	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	Working together with customer
Review and approve complete design document and test procedure	<input checked="" type="checkbox"/> County <input type="checkbox"/> Dimension Data	County to provide written approval prior to Dimension Data starting the next phase of this project.

Table 6 - ACI Data Center Design Tasks

2.4.1.2. ACI Data Center Design Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

#	Deliverable	Description
1	Update PDW	Update PDW with elements pertaining to this project phase <ol style="list-style-type: none"> Design Requirements High Level Design Document Low Level Design Document

Table 7 – ACI Data Center Design Deliverables

2.4.2. ACI Data Center Build

2.4.2.1. Tasks

Tasks	Responsible	Comments
Prep production sites <ul style="list-style-type: none"> Rack space Structured Cabling AC power KVM with keyboard/mouse (for APIC) 	<input checked="" type="checkbox"/> County <input type="checkbox"/> Dimension Data	

Version 0.01 - March 06 - 2017

County of Monterey Enterprise Network Upgrade

Statement of Work

Tasks	Responsible	Comments
Configure NTP <ul style="list-style-type: none"> Configure ACI to receive time synchronization via existing County NTP services. 	<input checked="" type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	<p>County to provide information to Dimension Data about existing NTP deployment.</p> <p>County is responsible to perform any changes to the NTP system as needed to enable connectivity for new network devices.</p>
Configure Authentication <ul style="list-style-type: none"> Configure ACI to use existing County administration authentication system. 	<input checked="" type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	<p>County to provide information to Dimension Data about existing administrative authentication system(s).</p> <p>County is responsible to perform any changes to the authentication system as needed to enable connectivity for new network devices.</p>
Configure DNS <ul style="list-style-type: none"> Add DNS entries for new network infrastructure where required by County of Monterey 	<input checked="" type="checkbox"/> County <input type="checkbox"/> Dimension Data	
Energize power sources required for new network infrastructure	<input checked="" type="checkbox"/> County <input type="checkbox"/> Dimension Data	
Install Nexus 9000, and APIC hardware <ul style="list-style-type: none"> Rack mount unit into an County provided rack Power up unit Connect network cabling Hardware burn-in and validation 	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	<p>County of Monterey is responsible for providing power connectivity to the network infrastructure</p>

County of Monterey Enterprise Network Upgrade

Statement of Work

Tasks	Responsible	Comments
Connect network cabling <ul style="list-style-type: none"> Connect cables and transceivers between leaf and spine devices Connect cables and transceivers between APIC(s) and leafs 	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	County of Monterey to provide appropriate fiber optic cables for their specific uses and lengths
Connect Out-Of-Band(OOB) network cables <ul style="list-style-type: none"> All nexus switches and APICs will be connected to Out of Band (OOB) switch(s) 	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	
Upgrade software to agreed-upon standard software version for each model of equipment. (One of Dimension Data deliverables is a Software Standards table pre-defining all software versions) <ul style="list-style-type: none"> Upgrade Fabric to recommended version 	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	
Implement base configuration on ACI fabric Policy <ul style="list-style-type: none"> Switch policies Interface policies AAEP's Tenants Contexts/VRF's Bridge Domains EPG's Contracts (default) Administration/AAA (Tacacs, radius, etc.) 	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	County to provide ip address allocation for initial ACI configuration. Assigned allocation will be advertised to the rest of network via L3Out configuration. Dimension Data can provide worksheet and guidance regarding addressing allocation requirements
Test isolated build environment <ul style="list-style-type: none"> Connect 2 different laptops to 2 different switches in the fabric Configure ACI policy to allow communication between these two laptops Run basic functionality tests between laptops (IP reachability) 	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	Pure reachability testing only. No limit or scale testing.

Table 8 – Data Center ACI Build Tasks

2.4.2.2. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey

Version 0.01 March 06 2017

County of Monterey Enterprise Network Upgrade

County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

#	Deliverable	Description
1	Update PDW	Update PDW with elements pertaining to this project phase including: <ol style="list-style-type: none"> 1. Device Configurations 2. Cable Mapping 3. As built-diagrams

Table 9 – ACI Data Center Build Deliverables

2.4.3. ACI Data Center Deployment

2.4.3.1. Tasks

Tasks	Responsible	Comments
Configure and bring up Layer3 connectivity between ACI Fabric and DC Core <ul style="list-style-type: none"> • Configure IP's on relevant interfaces • Configure Routing (L3Out on ACI Fabric) between Fabric and adjacent upstream core (up to 2 existing devices) • Validate routing protocols establish adjacencies 	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	
Configure and bring up Layer2 connectivity between ACI Fabric and legacy network <ul style="list-style-type: none"> • Configure standard trunk link between legacy compute environment and ACI Fabric • Implement L2 policy to support legacy VLANs 	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	County of Monterey to provide VLANs and connectivity to legacy network. This connection will aid in application migrations and testing
Test and Validation <ul style="list-style-type: none"> • Laptops or acceptable endpoints will be connected to campus switches and ACI Leaf • Policy will be implemented on the ACI fabric to support test traffic flows • Reachability tests will be performed between campus and ACI endpoints • Reachability tests will be performed from ACI fabric endpoint(laptop) to defined IPv4 addresses in the County of Monterey network 	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	County of Monterey to provide reachable IPv4 addresses for testing purposes
Configure network monitoring tools (SNMP community strings, Syslog, SNMP trapping, , DNS, etc.)	<input checked="" type="checkbox"/> County <input type="checkbox"/> Dimension Data	
Knowledge Transfer	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	

Table 10 – Data Center ACI Deployment Tasks

County of Monterey Enterprise Network Upgrade

2.4.3.2. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

Deliverables	Responsible	Comments
Updated Project Design Workbook	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	

2.4.4. ACI Data Center Project Close

2.4.4.1. Tasks

Tasks	Responsible	Comments
Knowledge Transfer	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	Provide and Administrative Knowledge Transfer session covering ACI fabric deployment with basic policy configuration and L3 connectivity to upstream network and L2 connectivity to legacy computer environment
Project Close-out Meeting	<input type="checkbox"/> County <input checked="" type="checkbox"/> Dimension Data	

Table 11 - ACI Data Center Project Close Tasks

2.4.4.2. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

#	Deliverable	Description
1	Project Design Workbook	As-built documentation updated in Project Design Workbook and related documents

Table 12 - ACI Data Center Project Close Deliverable(s)

2.4.5. ACI Data Center Project Assumptions

County of Monterey Enterprise Network Upgrade

For the purpose of this portion of the project and in conjunction with other assumptions in the project, Dimension Data has assumed that:

- The most current version of supported ACI software will be deployed. The versions of software chosen by Dimension Data are dictated by Dimension Data's best practices and are measured for stability and reliability within our install base throughout the globe.
- While some ACI constructs (5-10) will be done manually for training and documentation purposes, the bulk of the build/configuration will be automated
- Dimension Data may decide to stage equipment at our off-site staging facility and then ship the staged equipment to site for final installation. At County's request, County personnel may visit the staging center to participate in the staging process. Visits must be coordinated through the Dimension Data project manager.
- If Dimension Data decides to stage equipment at County's site, County agrees to provide adequate space and access to stage the equipment.
- Dimension Data reserves the right to perform work and provide support remotely.

2.4.6. ACI Data Center Project Exclusions

The following assumptions and exclusions have been made in arriving at the cost and effort estimates for this project, and therefore, should be provided or procured by County:

- Any item, task, equipment, or service not explicitly listed or provided for in this Statement of Work is not included in this project, including those exclusions expressly stated below
- Dimension Data will design and configure an OOB management system for the provided equipment to be installed in the Data Center; however the required hardware and other essentials (power, optics, cabling, licensing addressing) is to be provided by the customer (ex: stackable 48port switches with redundant power supplies and IP base license should be sufficient)
- The individual Palo Alto firewalls local configurations are covered under a separate phase in this project. The level of effort described in this ACI SoW is pertaining to the required APIC configuration in order to integrate with fully configured firewalls. If Monterey County awards the Firewall implementation phase to Dimension Data, or another integrators of their choice, that party will be responsible for the local Firewall design and configuration as a separate phase. In this case it is expected that an explicit, detailed, low level design of the connectivity requirements between the Firewall(s) and the fabric will be provided for implementation.
- Environmental variables, such as UPS power or cooling
- Fiber optic integrity
- Desktop, servers, and other end point connections
- Printer connections
- Ancillary device connections
- Applications issues and troubleshooting
- Server rebooting and connections
- Upgrades to existing equipment
- Premise facilities and any cabling (patch cables, special cables, serial cables, etc.)
- Telecommunication circuits provisioning, troubleshooting and tracking
- Loading dock access for receiving equipment
- Adequate floor space to store and stage the equipment
- Access to a secure area for staging and configuration

County of Monterey Enterprise Network Upgrade

Statement of Work

- Adequate power to terminate the equipment
- Network access to terminate the equipment
- Disposal services to remove boxes and packing materials
- Migration of legacy applications into ACI fabric
- Load testing or scale testing of ACI fabric
- Layer 4 – 7 integration (not integrated, unmanaged or managed) to ACI fabric is out of scope (it is expected that East-West traffic will be enforced within the Data Center fabric via contracts in a subsequent phase)

2.5. WAN Edge Network Upgrade At Data Center

The goal of this project phase is to extend MPLS services to the WAN edge devices supporting connectivity to non I-net sites. This process includes the retirement of legacy WAN devices which have reached end-of-life support milestones and transitioning WAN access circuits to optimize primary and backup connectivity for remote sites. The diagram below depicts the high-level end-state network topology. Note that not all links to the WAN block from the MPLS core are shown in this conceptual diagram.

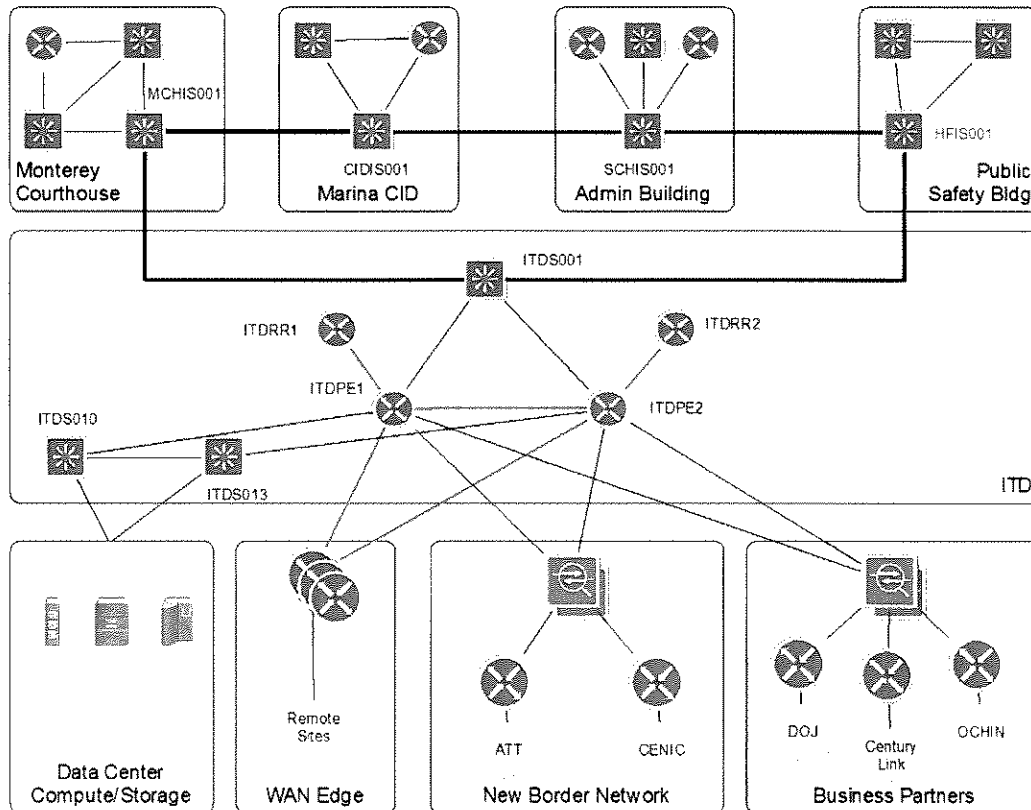


Figure 2 - WAN Edge Network Upgrade Conceptual Diagram

Version: 0.01 March 06, 2017

County of Monterey Enterprise Network Upgrade

2.5.1. Tasks

#	Task	Lead Task Owner	Description
1	WAN Edge PE Configuration Development – PRIVATE TRANSPORT	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Using PDW (Design Documents) craft PE configuration for WAN Edge devices providing access for non I-Net Sites. WAN edge PE devices will be providing MPLS over DMVPN services to remote sites and will provide encryption to public safety sites.
2	Circuit & Interface Change Mapping	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Document plan to move circuits current hardware to new hardware.
3	Hardware Setup	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Unbox, Setup and test hardware devices
4	Testing of WAN Edge Devices	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Test end-to-end reachability for simulated remote sites via new WAN Edge device configuration(s).
4	MOP Development	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Develop Method of Procedure (MOP) detailing the change process to implement WAN Edge changes. Document includes pre-work data captures, detailed change steps, testing/verification procedures, rollback procedures (including rollback triggers).
5	Migration Event	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform migration as per MOP
6	Post Cutover Support	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Provide support post-change to address any issues which may arise.
7	Knowledge Transfer	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	

Table 13 - WAN Edge Migration Tasks

2.5.2. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

#	Deliverable	Description
1	Update PDW	Update PDW with elements pertaining to this project phase including: <ol style="list-style-type: none"> 1. Device Configurations 2. Cable Mapping 3. As built-diagrams

Table 14 - WAN Edge Migration Deliverables

County of Monterey Enterprise Network Upgrade

2.5.3. Assumptions

There are no additional assumptions for this portion/phase of this Statement of Work.

Statement of Work

Version 0.01 March 06, 2017

County of Monterey Enterprise Network Upgrade

2.6. I-Net Backbone Upgrade to 10G

This project phase will provide a 10 gigabit transport path using the existing I-Net fiber and the upgrade of the network devices connected to the I-Net fiber. Dimension Data is proposing deploying redundant devices at key I-Net sites to provide for high-availability for end users in the local site as well as sites using I-Net nodes for network access. The diagram below also depicts the conceptual end-state configuration.

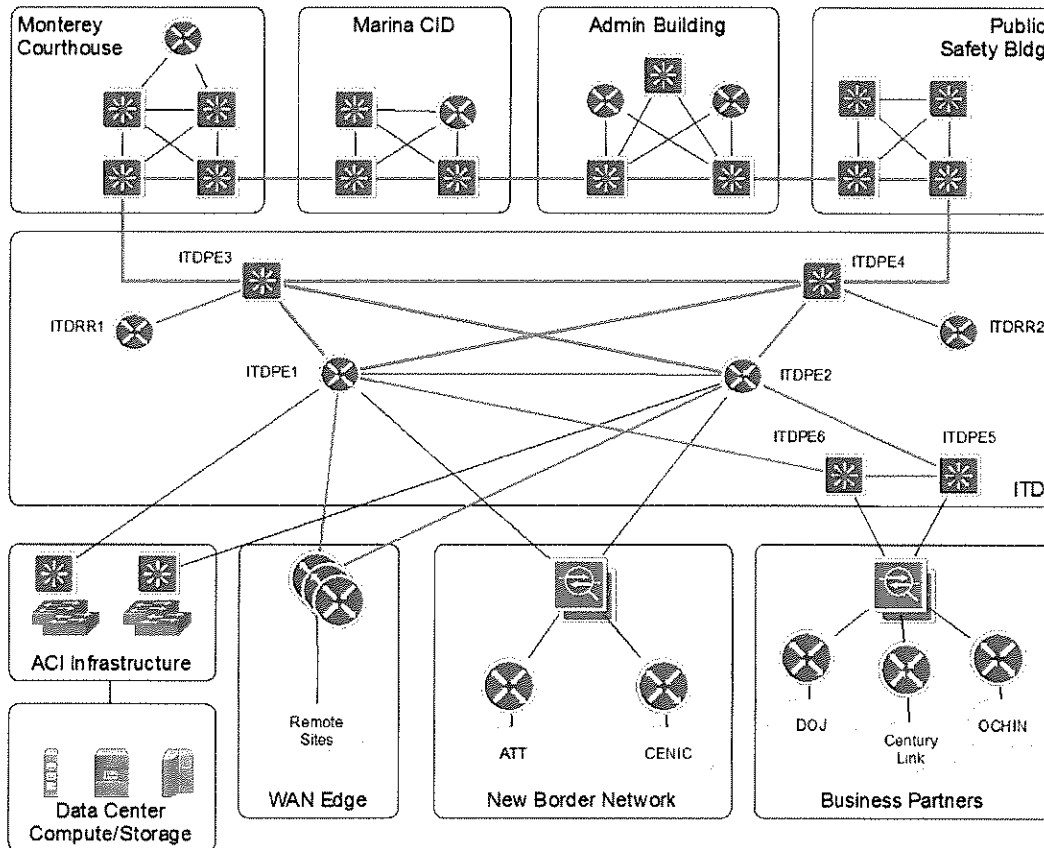


Figure 3 - I-Net Backbone Upgrade to 10G Conceptual Diagram

2.6.1. Tasks

#	Task	Lead Task Owner	Description
1	I-Net PE Configuration Development	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Using PDW (Design Documents) craft PE configuration for I-Net devices providing access for I-Net Sites
2	Hardware Staging	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Unbox, Setup and test hardware devices in preparation for configuration application and testing

County of Monterey Enterprise Network Upgrade

Statement of Work

#	Task	Lead Task Owner	Description
3	10G I-Net Testing	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Testing existing fiber plan for 10G capabilities/function
4	Testing of WAN Edge Devices	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Test new I-Net devices to validate proper function of configured features including device failover
4	MOP Development	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Develop Method of Procedure (MOP) detailing the change process to implement I-Net. Document includes pre-work data captures, detailed change steps, testing/verification procedures, rollback procedures (including rollback triggers).
5	Migration Event	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform migration as per MOP
6	Post Cutover Support	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Provide support post-change to address any issues which may arise.
7	Knowledge Transfer	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	

Table 15 - I-Net Fiber Ring Upgrade Tasks

2.6.2. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

#	Deliverable	Description
1	Update PDW	Update PDW with elements pertaining to this project phase including: <ol style="list-style-type: none"> 1. Device Configurations 2. Cable Mapping 3. As built-diagrams 4. Per-site high-level assessment documenting: <ul style="list-style-type: none"> • Power load requirements • Electrical receptacle requirements (quantity, type, etc.), • HVAC environmental impact • Rack elevations of proposed equipment

Table 16 - I-Net Fiber Ring Upgrade Deliverables

2.6.3. Assumptions

There are no additional assumptions for this portion/phase of this Statement of Work.

Version 0.01 March 06 2017

County of Monterey Enterprise Network Upgrade

Statement of Work

Version 0.01 March 06, 2017
0

County of Monterey Enterprise Network Upgrade

Statement of Work

2.7. Pilot Migration: Library & Health Sites Path Isolation

Monterey County has requested that the first remote sites to be transitioned to the new path isolation model will be Libraries and Health sites. Our approach to meet this requirement is to create a document called a 'method of procedure' (MOP) which initially is built as a general document and develops into a document that has site and device specific tasks. The MOP serves as a 'playbook' that the entire team uses during the change operation. The MOP defines tasks to be performed prior, during, and after the change operation. The MOP also defined change-window success criteria as well as a detailed rollback plan (including verification process) and rollback triggers. The diagrams below provide a conceptual overview of the Library and Health sites following the completion of this project phase.

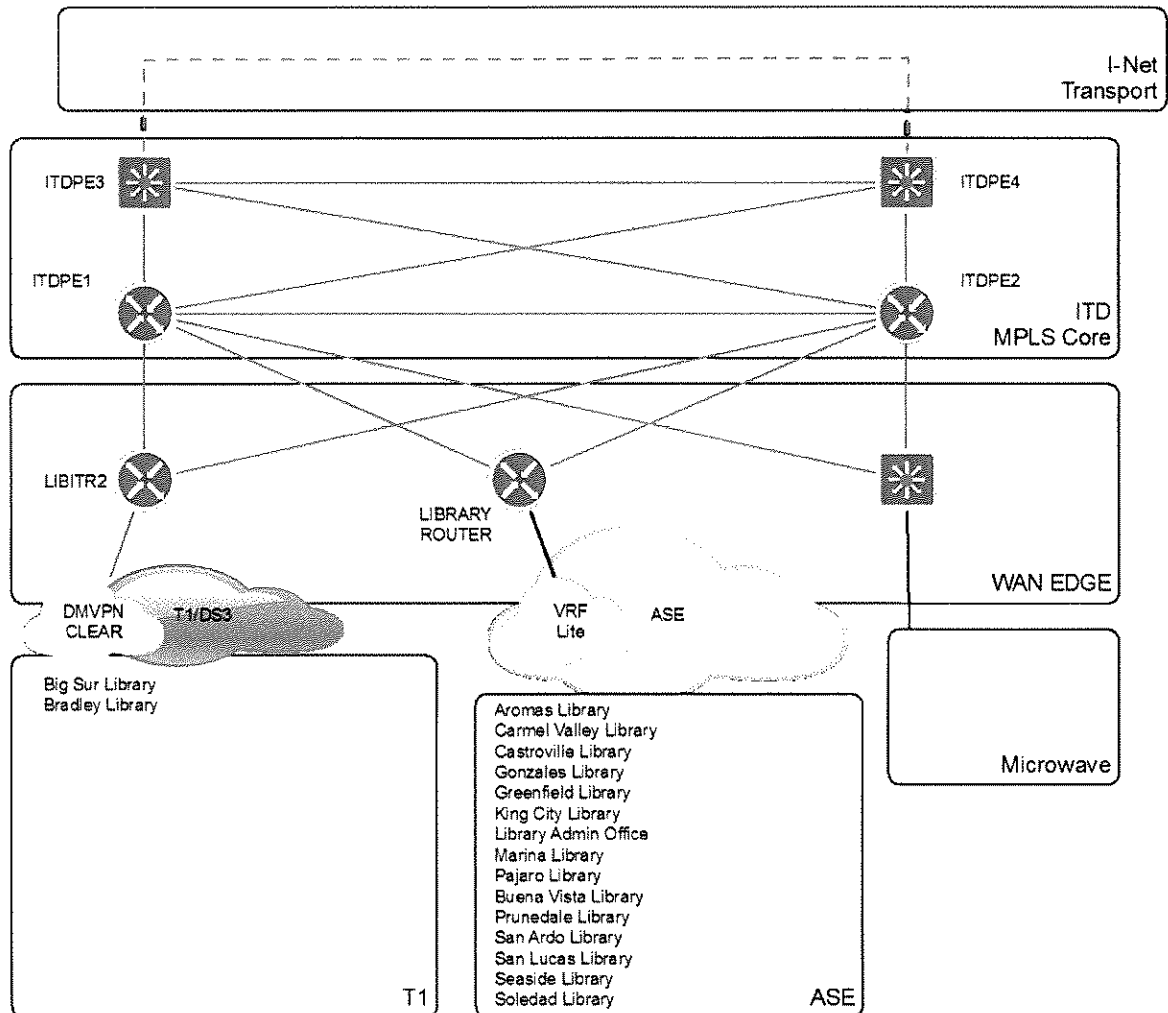


Figure 4 - Library Sites Path Isolation Conceptual Model

Version 0.01 March 06, 2017

County of Monterey Enterprise Network Upgrade

Statement of Work

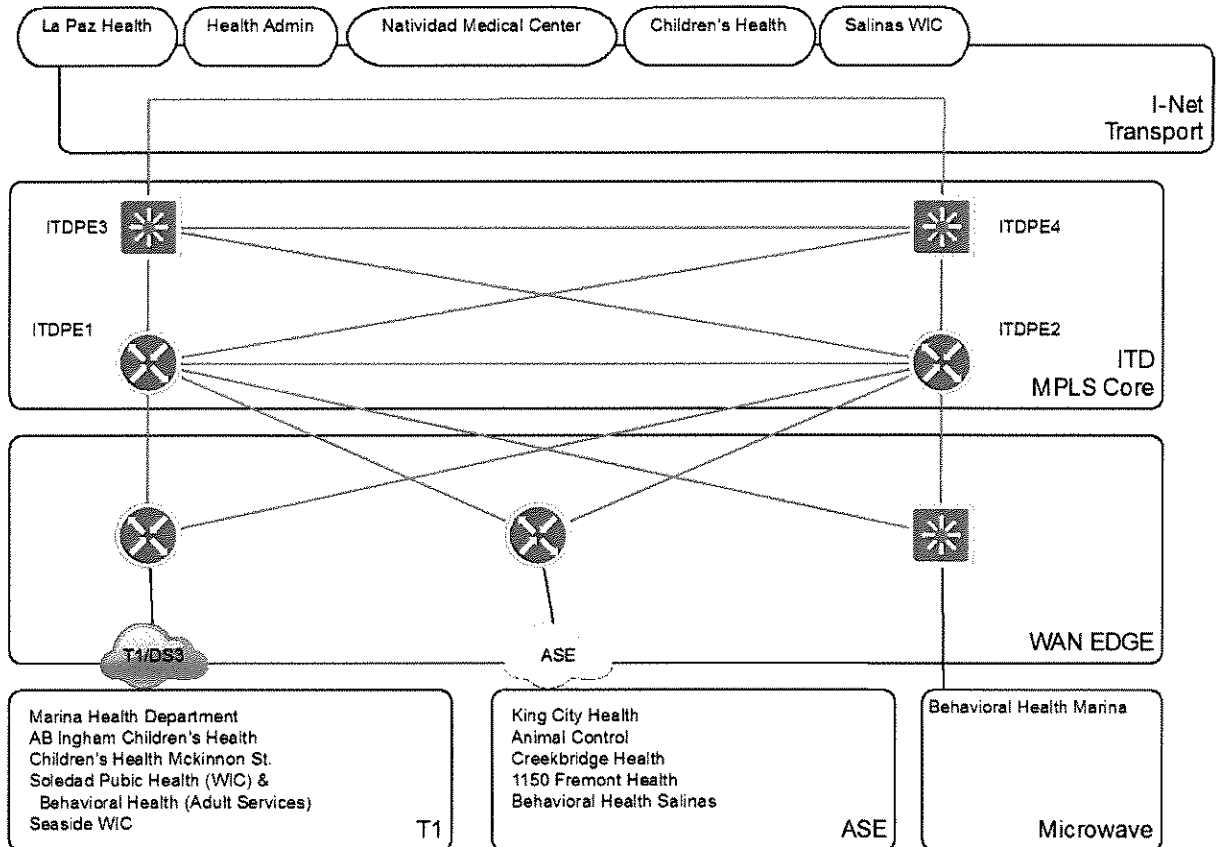


Figure 5 - Health Sites Path Isolation Conceptual Model

Both the Library Site and Health Site conceptual diagrams only depict the transport changes to the site including physical circuits and network access media/paths. Logical elements including access to shared services, internet, and data center compute resources are omitted from this diagram for clarity.

2.7.1. Tasks

#	Task	Lead Task Owner	Description
1	Library Device Configuration Updates	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Using PDW (Design Documents) craft configuration for Library head-end and remote-site devices.
2	Develop MOP for Library-supporting devices	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Develop MOP document on a per-site basis detailing the change process. Document includes pre-work data captures, detailed change steps, testing/verification procedures, rollback procedures (including rollback triggers).

Version 0.01 March 06, 2017

County of Monterey Enterprise Network Upgrade

Statement of Work

#	Task	Lead Task Owner	Description
3	Develop Test Plan	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Document testing/validation procedure to be performing during Library Migration Change Window
4	Library Migration Event	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform migration as per MOP. Test to validate proper function of configured features including device failover
6	Library Post Cutover Support	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Provide support post-change to address any issues which may arise.
7	Library Knowledge Transfer	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	
8	Health Device Configuration Updates	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Using PDW (Design Documents) craft configuration for head-end and remote-site devices.
8	Develop MOP for Health-supporting devices	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Develop MOP document on a per-site basis detailing the change process. Document includes pre-work data captures, detailed change steps, testing/verification procedures, rollback procedures (including rollback triggers).
10	Develop Test Plan	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Document testing/validation procedure to be performing during Health Migration Change Window
11	Health Router Staging & Installation	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Unbox/Configure/Test remote site router(s). Install new equipment at appropriate sites
12	Health Migration Event	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform migration as per MOP. Test to validate proper function of configured features including device failover
13	Health Post Cutover Support	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Provide support post-change to address any issues which may arise.
14	Health Knowledge Transfer	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	

Table 17 - Pilot Migration: Library & Health Sites Path Isolation Tasks

2.7.2. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

Version 0.61 March 06, 2017

County of Monterey Enterprise Network Upgrade

Statement of Work

#	Deliverable	Description
1	Update PDW	Update PDW with elements pertaining to this project phase including: <ol style="list-style-type: none"> 1. Device Configurations 2. Cable Mapping 3. As built-diagrams 4. Per-site high-level assessment documenting: <ul style="list-style-type: none"> • Power load requirements • Electrical receptacle requirements (quantity, type, etc.), • HVAC environmental impact • Rack elevations of proposed equipment

Table 18 - Pilot Migration: Library & Health Sites Path Isolation Deliverables

2.7.3. Assumptions

For the purpose of this Statement of Work related to Library & Health Site Migrations, Dimension Data has assumed that:

1. County provided information in Appendix E and Appendix C provides accurate information as to the equipment and licensing that is currently installed at each Library site.
2. County provided information in Appendix E detailing current hardware at ITD and data circuits are accurate.
3. All locations and sites requiring hardware installation have existing 19" racks with available capacity/space of no more than 4RU per location.
4. LAN switch configuration changes needed to provide connectivity between WAN devices will be performed by the County.
5. All tasks for pertaining to Library site migration/change window(s) will be performed from a central location.

2.7.4. Exclusions

1. All hardware for Library facilities has/will be installed by the County of Monterey.
2. Library Site Diagrams detailing cabling, rack layout, and other physical aspects of the site are out of scope.

County of Monterey Enterprise Network Upgrade

2.8. Remaining Site Migrations

Building upon the Method of Procedure (MOP) crafted for the Pilot Migration, Dimension Data will work with the County to complete the migration of the remaining sites. We estimate that there are approximately 60 sites to be migrated during this project phase. There are 6 sites which Dimension Data has identified as 'complex'. This designation is given for multiple reasons including the size of the site, multitenant services/role, number, type, and configuration of WAN access paths. The complex sites are: Schilling, Quadrangle, 911 Center, Public Safety Building (Sheriff's Department), East Laurel Yard, and Government Center. Dimension Data plans on providing on-site resources during migration events for the locations listed above with the County providing on-site resources for all other sites. Dimension Data will have overall responsibility to ensure the successful completion of all site migrations. Monterey County will be playing key role in the execution of this project phase by performing on-site hardware installation and support during the migration events.

2.8.1. Tasks

#	Task	Lead Task Owner	Description
1	MOP Revision/Changes for Head-End Devices	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Revise and update MOP document for head-end PE changes. Head-End devices include all PE devices/device types.
2	New Hardware Staging	<input checked="" type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Unbox/Configure/Test remote site router(s).
3	Per-Site MOP Development – Complex Sites	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Develop MOP document on a per-site basis detailing the change process. Document includes pre-work data captures, detailed change steps, testing/verification procedures, rollback procedures (including rollback triggers).
4	Per-Site MOP Development	<input checked="" type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Develop MOP document on a per-site basis detailing the change process. Document includes pre-work data captures, detailed change steps, testing/verification procedures, rollback procedures (including rollback triggers).
5	Hardware Installation	<input checked="" type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform physical device installation. This may be part of the MOP or a preparatory task. Please refer to assumptions below.
6	Migration Event	<input checked="" type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform migration as per MOP on a per-site basis. Test to validate proper function of configured features including device failover
7	Post Migration Support	<input checked="" type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Provide support post-change to address any issues which may arise.
8	Knowledge Transfer	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	

Table 19 – Remaining Site Migration Tasks

County of Monterey Enterprise Network Upgrade

2.8.2. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

#	Deliverable	Description
1	Update PDW	Update PDW with elements pertaining to this project phase including: <ol style="list-style-type: none"> 1. Device Configurations 2. Cable Mapping 3. As built-diagrams 4. Per-site high-level assessment documenting: <ul style="list-style-type: none"> • Power load requirements • Electrical receptacle requirements (quantity, type, etc.), • HVAC environmental impact • Rack elevations of proposed equipment

Table 20 - Remaining Site Migration Deliverables

2.8.3. Assumptions

For the purpose of this Statement of Work related to this phase, in addition to overall project assumptions, Dimension Data has additionally assumed that:

1. Schilling, Quadrangle, 911 Center, Social Services (Broadway), East Laurel Yard, and Seaside OET have existing 19" racks with available capacity/space of no more than 4RU per location..
2. For all sites in which Monterey County provides on-site support and/or hardware installation, Monterey County will collect data needed to complete the per site documentation as per the RFQ.

County of Monterey Enterprise Network Upgrade

2.9. InterVRF Routing and Firewall Migration

To provide for secure connectivity between the layer 3 path isolated entities (VRFs), Dimension Data is proposing to use a combination of devices to provide routing and security functions. Following the paradigm of 'right device, right purpose' we are proposing to use network-centric device(s) for routing functions and security devices for security functions. The operational benefit of this is that were a routing problem to be identified, Monterey County would be able to contact a single vendor to assist with troubleshooting. The critical nature that the InterVRF routing warrants a single vendor solution for ongoing ease of operation and troubleshooting. Security functions will be implemented with the multiple contexts of the PAN firewall, one per VRF. The design work for the architecture of the routing services has been previously crafted during the Enterprise Design Phase of this project.

2.9.1. Tasks

#	Task	Lead Task Owner	Description
1	Design Workshop	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	High Level and Low Level Design workshops
2	Data Gathering and Analysis	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Data Gathering and analysis of already created PDW (Design Documents) to assist in planning for the new FW deployment
3	Develop detailed design document	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Development of Requirements Definition, High Level Design, and Low Level Design documents
4	Develop Test Plan	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Development of formal test and acceptance plans
5	Unbox/Setup/Test InterVRF Switches	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Unbox/Configure/Test a pair of Catalyst 3850 devices and prepare them for configuration.
6	Rack, Stack, Cable, Install HW/SW	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Staging, physical installation, cabling, and initial base configuration of PAN appliances
7	InterVRF Routing Configuration Crafting	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Craft device configurations using design elements from 'Enterprise Design Phase' Account for inclusion for PAN integration to provide for Security functions.
8	MOP Development	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Develop MOP document on a per-VRF basis detailing the change process. Document includes pre-work data captures, detailed change steps, testing/verification procedures, rollback procedures (including rollback triggers).
9	Configure Management Server	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Setup and configuration of Panorama to configure and manage Inter VRF FWs as well as virtual systems being migrated to PAN from ASAs

County of Monterey Enterprise Network Upgrade

#	Task	Lead Task Owner	Description
10	Configure HA	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Configure FWs for High Availability per Design Document
11	Configure FW Policies – Migrate policies from ASA	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Configure Policies for approximately 7 Virtual systems based on individual VRFs. Actual model will depend on original PDW (Design Document) for actual VRF count and FW design. Configure Policies for 6 Virtual systems to replace the existing ASA pairs
12	Basic IDS/IPS and Wildfire polices	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Configure 1 basic Threat prevention policy and 1 basic Wildfire policy to be applied to the appropriate virtual systems per Design document
13	Hardware Installation	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform physical device installation. This may be part of the MOP or a preparatory task.
14	Deploy Policies to FWs	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Deploy policies from Panorama to virtual systems
15	Pre-Production Testing	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Pre-production Testing of virtual systems for each VRF and migrated FW based on earlier defined test plan
16	Failover Testing	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform failover testing to ensure proper redundancy
17	Migration Event	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform migration as per MOP on a per-site basis. Test to validate proper function of configured features including device failover
18	Post Migration Support	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Provide support post-change to address any issues which may arise.
19	Knowledge Transfer	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Handover, solution review, and knowledge transfer for Monterey administrative and operational personnel

Table 21 – InterVRF Routing & Firewall Migration Tasks

2.9.2. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

#	Deliverable	Description
1	Update PDW	Update PDW with elements pertaining to this project phase including: <ol style="list-style-type: none"> 1. Device Configurations 2. Cable Mapping 3. As built-diagrams 4. Per-site high-level assessment documenting: <ul style="list-style-type: none"> o Power load requirements o Electrical receptacle requirements (quantity, type, etc.), o HVAC environmental impact o Rack elevations of proposed equipment

County of Monterey Enterprise Network Upgrade

Statement of Work

#	Deliverable	Description
2	1 PAN HLD	PAN High Level Design Document (to be integrated into PDW)
3	1 PAN LLD	PAN Low Level Design Document (to be integrated into PDW)
4	1 Test Plan	Test and Acceptance plan (to be integrated into PDW)

Table 22 - InterVRF Routing & Firewall Migration Deliverables

2.9.3. Assumptions

For the purpose of this Statement of Work related to this phase, in addition to overall project assumptions, Dimension Data has additionally assumed that:

1. Changes to the design requirements following the Enterprise Design Phase may require a change order. Example of this would include:
 - Including additional firewall devices/contexts to the migration effort
 - Firewall Rule Optimization
 - Including additional services beyond those documented in the RFQ and RFQ addenda.
2. No URL filtering or SSL decryption will be performed in any of the virtual systems.
3. 1 Basic Threat Prevention and 1 basic Wildfire policy will be built and applied to the appropriate virtual systems based on the design document.

County of Monterey Enterprise Network Upgrade

2.10. Identity Services Engine Deployment

2.10.1. Tasks

#	Task	Lead Task Owner	Description
1	Design Workshop	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	High Level and Low Level Design workshops
2	Data Gathering and Analysis	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Data Gathering and analysis of already created PDW (Design Documents) to assist in planning for the ISE deployment.
3	Develop detailed design document	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Development of Requirements Definition, 1 High Level Design, and 1 Low Level Design document
4	Develop Test Plan	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Development of 1 formal test and acceptance plans
5	Install ISE VMs	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Virtual machine installation and initial configuration of 2 ISE virtual appliances
6	Initial ISE node configuration	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Configuration of ISE nodes/ISE node roles (High availability, Certificates, Baseline Configuration, AD integration)
7	Configure authentication policy	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Configuration of authentication policies according to Design Documents (up to 3 + Device Administration)
8	Configure authorization policy	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Configuration of authorization policies according to Design Documents (Individual VRF/SGT/VLAN assignment, Guest services, MAB) Up to 12 policies + 1 common TACACS authorization policy
9	Configure Guest Services	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Configuration of single guest services use case according to Design Documents
10	Configure profiling	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Configuration of profiling according to Design Documents and using built in ISE profiles
11	Configure advanced customizations	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Configuration of TrustSec policy/policies according to Design Documents. Per VRF design, up to 7 SGTs for VRFs and up to 3 additional for common groups
12	Deploy policies / base configurations	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Creation and Deployment of baseline NAD configurations to one each of the lab switch types (3650, 3850). Deployment of baseline configuration on test WLAN in demo lab Meraki environment
13	Pre-production testing - lab	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform pre-production testing of authentication and authorization policies, including SGT/SGACL deployment where necessary in lab environment. Testing to be done for Monitor mode (wired only) and low impact mode phases. Testing of TACACS services.
14	Failover testing	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform failover testing
15	Handover / Knowledge transfer	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Handover, solution review, and knowledge transfer of existing ISE deployment in preparation for following ISE pilot and production rollout stages

County of Monterey Enterprise Network Upgrade

Statement of Work

Table 23 - Identity Services Engine Tasks

2.10.2. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

#	Deliverable	Description
1	Updated PDW	
2	ISE HLD	1 ISE High Level Design Document (to be integrated into PDW)
3	ISE LLD	1 ISE Low Level Design Document (to be integrated into PDW)
4	Test Plan	1 Test and acceptance plan (to be integrated into PDW)
5	Device templates	Device templates for ISE configuration for 3850 and 3650 access switches (to be integrated into PDW)

Table 24 - Identity Services Engine Deliverables

2.10.3. Assumptions

For the purpose of this Statement of Work related to this phase, in addition to overall project assumptions, Dimension Data has additionally assumed that:

1. ISE Design workshops will not exceed 3 days
2. A single High Level Design document will be produced for the solution
3. A single Low Level Design document will be produced for the solution
4. Up to 7 wired 802.1x policy rules and up to 5 MAB policy rules
5. Out-of-box Cisco ISE profiles will be used. No custom profiler profiles will be developed.
6. Testing and official test plan to be conducted within the LAB environment
7. Up to 12 use cases to be tested in the LAB
8. Development of up to 2x configuration / template types for up to 5 Cisco switch families that support the required 802.1x and RADIUS features
9. Development of up to 1x Anyconnect NAM supplicant templates
10. Consultation of up to 1x Windows native supplicant configuration modifications for Windows 7, 8, and 10.
11. All other supplicant types will be handled through consultation only based on the Windows or Anyconnect deployment
12. Appropriate resources, to be defined in ISE HLD, will be available to the ISE VMs per the required design specifications from Cisco for the correct endpoint count
13. Client will perform software upgrades, to be defined in ISE HLD, to all LAN switching devices as required.

Version 0.01 March 06, 2017

County of Monterey Enterprise Network Upgrade

2.10.4. Exclusions

1. Endpoint OS or application related troubleshooting where authentication issues are identified is not within scope for supplicants other than Cisco Anyconnect beyond identifying authentication issues within ISE.
2. Changes to Existing Network Topology or device configuration are outside of the project scope
3. Business processes and methodology changes. E.g. modifications to helpdesk operations, or end user communications are not within scope.
4. HTML customization of portals are not within scope
5. Active Directory database configuration and troubleshooting will be provided by the client
6. Client site LAN switch and other remote-site device configuration
7. This includes client supplicate configurations outside of the stated deliverables and any management center that may be required for Apple OSX.
8. Active Directory certificate configuration
9. Active Directory Group policy configuration
10. Active Directory logon scripting
11. Any modification or configuration of the PKI or CA server environment
12. End-user documentation
13. Software deployment that is required to meet the deliverables
14. Any Cisco ISE features outside of what is described in the deliverables

County of Monterey Enterprise Network Upgrade

Statement of Work

2.11. Pilot Migration with ISE and TrustSec into VRFs – Library and Health

2.11.1. Tasks

#	Task	Lead Task Owner	Description
1	Data Gathering and Analysis	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Data Gathering and analysis of already created PDW (Design Documents) and previously deployed VRF information at pilot locations
2	Migration/Cut over	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Monitor mode assistance and troubleshooting after County deploys base configurations to Pilot 3650 and 3850 switches per lab testing. Assistance and troubleshooting with wireless cutover at pilot sites per lab testing.
3	Migration/Cut over testing	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Access testing at Pilot sites for correct VRF assignment and segmentation / Guest access
4	Next Day Support	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Next day support after pilot site ISE integration
5	Handover / Knowledge Transfer	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Handover, solution review, and knowledge transfer for administrative and operational staff in preparation for remaining production rollout

Table 25 - ISE Migration: Library & Health Sites Tasks

2.11.2. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

#	Deliverable	Description
1	No specific document deliverables for this phase	

Table 26 - ISE Migration: Library & Health Sites Tasks

2.11.3. Assumptions

For the purpose of this Statement of Work related to this phase, in addition to overall project assumptions, Dimension Data has additionally assumed that:

1. ISE Design workshops will not exceed 3 days
2. A single High Level Design document will be produced for the solution
3. A single Low Level Design document will be produced for the solution
4. Up to 7 wired 802.1x policy rules and up to 5 MAB policy rules

Version 0.01 - March 06, 2017

County of Monterey Enterprise Network Upgrade

5. Out-of-box Cisco ISE profiles will be used. No custom profiler profiles will be developed.
6. Testing and official test plan to be conducted within the LAB environment
7. Up to 12 use cases to be tested in the LAB
8. Development of up to 2x configuration / template types for up to 5 Cisco switch families that support the required 802.1x and RADIUS features
9. Development of up to 1x Anyconnect NAM suppliant templates
10. Consultation of up to 1x Windows native supplicant configuration modifications for Windows 7, 8, and 10.
11. All other supplicant types will be handled through consultation only based on the Windows or Anyconnect deployment
12. Appropriate resources, to be defined in ISE HLD, will be available to the ISE VMs per the required design specifications from Cisco for the correct endpoint count
13. Client will perform software upgrades, to be defined in ISE HLD, to all LAN switching devices as required.

2.11.4. Exclusions

1. Endpoint OS or application related troubleshooting where authentication issues are identified is not within scope for supplicants other than Cisco Anyconnect beyond identifying authentication issues within ISE.
2. Changes to Existing Network Topology or device configuration are outside of the project scope
3. Business processes and methodology changes. E.g. modifications to helpdesk operations, or end user communications are not within scope.
4. HTML customization of portals are not within scope
5. Active Directory database configuration and troubleshooting will be provided by the client
6. Client site LAN switch and other remote-site device configuration
7. This includes client supplicate configurations outside of the stated deliverables and any management center that may be required for Apple OSX.
8. Active Directory certificate configuration
9. Active Directory Group policy configuration
10. Active Directory logon scripting
11. Any modification or configuration of the PKI or CA server environment
12. End-user documentation
13. Software deployment that is required to meet the deliverables
14. Any Cisco ISE features outside of what is described in the deliverables

County of Monterey Enterprise Network Upgrade

Statement of Work

2.12. Migration with ISE and TrustSec into appropriate VRFs – remaining sites

2.12.1. Tasks

#	Task	Lead Task Owner	Description
1	Data Gathering and Analysis	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Data Gathering and analysis of already created PDW (Design Documents) and previously deployed Pilot locations
2	Migration/Cut over	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Monitor mode assistance and troubleshooting after County deploys base configurations to remaining production 3650 and 3850 switches per lab and pilot testing. Assistance and troubleshooting with wireless cutover at pilot sites per lab and pilot testing.
3	Migration/Cut over testing	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Access testing at initial production sites for correct VRF assignment and segmentation / Guest access
4	Next Day Support	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Next day support after remaining production site ISE integration
5	Handover / Knowledge Transfer	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Handover, solution review, and knowledge transfer for administrative and operational staff

Table 27 - ISE Migration Remaining Sites Tasks

2.12.2. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

#	Deliverable	Description
1	No specific document deliverables for this phase	

Table 28 - ISE Migration Remaining Sites Deliverables

2.12.3. Assumptions

For the purpose of this Statement of Work related to this phase, in addition to overall project assumptions, Dimension Data has additionally assumed that:

1. ISE Design workshops will not exceed 3 days
2. A single High Level Design document will be produced for the solution
3. A single Low Level Design document will be produced for the solution
4. Up to 7 wired 802.1x policy rules and up to 5 MAB policy rules

Version 0.01 March 06 2017

County of Monterey Enterprise Network Upgrade

5. Out-of-box Cisco ISE profiles will be used. No custom profiler profiles will be developed.
6. Testing and official test plan to be conducted within the LAB environment
7. Up to 12 use cases to be tested in the LAB
8. Development of up to 2x configuration / template types for up to 5 Cisco switch families that support the required 802.1x and RADIUS features
9. Development of up to 1x Anyconnect NAM suppliant templates
10. Consultation of up to 1x Windows native supplicant configuration modifications for Windows 7, 8, and 10.
11. All other supplicant types will be handled through consultation only based on the Windows or Anyconnect deployment
12. Appropriate resources, to be defined in ISE HLD, will be available to the ISE VMs per the required design specifications from Cisco for the correct endpoint count
13. Client will perform software upgrades, to be defined in ISE HLD, to all LAN switching devices as required.

2.12.4. Exclusions

1. Endpoint OS or application related troubleshooting where authentication issues are identified is not within scope for supplicants other than Cisco Anyconnect beyond identifying authentication issues within ISE.
2. Changes to Existing Network Topology or device configuration are outside of the project scope
3. Business processes and methodology changes. E.g. modifications to helpdesk operations, or end user communications are not within scope.
4. HTML customization of portals are not within scope
5. Active Directory database configuration and troubleshooting will be provided by the client
6. Client site LAN switch and other remote-site device configuration
7. This includes client supplicate configurations outside of the stated deliverables and any management center that may be required for Apple OSX.
8. Active Directory certificate configuration
9. Active Directory Group policy configuration
10. Active Directory logon scripting
11. Any modification or configuration of the PKI or CA server environment
12. End-user documentation
13. Software deployment that is required to meet the deliverables
14. Any Cisco ISE features outside of what is described in the deliverables

County of Monterey Enterprise Network Upgrade

Statement of Work

2.13. Remote Site Backup Path via Internet Transport Services

Our proposed solution to the 'Desired Backup' connectivity as noted in the RFQ is to propose an internet-connected MPLS over DMVPN solution for micro, small, and medium category sites. . Using internet for transport service will require the deployment of an additional DMVPN hub device at the ITD facility as well as evaluation and likely changes to existing firewall (and potentially other security devices) rules. In this project phase, we will prepare the additional DMVPN hub and provide configuration templates for remote sites needing to leverage the internet backup path. We will work in collaboration with the County to migrate a total of six remote sites (2 from each size category) to use this backup solution.

#	Task	Lead Task Owner	Description
1	WAN Edge PE Configuration Development – INTERNET TRANSPORT	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Using PDW (Design Documents) craft PE configuration for WAN Edge device(s) using the internet to provide transport services. WAN edge PE devices will be providing MPLS over DMVPN services. All traffic will be encrypted.
2	Connectivity Planning	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Facilitate planning workshop to identify changes needed to supporting infrastructure to support internet attached MPLS over DMVPN PE.
3	Hardware Setup	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Unbox, Setup and test new hardware
4	Security Device(s) Preparation	<input checked="" type="checkbox"/> Monterey County <input type="checkbox"/> Dimension Data	Update existing firewalls and other security appliances to support required connectivity to/from the new MPLS over DMVPN PE router.
5	Testing of WAN Edge Devices	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Test end-to-end reachability for simulated remote sites via new WAN Edge device configuration(s) in a lab environment.
4	MOP Development	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Develop Method of Procedure (MOP) detailing the change process for remote site devices to connect to the internet based MPLS over DMVPN head-end. Document includes pre-work data captures, detailed change steps, testing/verification procedures, rollback procedures (including rollback triggers).
5	Migration Event	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Perform migration as per MOP for up to 6 total sites (2 small, 2 medium, 2 large, as per RFQ site description).
6	Post Cutover Support	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	Provide support post-change to address any issues which may arise.
7	Knowledge Transfer	<input type="checkbox"/> Monterey County <input checked="" type="checkbox"/> Dimension Data	

Table 29 – Remote Site Internet Backup via Internet Transport Tasks

Version 0.01 March 06, 2017

County of Monterey Enterprise Network Upgrade

2.13.1. Deliverables

To meet the project phase completion schedule as per Monterey County, Dimension Data will require that prior to commencing work on subsequent project phases, Monterey County acknowledges that this phase/sub-phase of the project is completed. By mutual agreement of both Dimension Data and the County, work on subsequent project phases may commence prior the completion of this project phase.

#	Deliverable	Description
1	Update PDW	Update PDW with elements pertaining to this project phase including: <ol style="list-style-type: none"> 1. Device Configurations 2. Cable Mapping 3. As built-diagrams

Table 30 Remote Site Internet Backup via Internet Transport Deliverables

2.13.2. Assumptions

Dimension Data has assumed that:

1. Monterey County has sufficient internet bandwidth to support providing backup services for the identified number of sites.
2. Based upon data in the RFQ, a worst-base bandwidth requirement would be approximately 10GB to provide connectivity for all small, medium, and large sites.
3. Based upon requirements from Monterey County, the initial deployment using two sites from each site category would have a worst-case bandwidth requirement of less than 5GB.
4. The new MPLS over DMVPN PE will utilize existing inbound/outbound internet traffic engineering policies.
5. Monterey County has sufficient public IPv4 address space for the proposed solution.
6. Monterey County will coordinate with ISP(s) to advertise addressing for the new host/service.
7. Monterey County will be responsible for any and all DNS changes.

County of Monterey Enterprise Network Upgrade

2.13.3. Exclusions

1. All firewall and other security appliance changes needed to support this portion of this engagement are to be performed by Monterey County.

2.14. Common Solution Tasks and Deliverables

2.14.1. Lab Testing Overview

Inherent in a complex and lengthy project of this nature is a substantial effort of lab testing. Broadly speaking, the purpose of the lab testing is to identify and mitigate obstacles between design concepts, hardware/software features/functions and the transformation of the current state/configuration of the network and the desired end-state configuration. Within each of the phases of this project, Dimension Data will use a lab environment to transform design requirements as captured during planning sessions/workshops into both high-level and low-level design elements. It is not possible to clearly and accurately define the specific tasks that will be performed during lab testing until the design requirements have been documented and approved. However, there are some high-level tasks which we do know will be tested in a lab environment. The primary purpose of the Lab is to test the configuration of required features to implement path isolation services, and validation that the required design features can be implemented/configured on respective devices. As the project timelines allow, the Lab environment can also be used in testing 'fancy integration' between technologies such as MPLS over DMVPN as well as the connectivity between different network blocks (such as WAN, LAN, Data Center, etc.)

Although the Lab environment may not be identical to the production environment, Dimension Data firmly believes that having a lab and using the lab to test, validate and plan for system changes and maintenance is a significant factor in producing the desired outcome and minimizing unplanned outages.

Monterey County has an existing lab environment for both the WAN and Data Center devices (ACI Lab starter kit). Monterey County has asked Dimension Data to partner with the County to install and configure the Data Center lab devices to connect to the WAN lab devices mirroring the planned configuration. This will provide the ability for Monterey County to perform end-to-end testing of the path isolation environment.

County of Monterey Enterprise Network Upgrade

2.14.2. Deliverables

#	Deliverable	Description
		There are no common solution deliverables.

Table 31 - Common Solution Deliverables

2.14.3. Assumptions

For the purposes of this Statement of Work related to common solution deliverables, Dimension Data has assumed that:

1. Where applicable, installation and/or configuration of County owned application software will be the responsibility of County.
2. All client responsibilities will be delivered as agreed in the project schedule.
3. All required cabling is completed to specification and in accordance with milestones as agreed in project schedule.

2.14.4. County Responsibilities

As Documented in section 3.5.2 of the RFQ, it is Dimension Data's understanding that the County will provide/perform/grant access to the following:

1. Project Manager to work closely with the Vendor's project team
2. A County Network project team
3. Escort vendor personnel, if required, to County facilities
4. Direct vendor personnel to the location of equipment installations
5. Provide network management access, network diagrams and documentation of the County's existing network
6. Answer vendor questions regarding the existing data and telephony networks
7. Configuration, if required, of out-of-scope work required by vendor to complete the tasks of its SOW
8. Validate and approve vendor's designs
9. Work with vendor, develop Pilot test criteria and participate in the Pilot
10. Determine if vendor passes/fails Pilot
11. Deploy configuration templates provided by the vendor to County WAN sites (refer to RFQ sections 3.5.5.2.3 and 3.5.5.2.4 herein)

County of Monterey Enterprise Network Upgrade

Statement of Work

- 12. Gather user feedback after the site cutovers to find opportunities for improvement
- 13. Coordinate with the County's carriers
- 14. Conduct Quality Assurance and validation of all Vendor installation and implementation work prior to County Acceptance
- 15. Accept decommissioned equipment from Vendor
- 16. Participate in the transition of site cutovers to production support after the County's formal acceptance
- 17. Participate in knowledge transfer and Vendor-provided training

2.15. Project Management

2.15.1. Deliverables & Tasks

#	Deliverable	Description
1	Project Kickoff	Facilitate project kickoff meeting with County and Dimension Data team members
2	Project Plan and Schedule	Create and Update Project Plan and Project Schedule
3	Project Team Roles/Responsibilities Document	Document listing all project team members, role in the project, contact information, and areas of responsibility
4	Risk Register	Documentation and management to resolution of potential, open, and resolved issues which may impact project schedule
5	Communications Plan	Documentation of communication between Dimension Data and Monterey County including method, media, and frequency
6	Change Control Management	Documentation and management to resolution of proposed, accepted, and rejected change requests.
7	Project Team Resource Management	Management of Dimension Data resources

Version 0.01 March 06, 2017

County of Monterey Enterprise Network Upgrade

#	Deliverable	Description
8	Project Closeout	Facilitate a formal project close meeting and ensure that all project deliverables are completed.

Table 32 - Project Management Deliverables & Tasks

2.15.2. Assumptions

For the purpose of this Statement of Work as related to project management, Dimension Data has assumed that:

The project will be delivered without interruption or suspension by County.

1. Information provided to Dimension Data for this project will be accurate and complete.
2. All requested documentation will be provided to Dimension Data within two days of being requested, preferably in softcopy.
3. County accepts that Dimension Data's project team members will perform their duties through a combination of on-site and off-site activity.
4. Individuals that will be assigned as key vendor resources will be identified at the beginning of the project. These resources will remain on the project until the project completion. Any resource re-assignment will require written authorization from the County. However, the County understands and accepts that resources are not exclusive to the County project. Dimension Data documentation deliverables will be provided in read only electronic form (PDF) only, unless County also requests printed copies. In this case, a maximum of two printed copies will be provided.
5. Where applicable, installation and/or configuration of County owned application software will be the responsibility of County.
6. Any representatives of County that are involved at the various steps in the project are available as planned, adequately skilled and competent to execute the tasks required of them.
7. Any decision making representative nominated by County is duly empowered to do so.
8. Dimension Data will not be delayed due to the procurement and installation of any required infrastructure (hardware and software).
9. Where required, County will deploy the necessary hardware and software to the user's desktops.

County of Monterey Enterprise Network Upgrade

10. Any request from Dimension Data to County for functional or technical clarification will be responded to within 24 hours. Failure to respond during the allocated timeframe could have an impact on timelines and associated cost.
11. Dimension Data will receive a minimum of five (5) working days' notice of any rescheduling of work resulting from delays caused by County or their contractors.
12. There are no other projects in progress that can hinder the implementation of this project.

2.15.3. Exclusions

2.15.4. Information Governance

Governance of the people, processes and technology used to deliver the Solution is a control that directly impacts quality and benefit of the Solution.

For the purpose of pricing this Statement of Work, the following client requirements apply:

2.15.4.1. People

1. All Dimension Data staff engaged on the project will be cleared to a security level, as defined by County. Any such clearance is subject to the Process section below.
2. Where it is determined and mutually agreed that specific County project staff require a Dimension Data account to access the Dimension Data network, Dimension Data will provide the required level of access. County will comply with Dimension Data usage requirements and restrictions.

2.15.4.2. Technology

1. County is required to identify which electronic information transmitted to / from County is to be encrypted as well as the level of encryption required. It is assumed that all requests that can be fulfilled using Microsoft Office's 2007 security and encryption standards are within scope. Dimension Data will consider all other requests pertaining to this requirement and advise County of any cost implications that may be related to fulfilling this requirement.
2. County is responsible for providing Dimension Data with their specific IT security procedures. Dimension Data will review County's specific IT security procedures and reserves the right to adjust the proposed pricing in order to be fully compliant with County's identified information security and governance policies.
3. Should mutual agreement be reached that any specific Dimension Data IT security procedure is not sufficient for the project, Dimension Data will within reason comply with County's specific IT security procedure. Dimension Data reserves the

County of Monterey Enterprise Network Upgrade

right to adjust the proposed pricing in order to be fully compliant with those specific IT security procedures.

Statement of Work

County of Monterey Enterprise Network Upgrade

3. Implementation Approach

Dimension Data's Primer™ solution delivery framework, embraces a suite of world-class delivery services and project management capabilities. Primer™ is structured to provide the most relevant and scalable solution and to deliver it on time, accurately and cost effectively by ensuring risk, time and resources are managed throughout the project lifecycle.

Primer™ is aligned with the key principles of PRINCE2 and the fundamentals embedded in the Project Management Body of Knowledge (PMBOK) provided by the Project Management Institute (PMI). For further details please refer to the Appendix B.

3.1. Timelines

The engagement will commence on a mutually agreed date, after allowing time to assemble project resources. Dimension Data anticipates this will be within four (4) weeks of receiving a signed copy of this Statement of Work and County's purchase order.

Paragraph 15.10 of the County of Monterey Standard Agreement, "Time is of the Essence," is deleted and is of no effect. The provisions of Exhibit B, referenced in Paragraph 4.0 of the County of Monterey Standard Agreement, are substituted instead.

This Statement of Work has been quoted with the following timeframes to accomplish the tasks in each of the stages. The duration of the project will be validated during the Definition stage. Any changes to the duration will be handled via the Change Management process.

The project is scheduled to be completed prior to June 30, 2018 as per RFQ requirements.

The project schedule is subject to the following lead times:

1. Equipment lead time can be up to ten (10) weeks from date of receipt of official order.
2. A lead time of four (4) weeks may be required for any project resources.
3. Weekend work, if applicable, may require a lead time of six (6) weeks.

Actual lead times will be confirmed on receipt of a County purchase order and the schedule will be adjusted accordingly.

If County cancels scheduled work less than five (5) business days prior to the scheduled work commencement, Dimension Data may invoice County for the scheduled time at Dimension Data's normal hourly rate (\$210 per hour) for each resource that become idle plus any travel costs incurred as a result of the cancellation. If Dimension Data is unable

County of Monterey Enterprise Network Upgrade

to perform part of the services as scheduled due to a failure by County to perform its obligations, for such period that Dimension Data is prevented from such performance, Dimension Data may invoice County at Dimension Data's normal hourly rate (\$210 per hour) for resources that become idle.

Statement of Work

County of Monterey Enterprise Network Upgrade

3.2. Communication Management

The following table details the recommended communication plan:

Meeting	Frequency	Chairperson	Attendees	Format	Venue
Project kick-off meeting	At project initiation 1 to 2 hours	Dimension Data Project Manager	County and Dimension Data project managers and project team leads	Face-to-face	County of Monterey ITD Facility
Definition workshops	As per project schedule	Dimension Data Project Manager	County and Dimension Data project managers and project team leads	Face-to-face	
Weekly progress meeting	Weekly 1 Hour	Dimension Data Project Manager	County and Dimension Data project managers and project team leads	Face-to-face Or Telephonic	
Weekly progress reporting	Weekly	Dimension Data project manager	N/A	Written report	NA

Table 33 - Communication Plan

The frequency, format, and timeframe specified in the table above forms the basis on which the price has been developed. Changes to this plan can be made by mutual agreement of Dimension Data and Monterey County.

County of Monterey Enterprise Network Upgrade

3.3. Risk Management

Dimension Data will identify and assess project risks using a workshop in the initial phase of the project. The participants will be the Dimension Data project team, County's project team and other relevant County personnel.

At the completion of the risk assessment process, Dimension Data will confirm that all identified risks are recorded in a risk register. The risk register will be kept up to date by all parties and will be presented and discussed at each project status meeting. It is expected that new risks will arise or be identified during the project. All new risks shall be captured in the risk register as they arise and all parties will track, monitor and actively mitigate them according to the Primer™ risk management standards.

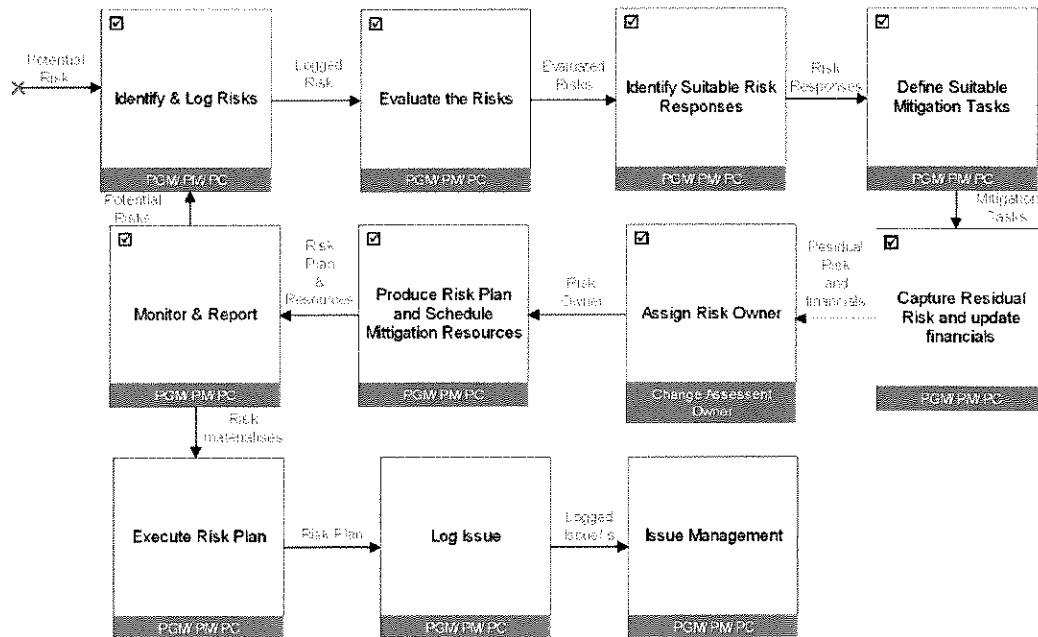


Figure 6 - Risk Management Process

3.4. Change Management

The management of change during the project lifecycle is critical to successful delivery. Change management will effectively control change and variations to scope, cost and time. The Statement of Work Version 0.01 will form the baseline for this process.

The change management process is as follows:

1. **Initiation:** Identify and document the requested change (Change Request). Please refer to Appendix C for a sample Change Order Form.
2. **Evaluation:** Determine:

County of Monterey Enterprise Network Upgrade

Statement of Work

- a. **Effort to analyze the impact:** Determine the estimated effort and cost to perform the **change impact analysis**. Depending on this assessment and the project tolerances the change could be rejected unless County has agreed to fund the change impact analysis.
- b. **Change Impact Analysis:** Should the analysis from 'a.' above either be within the projects set tolerances or County has agreed to fund the change impact analysis then assign an impact analysis owner and perform the impact analysis (i.e. determine the effort, impact and cost of the change).
3. **Approval:** County is required to agree to and sign off on the change request form. This may require an additional purchase order to be provided by County. An approved Change Request is also known as a Contract Variation Order (CVO) even if it does not include any additional charges as it represents a formal change to the project scope.
4. **Implementation:** Dimension Data implements the change.
5. **Close Out:** County is required to verify and sign off that the change has been implemented correctly within five (5) days of change implementation and completion.

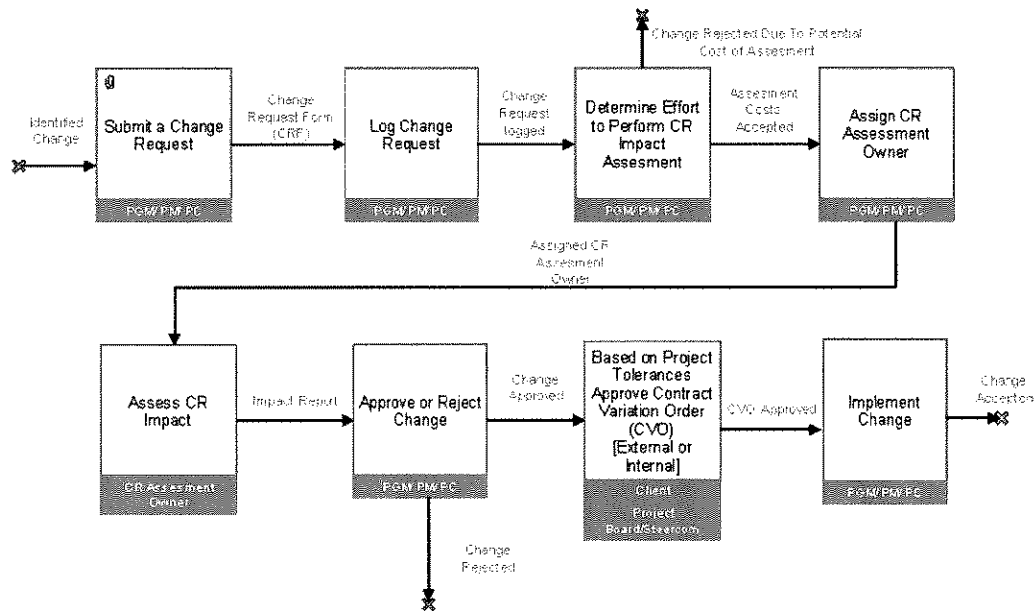


Figure 7 - Change Management Process

Changes may be initiated by County as a result of functional or feature requirement changes, market or regulatory requirements. Situations may occasionally arise where Dimension Data initiates a change request, providing County with more flexible options.

Version 0.0.1 March 06, 2017

County of Monterey Enterprise Network Upgrade

In such situations attention is directed to the impact and risks of such a change on existing project objectives.

Requested changes to the agreed upon project baseline will be identified, documented, and the impact will be assessed. This assessment may be billable. At completion of the assessment, change activity will be carried out upon agreement by County and subject to any additional charges agreed to by Dimension Data and County.

3.5. Client Responsibilities

The following items are responsibilities that County must fulfill as part of the project.

1. In order to avoid delays to the project:
 - a. County must review the documentation/deliverables within two (2) business days of receipt of the document, except where mutually agreed and stated in the schedule.
 - b. If due to County requirements, any documentation/deliverables require more than two (2) reviews, then client acknowledges that project delays and additional costs may be incurred.
2. County is responsible for supplying all infrastructure components to successfully deliver the project. Hardware, software licenses, network, and environments supplied by Dimension Data are excluded from this requirement.
3. County will be responsible for all aspects of data quality, availability, backups and restores required to successfully deliver the project.
4. County will provide site access, security escorts (if required), parking and a suitable work area to the project team.
5. County will provide internal staff as per the schedule or as reasonably required including, but not limited to:
 - a. Project manager to manage County deliverables, resources and activity as per the agreed schedule.
 - b. Availability of appropriate County representatives at necessary requirements, design and planning workshops, testing and validation activities.
 - c. Points of contact (as appropriate) for user groups and network systems administrators.
 - d. Provide access to network information, diagrams, site floor plans or site assistance, indicating outlet location, station number, user name, and station type for each site.
 - e. Third-party vendor coordination not specifically included in the scope of this Statement of Work.
 - f. Supplying third-party resources to assist in interfacing with third-party equipment.

County of Monterey Enterprise Network Upgrade

Statement of Work

6. The successful execution and completion of user acceptance testing.
7. Ensure that Dimension Data personnel who attend County site are instructed on all relevant health and safety regulations and criteria.
8. Ensuring all dependencies (resources, input data, etc.) that this engagement may have on other County projects is met.
9. Ensuring all dependencies required for the implementation of this project are provided to Dimension Data in line with the Dependency Matrix that will be maintained during the course of the project.

County of Monterey Enterprise Network Upgrade

Statement of Work

4. Commercials

4.1. Pricing Summary

This Statement of Work is based on a fixed price, fixed outcome basis. The pricing provided in this document is valid until April 28, 2017 and is subject to change if not accepted by that date.

	Item	Currency	Amount
1	Services Pricing**	US \$	\$779,030.57
2	ACI Lab Set-Up	US \$	\$31,705.34
3	Contingency	US \$	\$120,000.00
Total*		US \$	\$930,735.91

Table 34 - Pricing Summary

* All prices exclude VAT / GST / Local Sales or other Taxes and Duties

** This price is based upon Dimension Data's current understanding of County requirements and service assumptions and is subject to change if such requirement or assumptions change.

4.2. Pricing Assumptions

- Invoices shall be generated by Dimension Data on completion of a payment-related milestone or as otherwise specified in the payment milestones section. Completion of these milestones shall be confirmed by written client approval; which will be obtained from County by the Dimension Data Program/ Project Manager or as otherwise specified in governing terms.
- In the event that undisputed payments are not received in accordance with agreed upon payment terms, all project work may be halted until such time as payments are received by Dimension Data.
- The pricing assumes work will be undertaken during normal working hours (Monday through Friday 8:30AM to 5:30PM local time, excluding Dimension Data observed holidays) except planned cutovers that are part of the scope of this proposal. Should overtime work be undertaken, either at the request of, or through default on the part of County, Dimension Data reserves the right to invoice County for the difference between cost of effort at normal hourly rates and the cost of Dimension Data's standard overtime rates.

County of Monterey Enterprise Network Upgrade

- Any item not identified and defined within Section 3 (Scope Definition) of this Statement of Work is out of scope. The Dimension Data Project Manager will evaluate all out of scope request and activity. Out of scope and after hours services will be charged in accordance with the Change Control Process outlined in Appendix section of this Statement of Work.

4.3. Payment Milestones

This section details the payment milestones by which the fixed price amount for services will be invoiced.

Component	Amount due as a %	Due
Enterprise Design Phase	10%	On completion of Phase
Network Core Replacement Phase	5%	On completion of Phase
Data Center ACI Phase	10%	On completion of Phase
WAN Edge Migration Phase	5%	On completion of Phase
I-Net Backbone Upgrade Phase	5%	On completion of Phase
Pilot Migration: Library & Health Sites	10%	On completion of Phase
Remaining Site Migration	15%	On completion of Phase
InterVRF Routing & Firewall	5%	On completion of Phase
ISE Deployment	10%	On completion of Phase
Pilot Migration: ISE for Library & Health Sites	5%	On completion of Phase
Remaining Site Migrations with ISE	10%	On completion of Phase
Internet Transport for MPLS over DMVPN	5%	On completion of Phase
Project Close	5%	On completion of Project
Services Change Request	100%	On acceptance of the Change Request
Accommodation, subsistence and travel	100%	On order

Table 35 - Milestone Payments Table

4.3.1. Cancellations

County of Monterey Enterprise Network Upgrade

5. Statement of Work Acceptance Sheet

5.1. Governing Terms

This Statement of Work is subject to the PSA in effect between County and Dimension Data – PSA Date: March 29, 2017 through June 30, 2019

County of Monterey Enterprise Network Upgrade

Appendix A Contact Information

Statement of Work

Address	Web Site
County of Monterey Information Technology Department 1590 Moffett Drive Salinas, CA 93905	https://www.co.monterey.ca.us
Client Contacts	Contact Information
Alex Zheng Division Manager - Infrastructure	Email: ZhengA @co.monterey.ca.us Phone: 831/759-6991
Mike Perez Project Manager	Email: PerezM4@co.monterey.ca.us Phone: 831/759-6908
Dimension Data Contacts	Contact Information
Amber Beatty Client Manager	Phone: Enter here Email: amber.beatty@dimensiondata.com
Todd Allen Osterberg Systems Engineer	Phone: 916/504-2211 Email: todd.osterberg@dimensiondata.com
Nawar Nawar Sr. Systems Engineer	Phone: 949/374-1061 Email: nawar.nawar@dimensiondata.com
Murthy Karra Systems Engineer	Phone: 650/741-1789 Email: murthy.karra@dimensiondata.com
Jeff Groesbeck Solution Architect, Security	Phone: 801/243-2206 Email: Jeffrey.Groesbeck@dimensiondata.com

Table 36 - Contact Information

Version 0.0 - March 06, 2017

County of Monterey Enterprise Network Upgrade

Appendix B Primer Methodology

The phases below form Dimension Data's Primer™ solution delivery framework, which embraces a suite of delivery services and project management capabilities. Primer™ is structured to provide the most relevant and scalable solution and to deliver it on time, accurately and cost effectively by ensuring risk, time and resources are managed throughout the project lifecycle. Primer™ is aligned with the key principles of PRINCE2 and the fundamentals embedded in the Project Management Body of Knowledge (PMBOK) provided by the Project Management Institute (PMI).

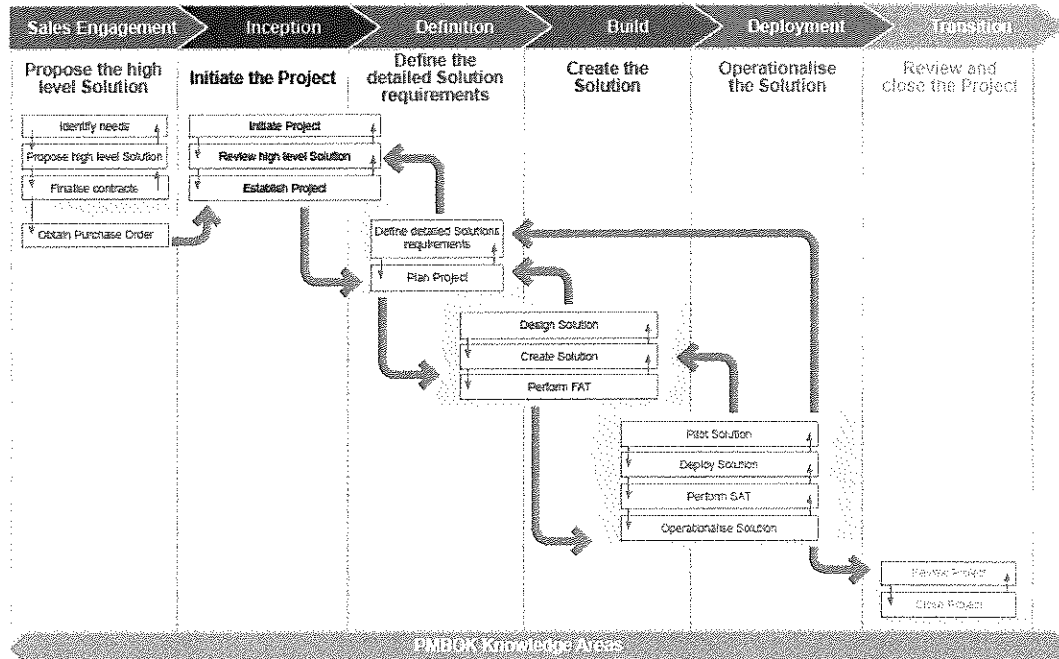


Figure 8 - Project Delivery Process

Note that although the stages are sequential typically there is some overlap between the stages and on occasions, a subsequent stage may influence the deliverables of a preceding stage. These changes are managed via the project change management process.

County of Monterey Enterprise Network Upgrade

Appendix C Change Order Form

Statement of Work

Part 1: Change Identification

Project Name: Enterprise Network Upgrade	Project Manager: Amber Beatty	Date: February 27, 2017
---	----------------------------------	----------------------------

Level of Change Authority:
ORB/SteerCo/Programme Board/Prog Manager/Project Board/Project Manager
(Delete as applicable)

Change Originator:	CRF No:
--------------------	---------

Reason for Change:

<input type="checkbox"/> County of Monterey Requested Change	<input type="checkbox"/> Dimension Data Requested Change
--	--

Change Description (include reason for change and reference documents):

Estimated duration/cost to assess the impact of the change

Name of person responsible for carrying out the change or impact analysis

County of Monterey acceptance to perform impact assessment
Eric Chatham, Interim Director of Information Technology

Dimension Data acceptance to perform impact assessment
Insert Name

Part 2: Change Impact Assessment

Conduct an impact assessment to the scope, schedule, cost, and affected parties	Date Required:
---	----------------

Impact Summary

Additional Information:	Insert hyperlink
-------------------------	------------------

Place an X in the components that will be impacted i.e. cost, scope, quality

Scope	Schedule	Cost	Quality	Affected Parties

Version 0.01 - March 06, 2017

County of Monterey Enterprise Network Upgrade

Statement of Work

Description Detail:

Review of impact and change approval

Role	Name	Approval Format	Signature	Date
County of Monterey role		Verbal/Email/Signature		
Dimension Data role		Verbal/Email/Signature		

Expenditure Approval

Total Charge:

Role	Name	Approval Format	Signature	Date
County of Monterey role		Email/Signature		

Part 3: Change Closure

Date Change was Completed: _____

Follow up comments:

Role	Name	Approval Format	Signature	Date
County of Monterey role		Verbal/Email/Signature		
Dimension Data role		Verbal/Email/Signature		

PO Number (Where Applicable) _____

County of Monterey Enterprise Network Upgrade

Appendix D Risk Register

Risk	Impact	Impact rating (H, M, L)

Table 37 - Risk Register

Statement of Work

County of Monterey Enterprise Network Upgrade

Appendix E Document Precedence

A professional service engagement progresses as more detail relating to the specific requirements is clarified and hence needs to be included in an updated requirements document. These baselines relate to greater detail of existing requirements and are not new requirements. Any new requirements are managed through the projects change management process. Each document created as part of a Dimension Data professional service engagement forms part of a hierarchical precedence structure when mutually agreed to by the parties. This enables County as well as Dimension Data to maintain a definitive record of the scope of work that has been contracted to be delivered. The most current baseline document with the greatest level of detail supersedes all previous baseline documents.

Below is the precedence structure for the anticipated baselined deliverables, starting with the lowest level of precedence.

1. Proposal (Statement of Work) [Sales Engagement Stage]
 - a. Scope Definition (SD)
2. Project Management Plan (PMP) [Inception Stage]
3. Project Statement of Requirements (SoR) [Definition Stage]**
 - a. Functional Requirements Specification (FRS)
 - b. Validation Requirements Specification (VRS)
 - c. Product Requirements Specification (PRS)*
 - d. Ongoing Operations and Support Requirements Specification (SRS)*
 - e. Change Management and Training Requirements Specification (TRS)*

** This can be included as part of the PMP

* These artifacts are optional.

County of Monterey Enterprise Network Upgrade

Terms and Conditions

LIMITATION OF LIABILITY: (From NASPO)

a) Except as may be otherwise approved by the Department of General Services Deputy Director, Procurement Division or their designee, Contractor's liability for damages to the County for any cause whatsoever, and regardless of the form of action, whether in Contract or in tort, shall be limited to the Purchase Price. For purposes of this sub-section a), "Purchase Price" will mean the aggregate Contract price; except that, with respect to a Contract under which multiple purchase orders will be issued (e.g., a Master Agreement or Multiple Award Schedule contract), "Purchase Price" will mean the total price of the purchase order for the Deliverable(s) or service(s) that gave rise to the loss, such that the Contractor will have a separate limitation of liability for each purchase order.

b) The foregoing limitation of liability shall not apply (i) to any liability under the General Provisions entitled "Compliance with Statutes and Regulations" (ii) to liability under the General Provisions, entitled "Patent, Copyright, and Trade Secret Indemnity" or to any other liability (including without limitation Indemnification obligations) for infringement of third party intellectual property rights; (iii) to claims arising under provisions herein calling for indemnification for third party claims against the County for death, bodily injury to persons or damage to real or tangible personal property caused by the Contractor's negligence or willful misconduct; or (iv) to -costs or attorney's fees that the County becomes entitled to recover as a prevailing party in any action.

c) The County's liability for damages for any cause whatsoever, and regardless of the form of action, whether in Contract or in tort, shall be limited to the Purchase Price, as that term is defined in subsection a) above. Nothing herein shall be construed to waive or limit the County's sovereign immunity or any other immunity from suit provided by law.

d) In no event will either the Contractor or the County be liable for consequential, incidental, indirect, special, or punitive damages, even if notification has been given as to the possibility of such damages, except (i) to the extent that the Contractor's liability for such damages is specifically set forth in the Statement of Work or Oi) to the extent that the Contractor's liability for such damages arises out of sub- section b)(i), b)(ii), or b)(iv) above.

WARRANTY: (From NASPO)

a) Unless otherwise specified in the Statement of Work, the warranties in this subsection a) begin upon delivery of the goods or services in question and end one (1) year thereafter. The Contractor warrants that (i) Deliverables and services furnished hereunder will substantially

Statement of Work

Version 0.01 March 06, 2017

County of Monterey Enterprise Network Upgrade

Statement of Work

conform to the requirements of this Contract (including without limitation all descriptions, specifications, and drawings Identified in the Statement of Work), and (ii) the Deliverables will be free from material defects in materials and workmanship. Where the parties have agreed to design specifications (such as a Detailed Design Document) and incorporated the same or equivalent in the Statement of Work directly or by reference, the Contractor will warrant that it's Deliverables provide all material functionality required thereby. In addition to the other warranties set forth herein, where the Contract calls for delivery of Commercial Software, the Contractor warrants that such Software will perform in accordance with its license and accompanying Documentation. The County's approval of designs or specifications furnished by Contractor shall not relieve the Contractor of its obligations under this warranty.

b) The Contractor warrants that Deliverables furnished hereunder (i) will be free, at the time of delivery, of harmful code (i.e. computer viruses, worms, trap doors, time bombs, disabling code, or any similar malicious mechanism designed to interfere with the intended operation of, or cause damage to, computers, data, or Software); and (ii) Will not infringe or violate any U.S. Intellectual Property Right. Without limiting the generality of the foregoing, if the County believes that harmful code may be present in any Commercial Software delivered hereunder, the Contractor will, upon the County's request, provide a new or clean install of the Software.

c) Unless otherwise specified in the Statement of Work:

(i) The Contractor does not warrant that any Software provided hereunder is error-free or that it will run without immaterial interruption.

(ii) The Contractor does not warrant and will have no responsibility for a claim to the extent that it arises directly from (A) a modification made by the County, unless such modification is approved or directed by the Contractor, (B) use of Software in combination with or on products other than as specified by the Contractor, or (C) misuse by the County.

(iii) Where the Contractor resells Commercial Hardware or Commercial Software it purchased from a third party, Contractor, to the extent it is legally able to do so, will pass through any such third party warranties to the County and will reasonably cooperate in enforcing them. Such warranty pass-through will not relieve the Contractor from Contractor's warranty obligations set forth above.

d) All warranties, including special warranties specified elsewhere herein, shall inure to the County, its successors, assigns, customer agencies and governmental users of the Deliverables or services.

County of Monterey Enterprise Network Upgrade

Statement of Work

e) Except as may be specifically provided in the Statement of Work or elsewhere In this Contract, for any breach of the warranties provided in this Section, the County's exclusive remedy and the Contractor's sole obligation WU be limited to:

(I) re-performance, repair, or replacement of the nonconforming Deliverable (including without limitation an infringing Deliverable) or service: or

(ii) Should the County in its sole discretion consent, Contractor will refund all amounts paid by the County for the nonconforming Deliverable or service and Contractor will pay to the County any additional amounts necessary to equal the County's Cost to Cover. "Cost to Cover" means the cost, properly mitigated, of procuring Deliverables or services of equivalent capability, function, and performance. The payment obligation in in this subsection (e) (ii) will not exceed the limits on the Contractor's liability set forth in the Section entitled "Limitation of Liability."

f) EXCEPT FOR THE EXPRESS WARRANTIES SPECIFIED IN THIS SECTION, THE CONTRACTOR MAKES NO WARRANTIES EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

RIGHTS IN WORK PRODUCT: (From NASPO)

a) All inventions, discoveries, intellectual property, technical communications and records originated or prepared by the Contractor pursuant to this Contract including papers, reports, charts, computer programs, and other Documentation or improvements thereto, and including the Contractor's administrative communications and records relating to this Contract (collectively, the "Work Product"), shall be the Contractor's exclusive property. The provisions of this subsection a) may be revised in a Statement of Work.

b) Software and other materials developed or otherwise obtained by or for the Contractor or its affiliates independently of this Contract or applicable purchase order ("Pre-Existing Materials") do not constitute Work Product. If the Contractor creates derivative works of Pre-Existing Materials. The elements of such derivative works created pursuant to this Contract constitute Work Product, but other elements do not. Nothing in this section will be construed to interfere with the Contractor's or its affiliates' ownership of Pre-Existing Materials.

Version 0.01 March 06, 2017

County of Monterey Enterprise Network Upgrade

Statement of Work

c) The County will have Government Purpose Rights to the Work Product as Deliverable or delivered to the County hereunder. "Government Purpose Rights" are the unlimited, irrevocable, worldwide, perpetual, royalty-free, non-exclusive rights and licenses to use, modify, reproduce, and perform, release display, create derivative works from, and disclose the Work Product. "Government Purpose Rights" also include the right to release or disclose the Work Product outside the County for any County government purpose and to authorize recipients to use, modify, reproduce, perform, release, display, create derivative works from, and disclose the Work Product for any County government purpose. Such recipients of the Work Product may include, without limitation, State Contractors, California local governments, the U.S. federal government, and the State and local governments of other County. "Government Purpose Rights" do not include any rights to use, modify, reproduce, perform, release, display, create derivative works from, or disclose the Work Product for any commercial purpose.

d) The ideas, concepts, know-how, or techniques relating to data processing, developed during the course of this Contract by the Contractor or jointly by the Contractor and the County may be used by either party without obligation of notice or accounting.

e) This Contract shall not preclude the Contractor from developing materials outside this Contract that are competitive irrespective of their similarity to materials which might be delivered to the County pursuant to this Contract.

1) **ORDERS.** Dimension Data may offer to sell County third party manufactured hardware, software licenses or Third Party Maintenance (defined in Section 11) ("Products") and/or Services (defined in Section 12) as identified in a Dimension Data-issued Quote ("Quote") or Statement of Work ("SOW," as defined in Section 13).

2) **SOFTWARE LICENSING.** Any third party software is subject to the license terms provided with it, and all software license terms are established directly between County and the software licensor. Dimension Data is not a party to any such software license and makes no warranties or representations related to the software.

3) **SHIPPING; DELIVERY.** All shipments in the USA are F.O.B. Destination. Risk of loss to Products passes to County upon delivery to the agreed ship to location. Title to Products passes to County when Dimension Data receives payment in full of the Product purchase price. Dimension Data will not be liable for any delay in delivery or failure to give notice of such delay. Products delivered to Dimension Data's facility for staging Services will be shipped to County no later than 10 days after completion of such Service, and County agrees to accept delivery of all

County of Monterey Enterprise Network Upgrade

Statement of Work

such Products or reimburse Dimension Data's warehousing cost. County will accept and pay for partial shipments of Products.

4) RETURN POLICY. County will promptly notify Dimension Data of any discrepancy in shipment quantity or type or shipment damage and Dimension Data will remedy any such issues at its cost. Correctly delivered Products may not be returned unless Dimension Data approves it and any such returns (i) are subject to the manufacturer's restocking fees and related charges, (ii) must be in the original shipping cartons, undamaged, unused and unaltered, and (iii) specify a Return Material Authorization ("RMA") number. County will comply with manufacturer RMA requirements.

5) THIRD-PARTY MAINTENANCE. "Third-Party Maintenance" is product support service delivered by a third party that Dimension Data resells to County. Third Party Maintenance is subject to the service description(s), terms and conditions identified by the applicable third party provider. Dimension Data is not a party to any such third party terms and conditions and is not responsible for delivery of Third-Party Maintenance.

6) SERVICES DESCRIPTIONS. "Services" governed by this Agreement are those services Dimension Data performs other than cloud services which are offered subject to separate terms of service. Descriptions of Dimension Data Services are available upon request, online at <http://www.dimensiondata.com/rgn/na/legal/Pages/Home.aspx> or are as set forth in the applicable SOW. The terms of Dimension Data's service description(s) are incorporated by reference into this Agreement. Services provided and charged based on labor time and materials supplied a) carry a 4-hour minimum charge, (b) are estimated for budgeting purposes and not performed by a fixed deadline or for a set charge, and (c) are considered accepted as specified in the Scope of Work. DD will comply with County's published and reasonable standard safety and security policies when performing Services on County premises.

7) SOW DELIVERABLES. For any deliverables identified in a SOW and provided to County (or a corrected version of the same), County will have 10 business days from delivery to notify Dimension Data in writing if it fails to comply with the applicable acceptance criteria specified in the SOW ("Acceptance Criteria"). County's written notice shall itemize how the deliverable fails to meet the Acceptance Criteria ("Failure"). Dimension Data will use commercially reasonable efforts to promptly remedy all confirmed Failures and provide a corrected deliverable to County. If County or a third party authorized by County modifies a deliverable which causes a Failure, such deliverable shall be deemed automatically accepted and any Dimension Data efforts to correct the Failure will be on agreed terms. A SOW may specify alternate acceptance period(s) or terms. If no Acceptance Criteria are specified in a SOW then the corresponding deliverable is deemed accepted at time of delivery.

Version 0.01 March 08 2017

County of Monterey Enterprise Network Upgrade

8) **THIRD PARTY SOFTWARE.** If software licensed to County is used in the performance of Services, (i) County will ensure Dimension Data has the right to use it, (ii) Dimension Data will use it only in the performance of Services, and (iii) the rights in any derivative works, customizations and/or enhancements of it will be subject to the terms of the applicable third party software license.

9) **COUNTY OBLIGATIONS.** County's timely, complete and accurate provision of, and access to, County equipment, services, facilities, personnel, third party software and/or information may be necessary for Dimension Data to perform Services. Dimension Data will inform County of County's failure to provide such goods or assistance, and any resulting inability to perform Services will be excused until County cures the failure. Any such failure may also result in increased charges which Dimension Data will confirm with County. If Dimension Data equipment is installed at a County location for delivery of Services County agrees (i) County is responsible for any loss or damage to such equipment, (ii) Dimension Data retains ownership of such equipment.

10) **NO SOLICITATION.** During Dimension Data's performance of Services and for 6 months thereafter, neither of Dimension Data nor County shall solicit for employment or retention as an independent contractor any employee or former employee or Retained Personnel of the other who provided or received any Services. "Solicit" shall not be deemed to include advertising in newspapers, web sites or trade publications available to the public.

11) Compliance

Delays may arise from matters that are not controlled by Dimension Data. Failure to fully comply with all Client Responsibilities within the time frames specified in this Statement of Work may increase the cost of the Dimension Data's performance of its obligations under this Statement of Work. All costs and expenses incurred by Dimension Data and associated with such delays or failures will be in addition to the pricing specified in this Statement of Work and, shall be invoiced to County subject to the project change control process. These delays and failures can be common and may prevent or delay Dimension Data from supplying the Service as agreed to or they may prevent a Service from performing in accordance with the agreed to specification. Should a related incident occur Dimension Data will immediately notify County. Some such incidents may cause Dimension Data to suspend Service delivery until they are resolved. County must be aware of this fact and take reasonable actions to minimize this possibility. The following items summarize the major factors that are likely to delay the project and cause added fees.

County of Monterey Enterprise Network Upgrade

12) Research and Investigation

Should an issue that impacts the project be deemed to be related to County's responsibilities or a third parties' responsibilities which are outside the agreed responsibilities and / or control of Dimension Data, then County will be notified. Should County authorize Dimension Data to investigate the issue, such service will be provided subject to a Change Request agreed to by County and specifying the estimated labor and materials charges for such service. All such charges will be invoiced to County, however, in the event it is determined that the issue was caused by Dimension Data or was work specified by Dimension Data as included in this Statement of Work, then no additional charges to County will apply.

Dimension Data Proprietary and Confidential

DDNA03.24.2016

Statement of Work

Version 0.01 March 06, 2017

EXHIBIT B

Monterey County Network Infrastructure Upgrade

ID	% Complete	Task Mode	Task Name	Duration	Start	Finish
1	0%	Task	Monterey County Network Infrastructure Upgrade	72.63 days	Mon 4/10/17	Wed 7/19/17
2	0%	Task	Phase 0 (Design Phase) Network Upgrade Project Inception	28.5 days	Mon 4/10/17	Thu 5/18/17
3	0%	Task	Review Job Package	0.2 days	Mon 4/10/17	Mon 4/10/17
4	0%	Task	Customer kickoff Meeting	1 day	Mon 4/10/17	Mon 4/10/17
5	0%	Task	Project Discovery	5 days	Wed 4/12/17	Tue 4/18/17
6	0%	Task	Network Discovery	1.5 days	Wed 4/12/17	Thu 4/13/17
7	0%	Task	IGP Configuration Review	1 day	Thu 4/13/17	Fri 4/14/17
8	0%	Task	IP Addressing Review	1 day	Tue 4/18/17	Tue 4/18/17
9	0%	Task	Project Design	25 days	Thu 4/13/17	Thu 5/18/17
10	0%	Task	Workshops	2.5 days	Thu 4/13/17	Mon 4/17/17
11	0%	Task	MPLS Core Planning	10.5 days	Tue 4/18/17	Tue 5/2/17
12	0%	Task	L3 VPN Services	4 days	Tue 5/2/17	Mon 5/8/17
13	0%	Task	InterVRF Routing	2 days	Mon 5/8/17	Wed 5/10/17
14	0%	Task	Business Partner Connectivity	1 day	Wed 5/10/17	Thu 5/11/17
15	0%	Task	Enterprise VLAN Allocation Model	3 days	Tue 4/18/17	Thu 4/20/17
16	0%	Task	MDCS/Cradepoint	3 days	Fri 4/21/17	Tue 4/25/17
17	0%	Task	Final Documentation Compilation	5 days	Thu 5/11/17	Thu 5/18/17
18	0%	Task	Lab Setup	1 day	Tue 4/18/17	Tue 4/18/17
19	0%	Task	Phase 1 (Deployment) Network Upgrade Project Inception	10.5 days	Thu 5/18/17	Thu 6/1/17
20	0%	Task	Customer Kickoff Meeting	1 day	Thu 5/18/17	Fri 5/19/17
21	0%	Task	Equipment Staging	1 day	Thu 5/18/17	Fri 5/19/17
22	0%	Task	Project Build	3 days	Fri 5/19/17	Wed 5/24/17

Project: Monterey County Network
Date: Fri 3/24/17

Task: Inactive Summary

Split Milestone Summary Project Summary Inactive Task Inactive Milestone

Manual Task Manual Summary Rollup Manual Summary Start-only Finish-only

External Tasks External Milestone Progress Manual Progress

Monterey County Network Infrastructure Upgrade

ID	% Complete	Task Mode	Task Name	Duration	Start	Finish
23	0%		PE Configuration Development	1 day	Fri 5/19/17	Mon 5/22/17
24	0%		VPNv4 RR Configuration	1 day	Mon 5/22/17	Tue 5/23/17
25	0%		Testing of PE and VPNv4 Boxes	1 day	Tue 5/23/17	Wed 5/24/17
26	0%		Project Cutover	4 days	Wed 5/24/17	Tue 5/30/17
27	0%		MOP Development	1 day	Wed 5/24/17	Thu 5/25/17
28	0%		Deploy PE Configuration Development	1 day	Thu 5/25/17	Fri 5/26/17
29	0%		Deploy VPNv4 RR Configuration	1 day	Fri 5/26/17	Mon 5/29/17
30	0%		Support Change Window	1 day	Mon 5/29/17	Tue 5/30/17
31	0%		Project Close	3.5 days	Mon 5/29/17	Thu 6/1/17
32	0%		Create As-built Documentation	0.5 days	Mon 5/29/17	Mon 5/29/17
33	0%		Post Cutover support	1 day	Tue 5/30/17	Wed 5/31/17
34	0%		Technical Lessons Learned	0.5 days	Wed 5/31/17	Wed 5/31/17
35	0%		Training/Knowledge Transfer	1 day	Thu 6/1/17	Thu 6/1/17
36	0%		Phase 2 WAN Edge Upgrade Project Inception	7.5 days	Fri 6/2/17	Tue 6/13/17
37	0%		Customer Kickoff Meeting	1 day	Fri 6/2/17	Fri 6/2/17
38	0%		Equipment Staging	1 day	Mon 6/5/17	Mon 6/5/17
39	0%		Project Build	2 days	Mon 6/5/17	Tue 6/6/17
40	0%		WAN Edge PE Configuration	1 day	Mon 6/5/17	Mon 6/5/17
41	0%		Circuit Move Planning/Mapping	1 day	Tue 6/6/17	Tue 6/6/17
42	0%		Testing New WAN Edge	1 day	Tue 6/6/17	Tue 6/6/17
43	0%		Project Cutover	4 days	Wed 6/7/17	Mon 6/12/17
44	0%		MOP Development	1 day	Wed 6/7/17	Wed 6/7/17

Project: Monterey County Netw
Date: Fri 3/24/17

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			

Monterey County Network Infrastructure Upgrade

ID	% Complete	Task Mode	Task Name	Duration	Start	Finish
45	0%		Deploy ASR1002x	1 day	Thu 6/8/17	Thu 6/8/17
46	0%		Convert Existing ASR1002x to PE	1 day	Fri 6/9/17	Fri 6/9/17
47	0%		Support Change Window	1 day	Mon 6/12/17	Mon 6/12/17
48	0%		Project Closeout	1.5 days	Mon 6/12/17	Tue 6/13/17
49	0%		Create As Built Documentation	0.5 days	Mon 6/12/17	Mon 6/12/17
50	0%		Training/Knowledge Transfer	1 day	Mon 6/12/17	Tue 6/13/17
51	0%		<i>Lessons Learned</i>	1 day	Mon 6/12/17	Tue 6/13/17
52	0%		Phase 3 ACI Project Definition	43.13 days	Fri 5/19/17	Wed 7/19/17
53	0%		Customer Kickoff Meeting	1 day	Fri 5/19/17	Mon 5/22/17
54	0%		Workshop (Migration Strategy)	2 days	Mon 5/22/17	Wed 5/24/17
55	0%		Workshop (Testing Strategy)	2 days	Wed 5/24/17	Fri 5/26/17
56	0%		ACI Infrastructure Discovery	4 days	Fri 5/26/17	Thu 6/1/17
57	0%		Project Inception	5.38 days	Thu 6/1/17	Thu 6/8/17
58	0%		Overall Data Center Workshops	2 days	Thu 6/1/17	Mon 6/5/17
59	0%		Template Customization	1 day	Mon 6/5/17	Tue 6/6/17
60	0%		Application and Traffic Flow Analysis	1.5 days	Tue 6/6/17	Wed 6/7/17
61	0%		Design requirements and feature workshop	0.5 days	Thu 6/8/17	Thu 6/8/17
62	0%		Server Virtualization and Nexus 1000 Requirements gathering	0.5 days	Thu 6/8/17	Thu 6/8/17
63	0%		Equipment Staging (Unboxing)	3 hrs	Thu 6/8/17	Thu 6/8/17
64	0%		Load Configurations	3 hrs	Thu 6/8/17	Thu 6/8/17
65	0%		Project Build	9.5 days	Thu 6/8/17	Thu 6/22/17
66	0%		Management Network	2 days	Thu 6/8/17	Mon 6/12/17

Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Split		
Milestone		
Summary		
Project Summary		
Inactive Task		
Inactive Milestone		

Monterey County Network Infrastructure Upgrade

ID	% Complete	Task Mode	Task Name	Duration	Start	Finish
67	0%	Task	Computer and Storage	2 days	Mon 6/12/17	Wed 6/14/17
68	0%	Task	Fabric Build Out	1 day	Wed 6/14/17	Thu 6/15/17
69	0%	Task	Fabric Staging	2 days	Thu 6/15/17	Mon 6/19/17
70	0%	Task	Fabric cabling	1 day	Mon 6/19/17	Tue 6/20/17
71	0%	Task	Create acceptance Test Plan	0.5 days	Tue 6/20/17	Wed 6/21/17
72	0%	Task	Review and Approve staging Configurations	0.5 days	Tue 6/20/17	Wed 6/21/17
73	0%	Task	Test and Acceptance Validation (per closet)	1 day	Wed 6/21/17	Thu 6/22/17
74	0%	Task	Project Deployment	16.25 days	Thu 6/22/17	Fri 7/14/17
75	0%	Task	Progress Project Reporting	1 hr	Thu 6/22/17	Thu 6/22/17
76	0%	Task	Rack Mounting, Deploying, Closet uplinks (per closet)	0.5 days	Thu 6/22/17	Thu 6/22/17
77	0%	Task	In Band Management Configuration	8 hrs	Thu 6/22/17	Fri 6/23/17
78	0%	Task	L3 Interconnect (IGP)	1 day	Fri 6/23/17	Mon 6/26/17
79	0%	Task	L2 Interconnect-DCI	2 days	Mon 6/26/17	Wed 6/28/17
80	0%	Task	ACI constructs: Base Package	14 days	Mon 6/26/17	Fri 7/14/17
81	0%	Task	Test and Acceptance Validation (per closet)	1 hr	Fri 7/14/17	Fri 7/14/17
82	0%	Task	Project Closeout	3 days	Fri 7/14/17	Wed 7/19/17
83	0%	Task	As Built Documentation	1 day	Fri 7/14/17	Mon 7/17/17
84	0%	Task	Post Cutover support	2 days	Mon 7/17/17	Wed 7/19/17
85	0%	Task	Training/Knowledge Transfer	1 day	Mon 7/17/17	Tue 7/18/17
86	0%	Task	Internal Quality Assurance Check	0.5 days	Mon 7/17/17	Tue 7/18/17
87	0%	Task	Lessons Learned	1 day	Tue 7/18/17	Wed 7/19/17
88	0%	Task	Phase 4 "I-Net Ring Upgrade	7.25 days	Fri 6/23/17	Tue 7/4/17

Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Split	Manual Task	External Milestone
Milestone	Duration-only	Deadline
Summary	Manual Summary Rollup	Progress
Project Summary	Manual Summary	Manual Progress
Inactive Task	Start-only	
Inactive Milestone	Finish-only	

Monterey County Network Infrastructure Upgrade

ID	% Complete	Task Mode	Task Name	Duration	Start	Finish
89	0%	Task	Customer Kickoff Meeting	1 day	Fri 6/23/17	Mon 6/26/17
90	0%	Task	Move Equipment Rack	1 day	Fri 6/23/17	Mon 6/26/17
91	0%	Task	Project Build	2.75 days	Mon 6/26/17	Thu 6/29/17
92	0%	Task	Validation of Fiber Plant for 10 G function	16 hrs	Mon 6/26/17	Wed 6/28/17
93	0%	Task	I-Net PE Configuration Development	0.5 days	Wed 6/28/17	Wed 6/28/17
94	0%	Task	Apply I-Net PE Configuration to Devices	1 hr	Thu 6/29/17	Thu 6/29/17
95	0%	Task	Testing of PE and VPNv4 Boxes	2 hrs	Thu 6/29/17	Thu 6/29/17
96	0%	Task	Project Cutover-	1.5 days	Thu 6/29/17	Fri 6/30/17
97	0%	Task	MOP Development	0.5 days	Thu 6/29/17	Thu 6/29/17
98	0%	Task	Change Window L1-L3	1 day	Thu 6/29/17	Fri 6/30/17
99	0%	Task	Project Closeout	2 days	Fri 6/30/17	Tue 7/4/17
100	0%	Task	As Built Documentation	0.5 days	Fri 6/30/17	Mon 7/3/17
101	0%	Task	Post Cutover support	0.5 days	Mon 7/3/17	Mon 7/3/17
102	0%	Task	Training/Knowledge Transfer	1 day	Mon 7/3/17	Tue 7/4/17
103	0%	Task	Lessons Learned	1 hr	Mon 7/3/17	Mon 7/3/17
104	0%	Task	Phase 6a Library Migration	8.69 days	Mon 6/26/17	Fri 7/7/17
105	0%	Task	Data gathering and analysis	1 day	Mon 6/26/17	Tue 6/27/17
106	0%	Task	Project Inception	0.13 days	Mon 6/26/17	Mon 6/26/17
107	0%	Task	External Kickoff Meeting	1 hr	Mon 6/26/17	Mon 6/26/17
108	0%	Task	Project Staging	5.25 days	Mon 6/26/17	Mon 7/3/17
109	0%	Task	Develop Remote Site Per Device Template for MOP Document	2 days	Mon 6/26/17	Wed 6/28/17
110	0%	Task	Develop MOP for Remote sites	1 day	Wed 6/28/17	Thu 6/29/17

Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Split		
Milestone		
Summary		
Project Summary		
Inactive Task		
Inactive Milestone		

Monterey County Network Infrastructure Upgrade

ID	% Complete	Task Mode	Task Name	Duration	Start	Finish
111	0%	Task	Develop MOP for Library Head-End Router	8 hrs	Thu 6/29/17	Fri 6/30/17
112	0%	Task	Develop MOP for PE-CE Elements for Remote Site	1 day	Fri 6/30/17	Mon 7/3/17
113	0%	Task	Develop Test Plan	2 hrs	Mon 7/3/17	Mon 7/3/17
114	0%	Task	Develop Roll Back Plan	2 hrs	Mon 7/3/17	Mon 7/3/17
115	0%	Task	Project Deployment	3.19 days	Mon 7/3/17	Fri 7/7/17
116	0%	Task	Library Change Window: Single site	2 days	Mon 7/3/17	Wed 7/5/17
117	0%	Task	Library Change Window: Head-End Router	0.5 days	Wed 7/5/17	Thu 7/6/17
118	0%	Task	Library Change Window: Multiple Device Site	1.5 hrs	Wed 7/5/17	Thu 7/6/17
119	0%	Task	Project Cutover-	1 day	Thu 7/6/17	Fri 7/7/17
120	0%	Task	Project Closeout	0.13 days	Fri 7/7/17	Fri 7/7/17
121	0%	Task	Lessons Learned	1 hr	Fri 7/7/17	Fri 7/7/17
122	0%	Task	Phase 6b Health Migration	14.56 days	Tue 6/27/17	Tue 7/18/17
123	0%	Task	Review Job Package/Project Plan	0.5 days	Tue 6/27/17	Tue 6/27/17
124	0%	Task	Project Inception	0.13 days	Tue 6/27/17	Tue 6/27/17
125	0%	Task	External Kickoff Meeting	1 hr	Tue 6/27/17	Tue 6/27/17
126	0%	Task	Project Staging	5 days	Tue 6/27/17	Tue 7/4/17
127	0%	Task	Develop Remote Site Per Device Template for MOP Document	13 hrs	Tue 6/27/17	Thu 6/29/17
128	0%	Task	Update Head-End MOP for ASR1ks (2)	8 hrs	Thu 6/29/17	Fri 6/30/17
129	0%	Task	Update MOP for I-NET PES	19 hrs	Fri 6/30/17	Tue 7/4/17
130	0%	Task	Develop a MOP for PE-CE Elements of Remote Site	19 hrs	Thu 6/29/17	Mon 7/3/17
131	0%	Task	Develop Remote Site Per Device Template for MOP Document- Com 2 days	2 days	Thu 6/29/17	Mon 7/3/17
132	0%	Task	Augment Test Plan: Additional VRFs	4 hrs	Thu 6/29/17	Thu 6/29/17

Task Inactive Summary External Tasks

Split Manual Task External Milestone

Milestone Duration-only Deadline

Summary Manual Summary Rollup Progress

Project Summary Manual Summary Manual Progress

Inactive Task Start-only]

Inactive Milestone Finish-only]

Project: Monterey County Netw
Date: Fri 3/24/17

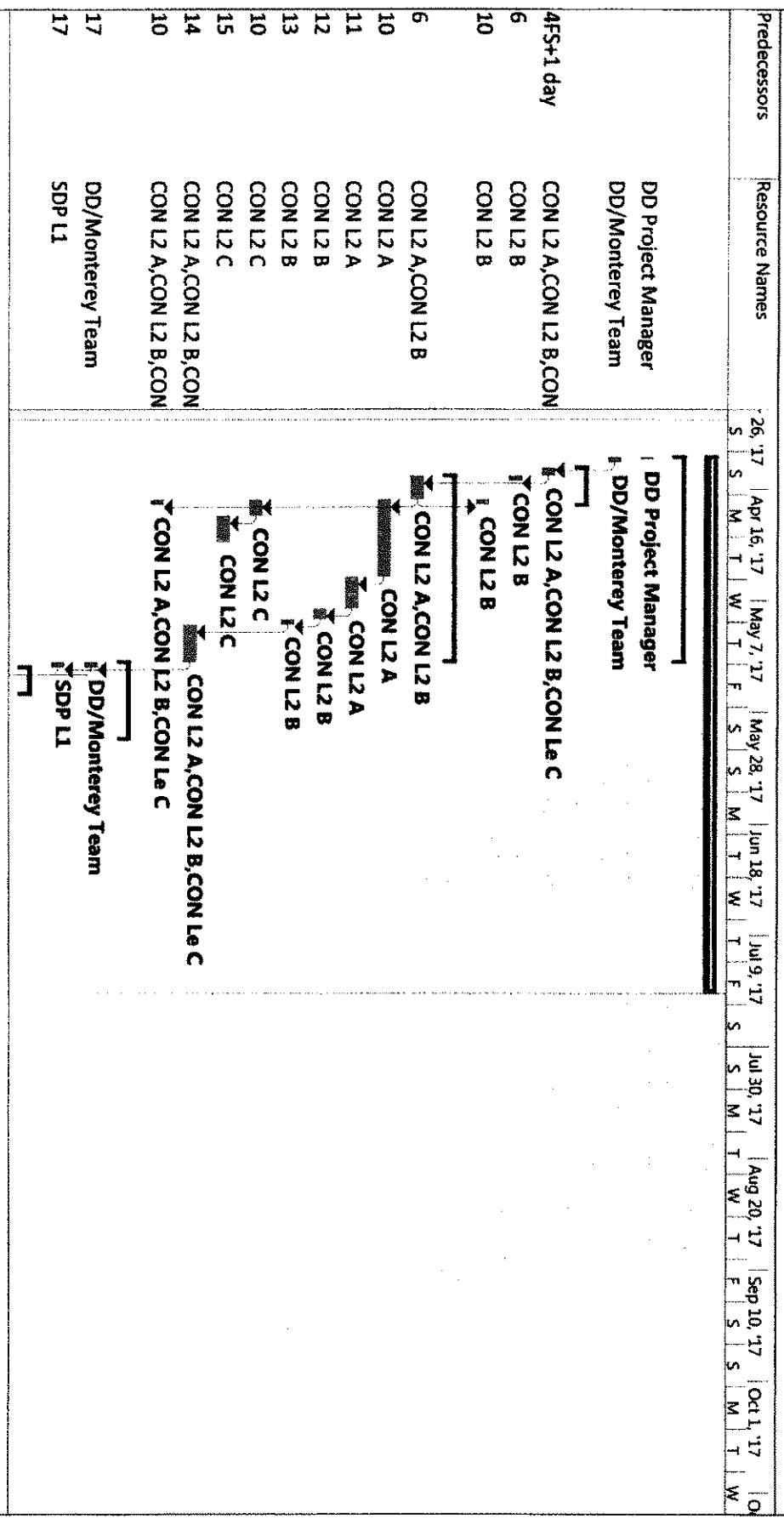
Monterey County Network Infrastructure Upgrade

ID	% Complete	Task Mode	Task Name	Duration	Start	Finish
133	0%	Task	Develop Test Plan for 2547ODMVPN sites & Head-End	2 hrs	Thu 6/29/17	Thu 6/29/17
134	0%	Task	Develop Roll Back Plan	6.5 hrs	Thu 6/29/17	Fri 6/30/17
135	0%	Task	Project Build	3.25 days	Fri 6/30/17	Wed 7/5/17
136	0%	Task	Unbox, Post, Prep HW for Config	6.5 hrs	Fri 6/30/17	Fri 6/30/17
137	0%	Task	Modify Config Template Per Device	26 hrs	Fri 6/30/17	Wed 7/5/17
138	0%	Task	Project Deployment	5.38 days	Wed 7/5/17	Wed 7/12/17
139	0%	Task	Hardware Rack/Stack/Cable	13 hrs	Wed 7/5/17	Thu 7/6/17
140	0%	Task	Health Change Window: Inet PES	2 hrs	Thu 7/6/17	Fri 7/7/17
141	0%	Task	Health Change Window: Simple Site	15 hrs	Fri 7/7/17	Tue 7/11/17
142	0%	Task	Health Change Window: 2547 ODMVPN Head-End Routers	4 hrs	Tue 7/11/17	Tue 7/11/17
143	0%	Task	Health Change Window: complex site	9 hrs	Tue 7/11/17	Wed 7/12/17
144	0%	Task	Project Cutover-	0.81 days	Wed 7/12/17	Thu 7/13/17
145	0%	Task	Execute Test Plan - Simple Site	6.5 hrs	Wed 7/12/17	Thu 7/13/17
146	0%	Task	Execute Test Plan - Complex Site	6 hrs	Wed 7/12/17	Thu 7/13/17
147	0%	Task	Project Closeout	3.38 days	Wed 7/12/17	Tue 7/18/17
148	0%	Task	As Built Documentation	8.5 hrs	Wed 7/12/17	Thu 7/13/17
149	0%	Task	Post Cutover support	8.5 hrs	Thu 7/13/17	Fri 7/14/17
150	0%	Task	Training/Knowledge Transfer	8 hrs	Fri 7/14/17	Mon 7/17/17
151	0%	Task	Lessons Learned	2 hrs	Mon 7/17/17	Tue 7/18/17

Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Split	Manual Task	External Milestone
Milestone	Duration-only	Deadline
Summary	Manual Summary Rollup	Progress
Project Summary	Manual Summary	Manual Progress
Inactive Task	Start-only	
Inactive Milestone	Finish-only	

Monterey County Network Infrastructure Upgrade



Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Split	[Icon]	[Icon]
Milestone Summary	[Icon]	[Icon]
Project Summary	[Icon]	[Icon]
Inactive Task	[Icon]	[Icon]
Inactive Milestone	[Icon]	[Icon]

Monterey County Network Infrastructure Upgrade

Predecessors	Resource Names	26, '17	Apr 16, '17	May 7, '17	May 28, '17	Jun 18, '17	Jul 9, '17	Jul 30, '17	Aug 20, '17	Sep 10, '17	Oct 1, '17	Oct 1, '17
		S	S	M	T	W	T	F	S	S	M	T
21	SDP L3											
23	SDP L3											
24	CON L2 A											
25	SDP L3											
27	SDP L3											
28	SDP L3											
29	SDP L3,SDP L2											
29	SDP L2											
30	SDP L2											
33	SDP L3,SDP L2											
34	SDP L3											
35	SDP L3,SDP L2,Monterey											
37	SDP L1											
37	SDP L3											
40	SDP L2											
40	SDP L2											
42	SDP L3											

Task	Inactive Summary	External Tasks
Split		
Milestone		
Summary		
Project Summary		
Inactive Task		
Inactive Milestone		

Project: Monterey County Netw
Date: Fri 3/24/17

Monterey County Network Infrastructure Upgrade

Predecessors	Resource Names	26, 17	Apr 16, 17	May 7, 17	May 28, 17	Jun 18, 17	Jul 9, 17	Jul 30, 17	Aug 20, 17	Sep 10, 17	Oct 1, 17	O	
		S	S	M	T	W	T	F	S	S	M	T	W
44	SDP L3												
45	SDP L3												
46	SDP L2,SDP L3												
46	SDP L2												
49	SDP L3												
49	SDP L2,SDP L3												
20	SDP L3,SDP L2,Monterey												
53	SDP L3												
54	SDP L3												
55	SDP L3												
56	SDP L3												
58	SDP L3												
59	SDP L3												
60	SDP L3												
60	SDP L3												
62	SDP L1												
62	SDP L1												
64	SDP L3												

Task	Inactive Summary	External Tasks
Split		
Milestone		
Summary		
Project Summary		
Inactive Task		
Inactive Milestone		

Project: Monterey County Netw
Date: Fri 3/24/17

Monterey County Network Infrastructure Upgrade

Predecessors	Resource Names	26, '17	Apr 16, '17	May 7, '17	May 28, '17	Jun 18, '17	Jul 9, '17	Jul 30, '17	Aug 20, '17	Sep 10, '17	Oct 1, '17	Nov 1, '17
		S	S	M	T	W	T	F	S	S	M	T
66	SDP L3											
67	SDP L3											
68	SDP L3											
69	SDP L2											
70	SDP L2											
72	SDP L2											
73	SDP L2,SDP L3											
75	SDP L2											
75	SDP L3											
77	SDP L3											
78	SDP L3											
78	SDP L3											
80	SDP L2											
81	SDP L2											
83	SDP L2											
83	SDP L2											
83	SDP L2											
85	PSM L2,SDP L2,CON L1,S											

Project: Monterey County Netw
Date: Fri 3/24/17

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			

Monterey County Network Infrastructure Upgrade

Predecessors	Resource Names	26, 17	Apr 16, 17	May 7, 17	May 28, 17	Jun 18, 17	Jul 9, 17	Jul 30, 17	Aug 20, 17	Sep 10, 17	Oct 1, 17
77	SDP L3,SDP L2,Monterey	S	S	M	T	W	T	F	S	S	M
89	SDP L1										
92	SDP L3										
93	SDP L2										
95	SDP L3										
97	SDP L1,SDP L2,SDP L3										
98	SDP L2										
100	SDP L2										
101	SDP L3										
101	SDP L2,SDP L3										
89	SDP L3										
89	SDP L3,Monterey County										
107	SDP L2										
109	SDP L2										

Task **Inactive Summary** **External Tasks**

Split **Manual Task** **External Milestone**

Milestone **Duration-only** **Deadline**

Summary **Manual Summary Rollup** **Progress**

Project Summary **Manual Summary** **Manual Progress**

Inactive Task **Start-only** **C**

Inactive Milestone **Finish-only** **J**

Project: Monterey County Netw
Date: Fri 3/24/17

Monterey County Network Infrastructure Upgrade

Predecessors	Resource Names	26, '17	Apr 16, '17	May 7, '17	May 28, '17	Jun 18, '17	Jul 9, '17	Jul 30, '17	Aug 20, '17	Sep 10, '17	Oct 1, '17	O	
		S	S	M	T	W	T	F	S	S	M	T	W
110	SDP L2												
111	CON L1												
112	SDP L2												
112	SDP L2												
114	SDP L2												
116	SDP L2												
116	SDP L2												
118	SDP L2												
119	SDP L2,SDP L3												
105	PSM L2												
105	SDP L3,SDP L2,Monterey												
125	SDP L2												
127	SDP L2												
128	SDP L2												
127	SDP L2												
127	SDP L2												
127	SDP L2												

Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Split	Manual Task	External Milestone
Milestone	Duration-only	Deadline
Summary	Manual Summary Rollup	Progress
Project Summary	Manual Summary	Manual Progress
Inactive Task	Start-only	
Inactive Milestone	Finish-only	

Monterey County Network Infrastructure Upgrade

Predecessors	Resource Names	26, 17	Apr 16, 17	May 7, 17	May 28, 17	Jun 18, 17	Jul 9, 17	Jul 30, 17	Aug 20, 17	Sep 10, 17	Oct 1, 17
		S	S	M	T	W	T	F	S	M	T
127	SDP L2						↑ SDP L2				
127	SDP L2						↑ SDP L2				
134	SDP L1						↑ SDP L1				
134	SDP L2						↑ SDP L2				
137	SDP L1						↑ SDP L1				
139	SDP L2						↑ SDP L2				
140	SDP L2						↑ SDP L2				
141	SDP L2						↑ SDP L2				
142	SDP L2						↑ SDP L2				
143	SDP L2						↑ SDP L2				
143	SDP L2						↑ SDP L2				
148	SDP L2						↑ SDP L2				
149	SDP L2						↑ SDP L2				
150	SDP L2,SDP L3						↑ SDP L2,SDP L3				

Task	Inactive Summary	External Tasks
Split		
Milestone		
Summary		
Project Summary		
Inactive Task		
Inactive Milestone		
	Manual Task	External Milestone
	Duration-only	Deadline
	Manual Summary Rollup	Progress
	Manual Summary	Manual Progress
	Start-only	
	Finish-only	

Monterey County Network Infrastructure Upgrade

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
1		Monterey County Network Infrastructure Upgrade Phase 2	72.5 days	Wed 7/19/17	Fri 10/27/17	
2		Phase 5 ISE	21 days	Wed 7/19/17	Wed 8/16/17	
3		Customer Kickoff Meeting	1 day	Wed 7/19/17	Wed 7/19/17	
4		Project Discovery	2 days	Wed 7/19/17	Thu 7/20/17	
5		Design Workshop	1 day	Wed 7/19/17	Wed 7/19/17	
6		Data gathering and analysis	2 days	Wed 7/19/17	Thu 7/20/17	
7		Project Build	12 days	Fri 7/21/17	Mon 8/7/17	
8		Develop Detailed Design	5 days	Fri 7/21/17	Thu 7/27/17	6
9		Develop Test Plan	2 days	Fri 7/21/17	Mon 7/24/17	6
10		Rack, Stack, Cable, Install (hw/sw)	1 day	Fri 7/28/17	Fri 7/28/17	8
11		Configure Admin/policy/M&T Server	2 days	Mon 7/31/17	Tue 8/1/17	10
12		Configure Authentication Policy (wired, wireless, MAB)	2 days	Mon 7/31/17	Tue 8/1/17	10
13		Configure Authorization Policy (wired, wireless, MAB)	4 days	Mon 7/31/17	Thu 8/3/17	10

Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Split	Manual Task	External Milestone
Milestone	Duration-only	Deadline
Summary	Manual Summary Rollup	Progress
Project Summary	Manual Summary	Manual Progress
Inactive Task	Start-only	
Inactive Milestone	Finish-only	

Monterey County Network Infrastructure Upgrade

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
14	☛	Configure Guest Services	3 days	Wed 8/2/17	Fri 8/4/17	11
15	☛	Configure Profiling	4 days	Wed 8/2/17	Mon 8/7/17	11
16	☛	Configure advanced customizations	4 days	Wed 8/2/17	Mon 8/7/17	11
17	☛	Project Deployment	1 day	Tue 8/8/17	Tue 8/8/17	
18	☛	Deploy Policies/base configurations	1 day	Tue 8/8/17	Tue 8/8/17	16
19	☛	Project Cutover	5 days	Wed 8/9/17	Tue 8/15/17	
20	☛	Preproduction Testing	4 days	Wed 8/9/17	Mon 8/14/17	18
21	☛	Fallover Testing	1 day	Tue 8/15/17	Tue 8/15/17	20
22	☛	Project Closeout	1 day	Wed 8/16/17	Wed 8/16/17	
23	☛	Technical Lessons Learned	1 hr	Wed 8/16/17	Wed 8/16/17	21
24	☛	Training/Knowledge Transfer	1 day	Wed 8/16/17	Wed 8/16/17	21
25	☛	Phase 7 - PAN	17.25 days	Thu 8/17/17	Mon 9/11/17	
26	☛	Customer Kickoff Meeting	1 hr	Thu 8/17/17	Thu 8/17/17	24
27	☛	Project Definition	2 days	Thu 8/17/17	Mon 8/21/17	

Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Split	Manual Task	External Milestone
Milestone	Duration-only	Deadline
Summary	Manual Summary Rollup	Progress
Project Summary	Manual Summary	Manual Progress
Inactive Task	Start-only	
Inactive Milestone	Finish-only	

Monterey County Network Infrastructure Upgrade

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
28	Task Mode	Develop policies/Base Configurations	1 day	Thu 8/17/17	Fri 8/18/17	26
29	Task Mode	Data gathering and analysis	1 day	Fri 8/18/17	Mon 8/21/17	28
30	Task Mode	Project Build				
31	Task Mode	Develop Detailed Design	8.5 days	Mon 8/21/17	Thu 8/31/17	29
32	Task Mode	Rack, Stack, Cable, Install (hw/sw)	1 day	Mon 8/21/17	Tue 8/22/17	29
33	Task Mode	Configure management server	1 day	Tue 8/22/17	Wed 8/23/17	31
34	Task Mode	Configure HA	1 day	Wed 8/23/17	Thu 8/24/17	32
35	Task Mode	Configure FW Policy	3 hrs	Wed 8/23/17	Wed 8/23/17	32
36	Task Mode	Configure ids/ips policy	6.5 days	Wed 8/23/17	Thu 8/31/17	32
37	Task Mode	Configure malware/av policy	1 day	Wed 8/23/17	Thu 8/24/17	32
38	Task Mode	Policy Migration	1 day	Wed 8/23/17	Thu 8/24/17	32
39	Task Mode	Project Deployment				
40	Task Mode	Deploy Policies/base configurations	2 days	Fri 8/25/17	Fri 8/25/17	32

Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Split	Manual Task	External Milestone
Milestone	Duration-only	Deadline
Summary	Manual Summary Rollup	Progress
Project Summary	Manual Summary	Manual Progress
Inactive Task	Start-only	
Inactive Milestone	Finish-only	

Monterey County Network Infrastructure Upgrade

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
41	Task	Project Cutover	10 days	Fri 8/25/17	Fri 9/8/17	
42	Task	Migration/Cutover	6.5 days	Fri 8/25/17	Mon 9/4/17	40
43	Task	Migration/Cutover Testing	1.5 days	Mon 9/4/17	Wed 9/6/17	42
44	Task	Preproduction Testing	1 day	Mon 9/4/17	Tue 9/5/17	42
45	Task	Fallover Testing	6 hrs	Tue 9/5/17	Wed 9/6/17	44
46	Task	Next Day support	2 days	Wed 9/6/17	Fri 9/8/17	43
47	Task	Project Close	1 day	Fri 9/8/17	Mon 9/11/17	
48	Task	Technical Lessons Learned	0.5 days	Fri 9/8/17	Fri 9/8/17	46
49	Task	Training/Knowledge Transfer	1 day	Fri 9/8/17	Mon 9/11/17	46
50	Task	Phase 8 Migrate Remaining Sites	34.25 days	Mon 9/11/17	Fri 10/27/17	
51	Task	Customer Kickoff Meeting	1 day	Mon 9/11/17	Tue 9/12/17	49
52	Task	Project Staging	13.75 days	Tue 9/12/17	Fri 9/29/17	
53	Task	Update Head-End MOP for ASRLKs (2)	0.5 days	Tue 9/12/17	Tue 9/12/17	51

Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Split	Manual Task	External Milestone
Milestone	Duration-only	Deadline
Summary	Manual Summary Rollup	Progress
Project Summary	Manual Summary	Manual Progress
Inactive Task	Start-only	
Inactive Milestone	Finish-only	

Monterey County Network Infrastructure Upgrade

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
54		Update MOP for I-NET PES	0.5 days	Tue 9/12/17	Wed 9/13/17	53
55		Develop Remote Site Per Device Template for MOP Document-Complex Sites	3 days	Wed 9/13/17	Mon 9/18/17	54
56		Develop Test Plan for 25470DMVPN sites & Head-End	1 hr	Mon 9/18/17	Mon 9/18/17	55
57		Develop Roll Back Plan (Simple Per Site)	1.5 days	Mon 9/18/17	Tue 9/19/17	56
58		Develop MOP for PE-CE Elements for Simple Remote Site	3 days	Tue 9/19/17	Fri 9/22/17	57
59		Develop Remote Site Per Device Template for MOP Document	3 days	Fri 9/22/17	Wed 9/27/17	58
60		Augment Test Plan: Additional VRFs	1 hr	Wed 9/27/17	Wed 9/27/17	59
61		Develop Roll Back Plan	2 days	Thu 9/28/17	Fri 9/29/17	60
62		Project Build				
63		Modify Config Template(per device)	7.5 days	Mon 10/2/17	Wed 10/11/17	61
64		Project Deployment				
65		Change Window: 25470DMVPN Head-End Router	12.5 days	Mon 10/2/17	Wed 10/18/17	63
66		Change Window: Complex	0.5 hrs	Wed 10/11/17	Wed 10/11/17	63
			2 days	Wed 10/11/17	Fri 10/13/17	63

Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Split Milestone	Manual Task	External Milestone
Summary	Duration-only	Deadline
Project Summary	Manual Summary Rollup	Progress
Inactive Task	Start-only	Manual Progress
Inactive Milestone	Finish-only	

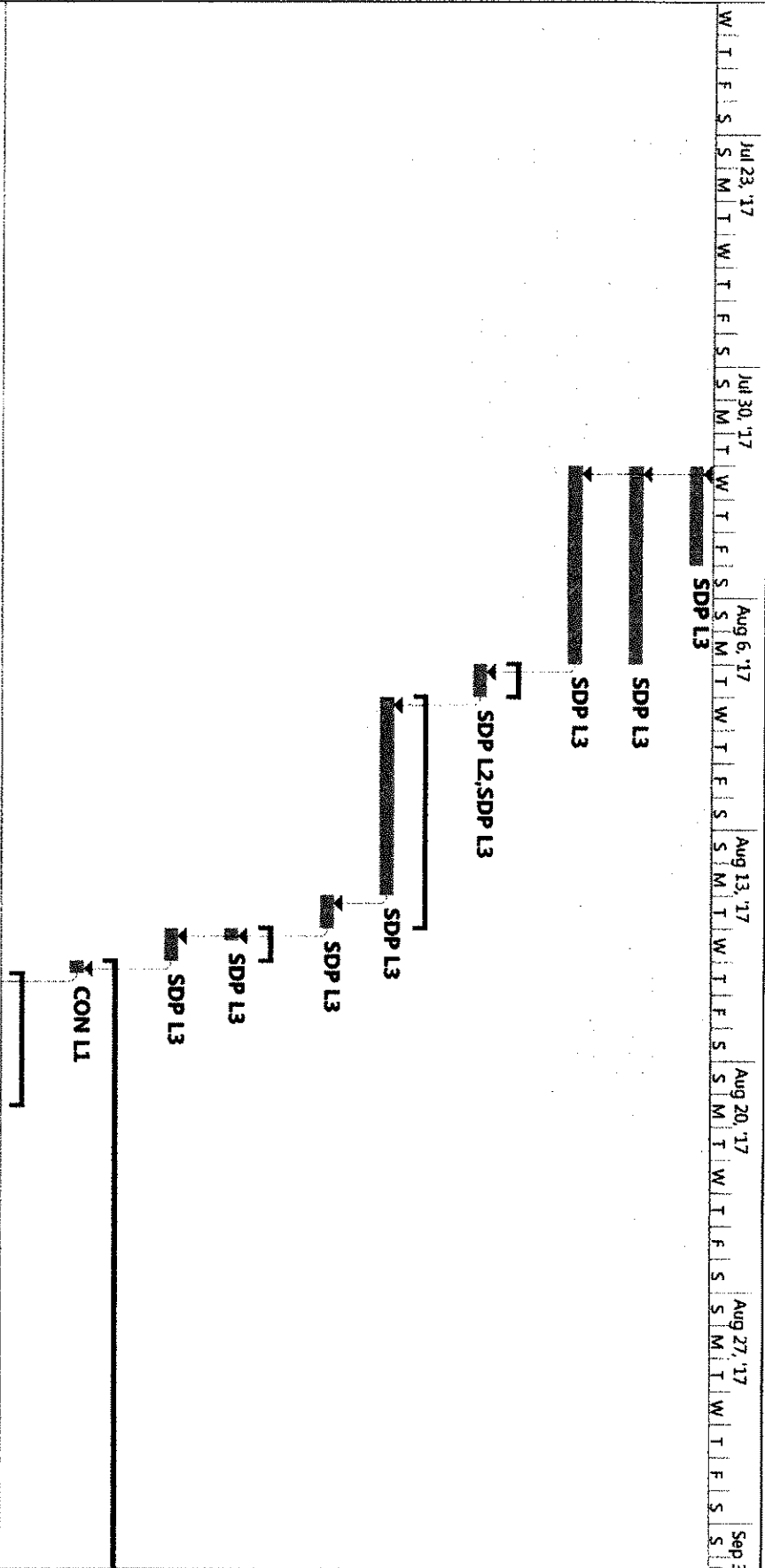
Monterey County Network Infrastructure Upgrade

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
67		Change Window: Remote Simple Site	3 days	Fri 10/13/17	Wed 10/18/17	66
68		Health Change Window: Inet Pes	2 hrs	Fri 10/13/17	Fri 10/13/17	66
69		Hardware Rack/Stack/Cable	30 hrs	Mon 10/2/17	Thu 10/5/17	61
70		Execute Test Plan - Simple site	12 hrs	Fri 10/13/17	Tue 10/17/17	68
71		Execute Test Plan - Complex Site	6 hrs	Fri 10/13/17	Mon 10/16/17	68
72		Project Closeout	9 days	Mon 10/16/17	Fri 10/27/17	
73		Create As Built Documentation	0.5 days	Mon 10/16/17	Mon 10/16/17	71
74		Post Cutover support	60 hrs	Tue 10/17/17	Thu 10/26/17	73
75		Training/Knowledge Transfer	1 day	Thu 10/26/17	Fri 10/27/17	74
76		Lessons Learned	1 day	Thu 10/26/17	Fri 10/27/17	74

Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Split		
Milestone		
Summary		
Project Summary		
Inactive Task		
Inactive Milestone		

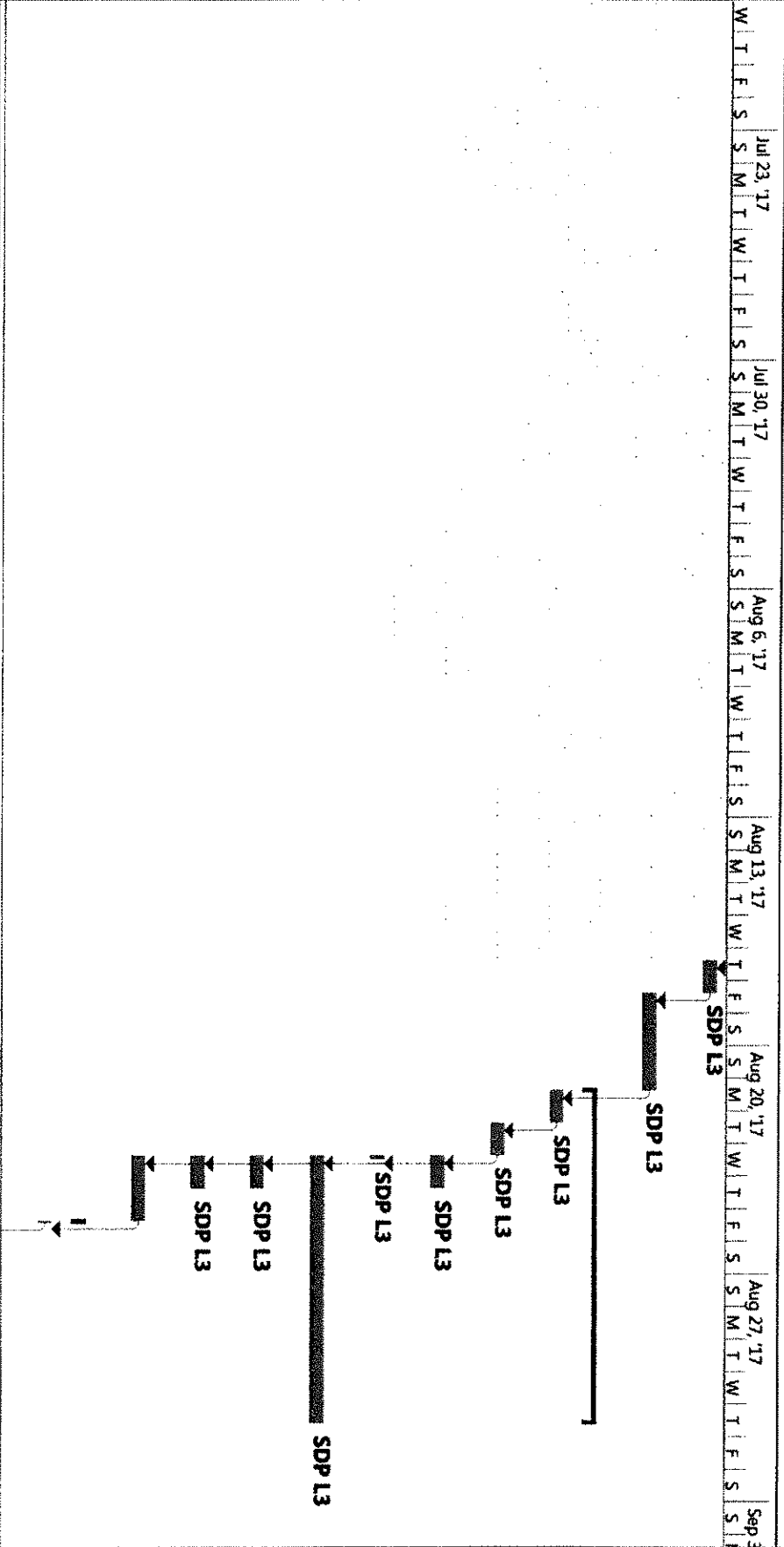
Monterey County Network Infrastructure Upgrade



Task	Inactive Summary	External Tasks
Split	External Milestone
Milestone	◆	Deadline
Summary	┌──────────┐	Progress
Project Summary	┌──────────┐	Manual Progress
Inactive Task	Start-only	┌
Inactive Milestone	Finish-only	┐

Project: Monterey County Netw
 Date: Fri 3/24/17

Monterey County Network Infrastructure Upgrade



Project: Monterey County Netw
 Date: Fri 3/24/17

Monterey County Network Infrastructure Upgrade

3, '17	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	

<p>Project: Monterey County Netw Date: Fri 3/24/17</p>	<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; vertical-align: top;"> <p>Task</p> <p>Split</p> <p>Milestone</p> <p>Summary</p> <p>Project Summary</p> <p>Inactive Task</p> <p>Inactive Milestone</p> </td> <td style="width: 60%; text-align: center; vertical-align: top;"> </td> <td style="width: 20%; vertical-align: top;"> <p>Inactive Summary</p> <p>Manual Task</p> <p>Duration-only</p> <p>Manual Summary Rollup</p> <p>Manual Summary</p> <p>Start-only</p> <p>Finish-only</p> </td> <td style="width: 20%; vertical-align: top;"> <p>External Tasks</p> <p>External Milestone</p> <p>Deadline</p> <p>Progress</p> <p>Manual Progress</p> </td> </tr> </table>	<p>Task</p> <p>Split</p> <p>Milestone</p> <p>Summary</p> <p>Project Summary</p> <p>Inactive Task</p> <p>Inactive Milestone</p>		<p>Inactive Summary</p> <p>Manual Task</p> <p>Duration-only</p> <p>Manual Summary Rollup</p> <p>Manual Summary</p> <p>Start-only</p> <p>Finish-only</p>	<p>External Tasks</p> <p>External Milestone</p> <p>Deadline</p> <p>Progress</p> <p>Manual Progress</p>
<p>Task</p> <p>Split</p> <p>Milestone</p> <p>Summary</p> <p>Project Summary</p> <p>Inactive Task</p> <p>Inactive Milestone</p>		<p>Inactive Summary</p> <p>Manual Task</p> <p>Duration-only</p> <p>Manual Summary Rollup</p> <p>Manual Summary</p> <p>Start-only</p> <p>Finish-only</p>	<p>External Tasks</p> <p>External Milestone</p> <p>Deadline</p> <p>Progress</p> <p>Manual Progress</p>		

Monterey County Network Infrastructure Upgrade

3, 17							Sep 10, '17							Sep 17, '17							Sep 24, '17							Oct 1, '17							Oct 8, '17							Oct 15, '17													
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S

<p>Project: Monterey County Netw Date: Fri 3/24/17</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Task</td> <td style="width: 25%;">Inactive Summary</td> <td style="width: 25%;">External Tasks</td> <td style="width: 25%;"></td> </tr> <tr> <td>Split</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Milestone</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Summary</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Project Summary</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Inactive Task</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Inactive Milestone</td> <td></td> <td></td> <td></td> </tr> </table>	Task	Inactive Summary	External Tasks		Split				Milestone				Summary				Project Summary				Inactive Task				Inactive Milestone			
Task	Inactive Summary	External Tasks																											
Split																													
Milestone																													
Summary																													
Project Summary																													
Inactive Task																													
Inactive Milestone																													

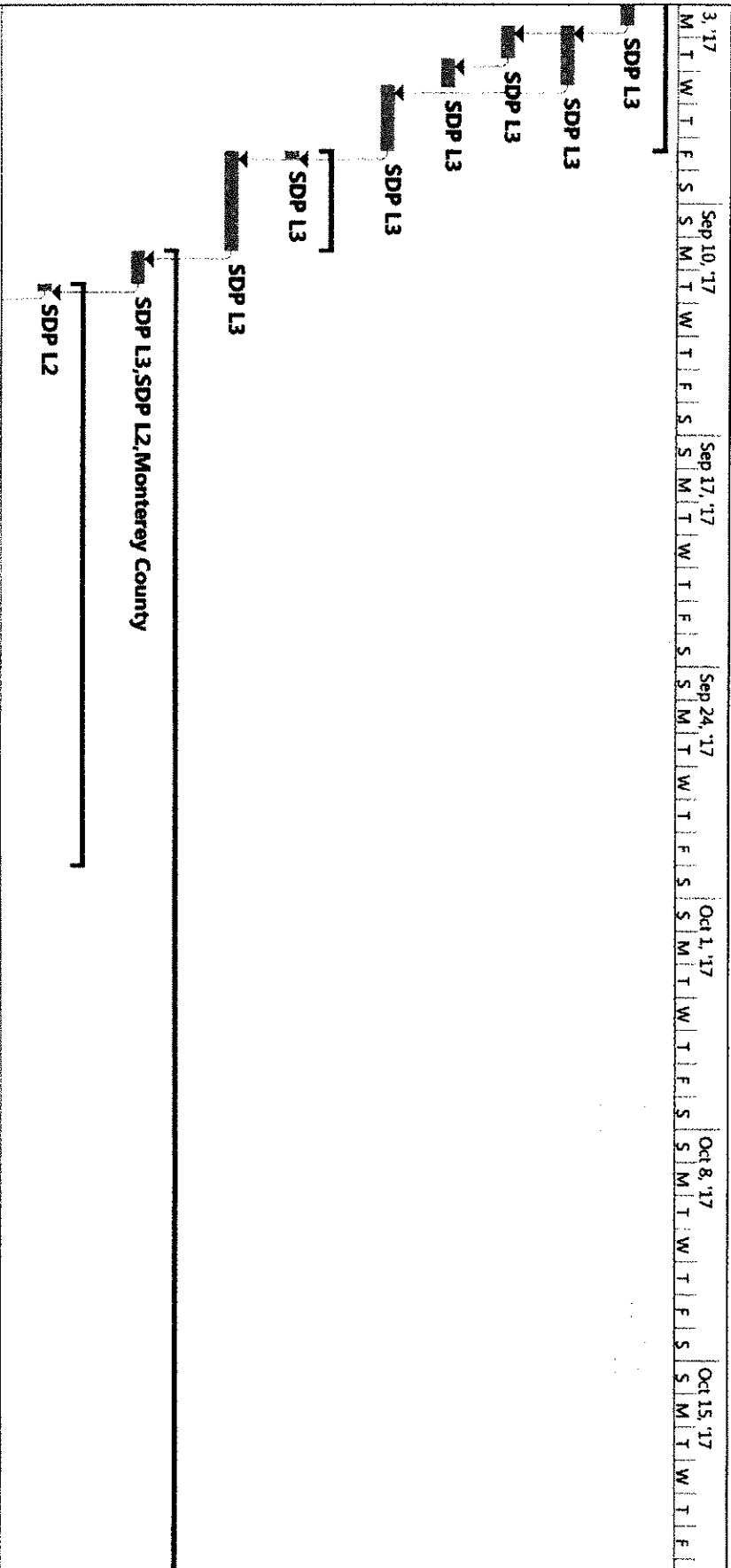
Monterey County Network Infrastructure Upgrade

3, '17	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F															
							Sep 10, '17							Sep 17, '17							Sep 24, '17							Oct 1, '17							Oct 8, '17							Oct 15, '17						

<p>Task</p> <p>Split</p> <p>Milestone</p> <p>Summary</p> <p>Project Summary</p> <p>Inactive Task</p> <p>Inactive Milestone</p>		<p>Inactive Summary</p> <p>Manual Task</p> <p>Duration-only</p> <p>Manual Summary Rollup</p> <p>Manual Summary</p> <p>Start-only</p> <p>Finish-only</p>	<p>External Tasks</p> <p>External Milestone</p> <p>Deadline</p> <p>Progress</p> <p>Manual Progress</p>
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Project: Monterey County Netw
Date: Fri 3/24/17

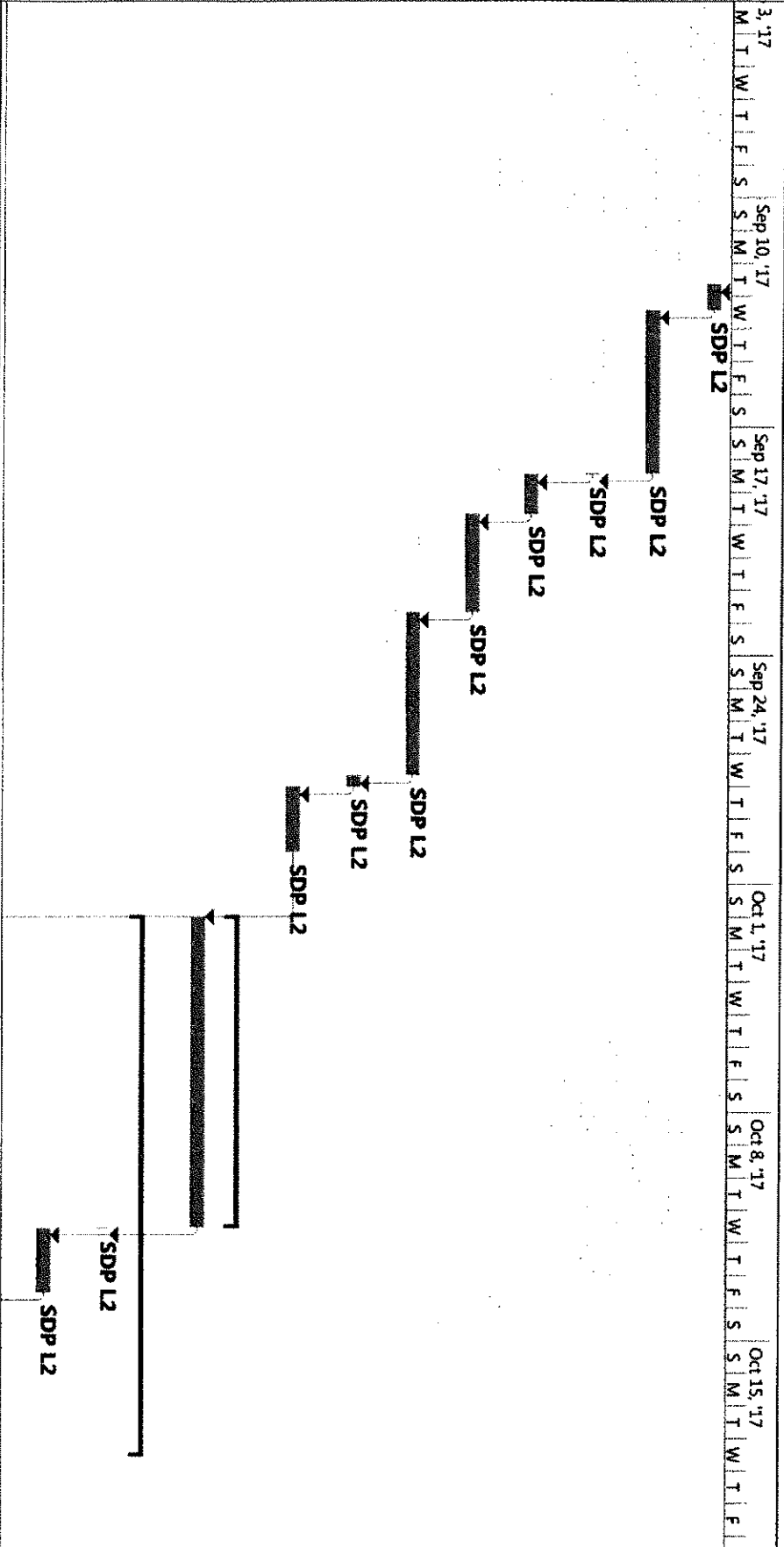
Monterey County Network Infrastructure Upgrade



Task	Inactive Summary	External Tasks
Split	Manual Task	External Milestone
Milestone	Duration-only	Deadline
Project Summary	Manual Summary Rollup	Progress
Inactive Task	Start-only	Manual Progress
Inactive Milestone	Finish-only	

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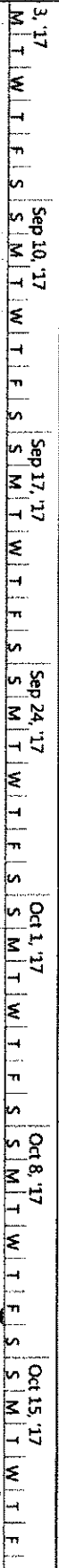
Monterey County Network Infrastructure Upgrade



Project: Monterey County Netw
Date: Fri 3/24/17

Task	Inactive Summary	External Tasks
Task Split	Manual Task	External Milestone
Milestone Summary	Duration-only	Deadline
Project Summary	Manual Summary Rollup	Progress
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Inactive Milestone	Finish-only	

Monterey County Network Infrastructure Upgrade



Task	Inactive Summary	External Tasks
Split	Manual Task	External Milestone
Milestone	Duration-only	Deadline
Summary	Manual Summary Rollup	Progress
Project Summary	Manual Summary	Manual Progress
Inactive Task	Start-only	
Inactive Milestone	Finish-only	

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