



## APPENDIX A – CUSTOMIZED MARKET PACKAGES





### APPENDIX A

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#### Figure A1 – ATMS01 – Network Surveillance: City of San Angelo Traffic Operations Center

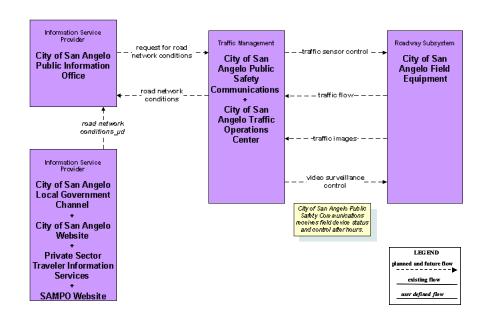
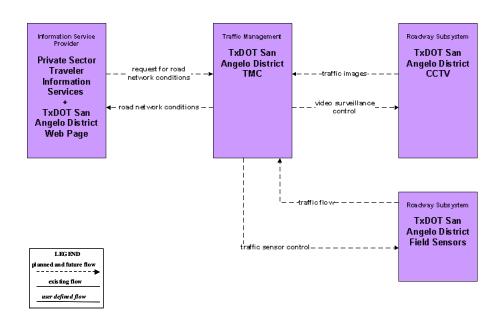


Figure A2 – ATMS01 – Network Surveillance: TxDOT San Angelo District TMC







# Figure A3 – ATMS02 – Probe Surveillance: TxDOT San Angelo District

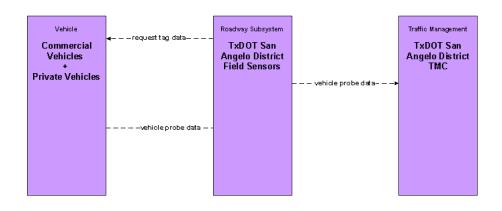
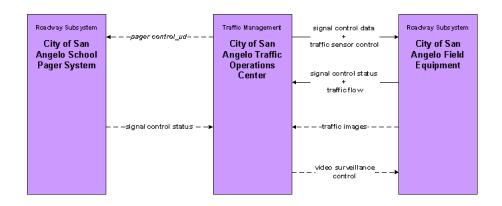




Figure A4 – ATMS03 – Surface Street Control: City of San Angelo Traffic Operations Center









# Figure A5 – ATMS03 – Surface Street Control: TxDOT San Angelo District TMC

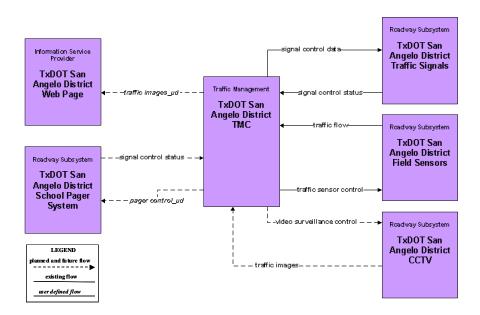
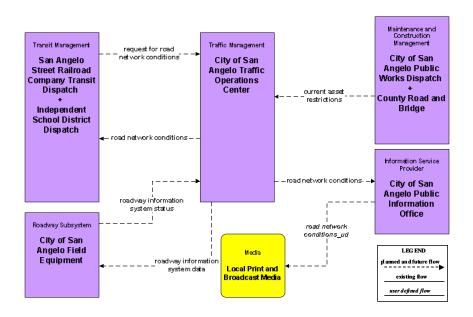


Figure A6 – ATMS06 – Traffic Information Dissemination: City of San Angelo Traffic Operations Center







#### Figure A7 – ATMS06 – Traffic Information Dissemination: City of San Angelo Traffic Operations Center (TM to EM/ISP)

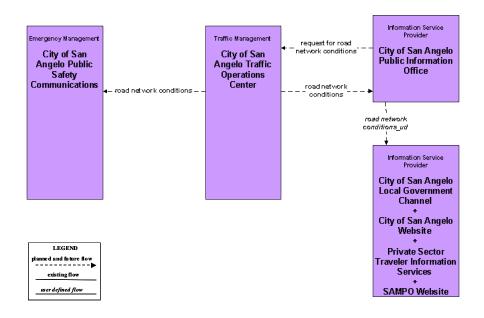


Figure A8 – ATMS06 – Traffic Information Dissemination: TxDOT San Angelo District TMC

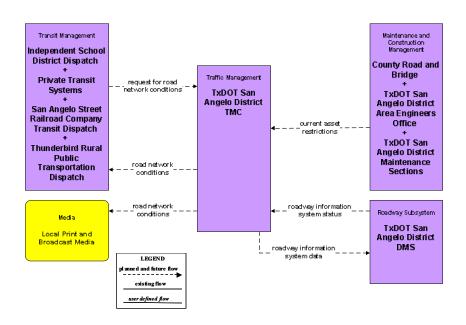






Figure A9 – ATMS06 – Traffic Information Dissemination: TxDOT San Angelo District TMC (TM to EM/ISP)

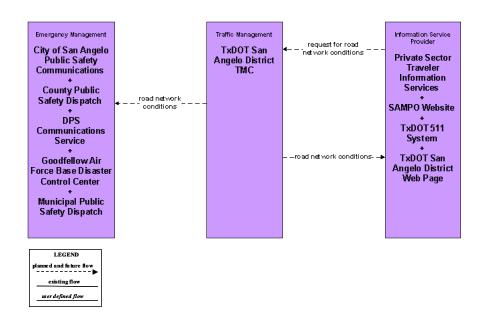
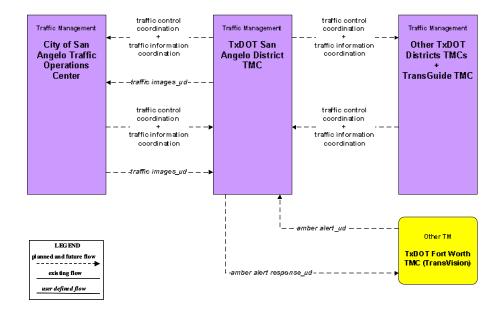


Figure A10 - ATMS07 - Regional Traffic Control







#### Figure A11 – ATMS08 – Incident Management: City of San Angelo Traffic Operations Center (TM to EM)

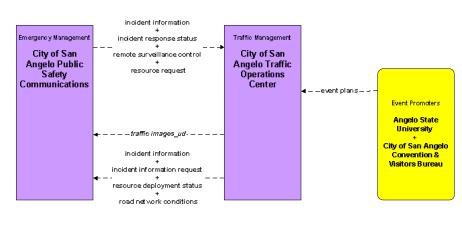
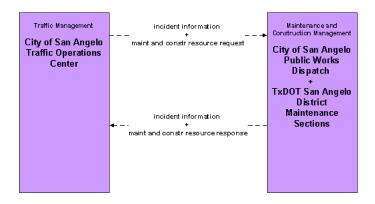




Figure A12 – ATMS08 – Incident Management: City of San Angelo Traffic Operations Center (TM to MCM)









## Figure A13 – ATMS08 – Incident Management: TxDOT San Angelo District TMC (TM to EM)

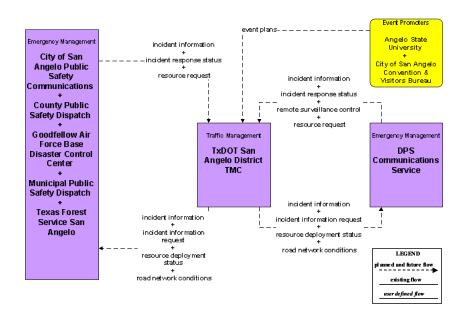


Figure A14 – ATMS08 – Incident Management: TxDOT San Angelo District TMC (TM to MCM)

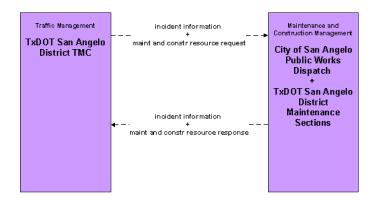








Figure A15 – ATMS08 – Incident Management: City of San Angelo PWD (MCM to EM)

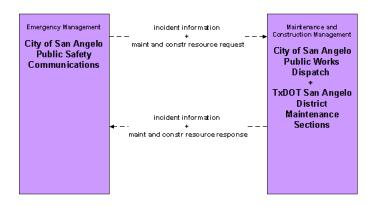




Figure A16 – ATMS08 – Incident Management: TxDOT San Angelo District Maintenance Sections (MCM to EM)

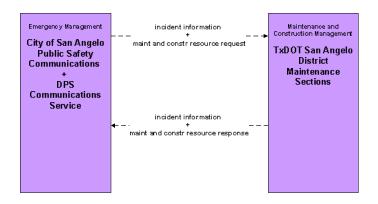








Figure A17 – ATMS08 – Incident Management: County Road and Bridge (MCM to EM)

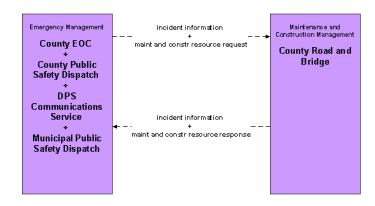
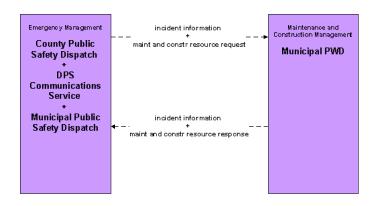




Figure A18 – ATMS08 – Incident Management: Municipal PWD (MCM to EM)

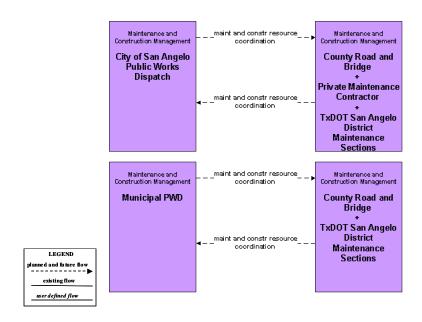




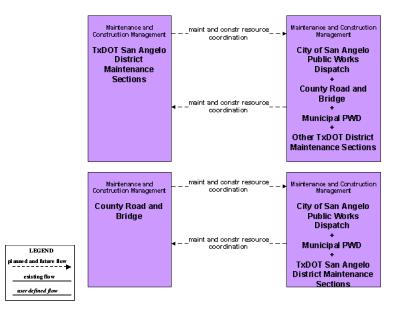




#### Figure A19 – ATMS08 – Incident Management: City of San Angelo/Municipal Maintenance (MCM to Other MCM)



# Figure A20 – ATMS08 – Incident Management: TxDOT/County Road and Bridge (MCM to Other MCM)







## Figure A21 – ATMS08 – Incident Management: City of San Angelo/Municipalities (EM to EVS)

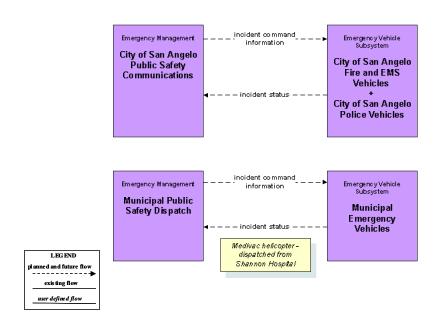
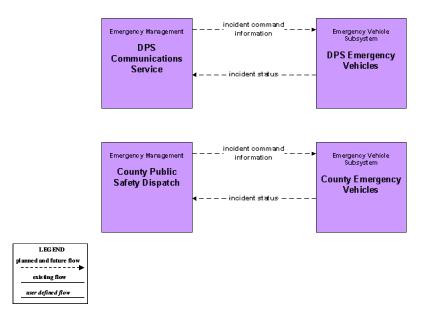


Figure A22 – ATMS08 – Incident Management: EM to EVS







## Figure A23 – ATMS08 – Incident Management: Flood Monitoring – City of San Angelo

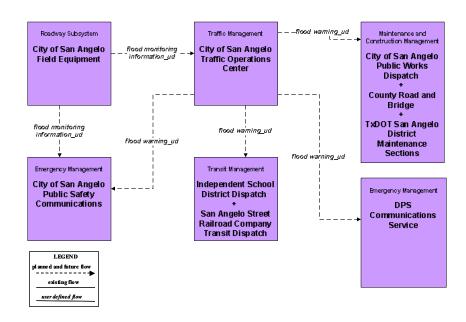
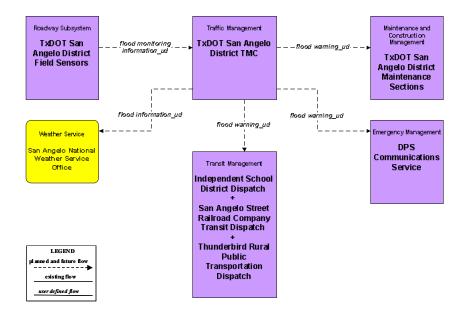


Figure A24 – ATMS08 – Incident Management: Flood Monitoring – TxDOT San Angelo







## Figure A25 – ATMS08 – Incident Management: Flood Monitoring – County Road and Bridge

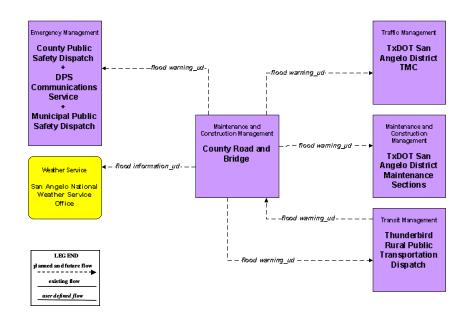
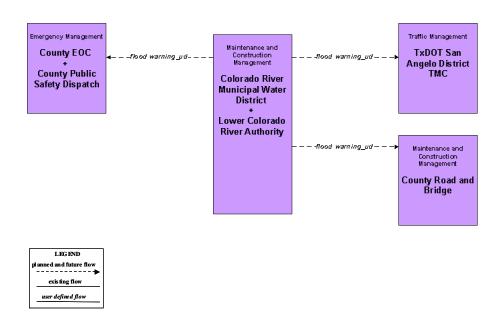


Figure A26 – ATMS08 – Incident Management: Flood Monitoring – Colorado River Authority/Water District







#### Figure A27 – ATMS08 – Incident Management: Rail Operations Coordination

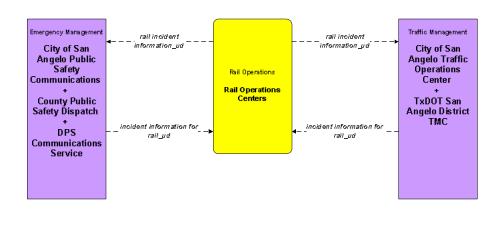
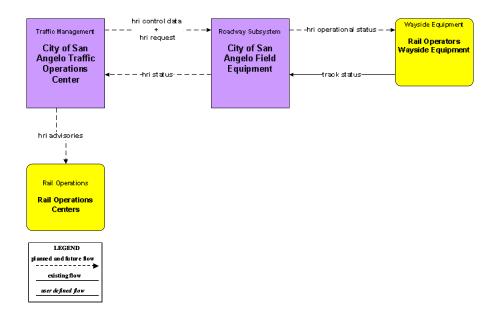




Figure A28 – ATMS13 – Standard Railroad Crossing: City of San Angelo Traffic Operations Center







# Figure A29 – ATMS13 – Standard Railroad Crossing: TxDOT San Angelo District TMC

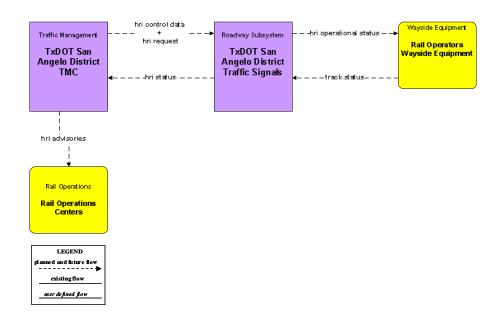
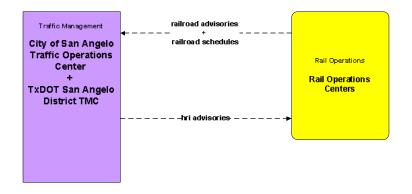


Figure A30 – ATMS15 – Railroad Operations Coordination: City of San Angelo Traffic Operations Center









# Figure A31 – ATMS19 – Speed Monitoring: TxDOT San Angelo District

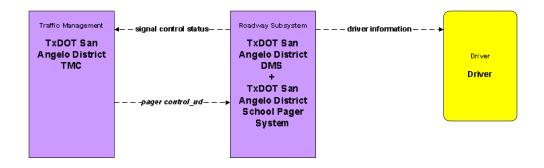




Figure A32 – ATMS22 – Red Light Running: City of San Angelo

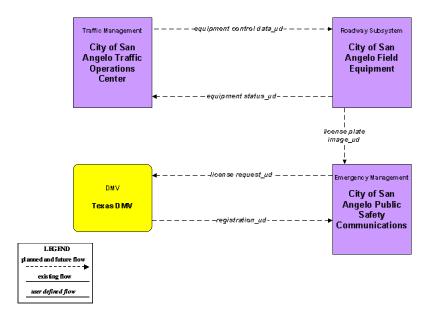






Figure A33 – EM01 – Emergency Response Coordination: San Angelo Region Incident and Mutual Aid Network

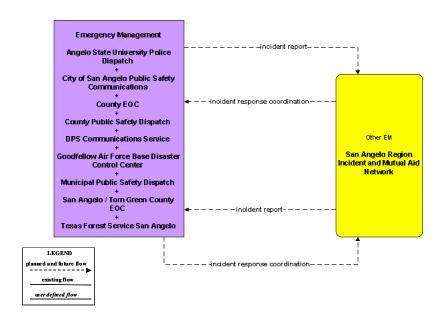


Figure A34 – EM01 – Emergency Response: City of San Angelo

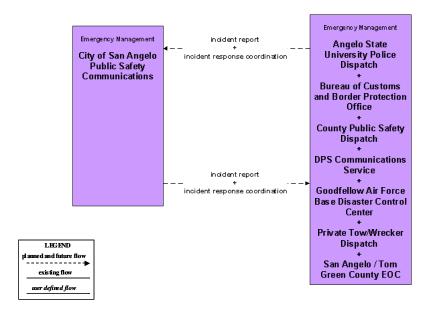






Figure A35 – EM01 – Emergency Response: City of San Angelo EOC

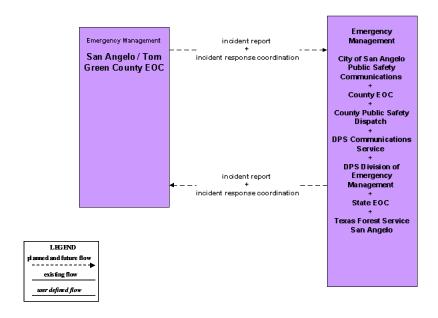


Figure A36 – EM01 – Emergency Response: County Public Safety

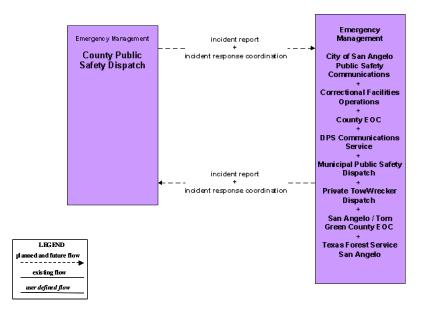






Figure A37 – EM01 – Emergency Response: County EOC

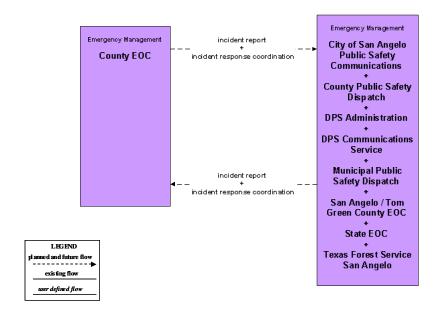


Figure A38 – EM01 – Emergency Response: DPS

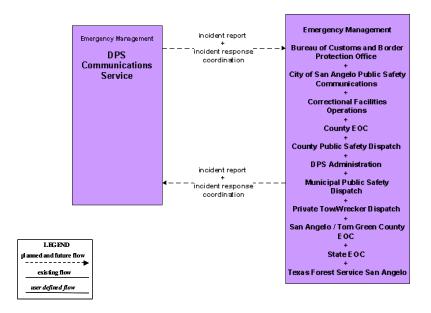






Figure A39 – EM01 – Emergency Response: Goodfellow AFB

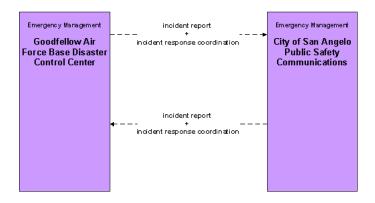




Figure A40 – EM01 – Emergency Response: Municipal Public Safety

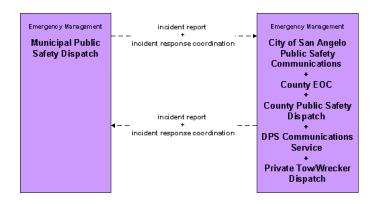








Figure A41 – EM01 – Emergency Response: BCBP Office

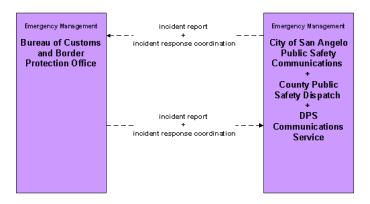




Figure A42 – EM01 – Emergency Response: Corrections Facilities

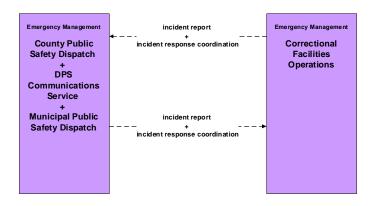
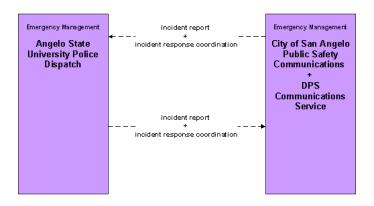






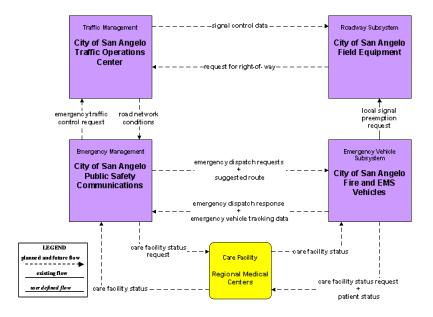


Figure A43 – EM01 – Emergency Response: Angelo State University Police



I LEGEND
pl anned and future flow
exis fing flow
user defined flow

Figure A44 – EM02 – Emergency Vehicle Routing: City of San Angelo Fire Vehicles







#### Figure A45 – EM02 – Emergency Vehicle Routing: City of San Angelo Police Vehicles

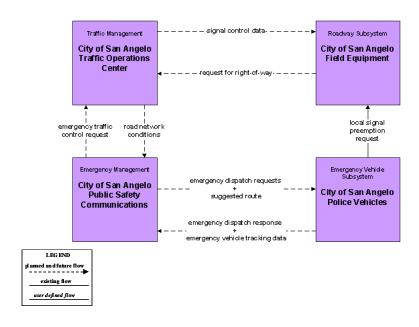


Figure A46 – EM02 – Emergency Vehicle Routing: City of San Angelo Police, Fire, and EMS Vehicles

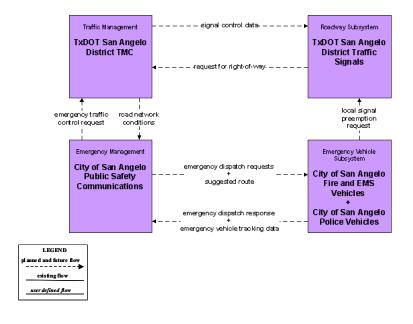






Figure A47 – EM02 – Emergency Vehicle Routing: Volunteer Fire Vehicles

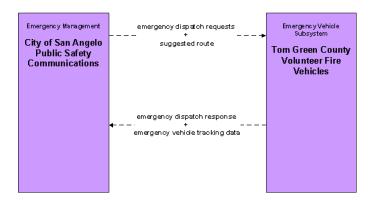




Figure A48 – EM02 – Emergency Vehicle Routing: County Public Safety Vehicles

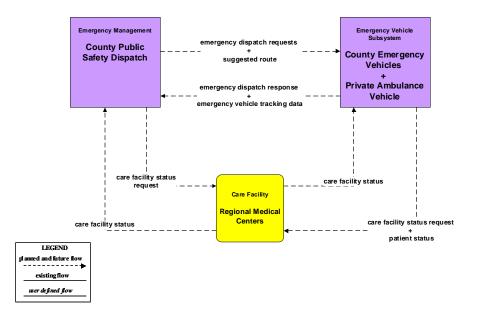






Figure A49 – EM02 – Emergency Vehicle Routing: Municipal Public Safety Vehicles

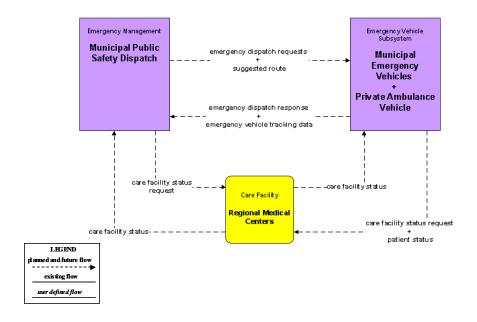


Figure A50 – EM02 – Emergency Vehicle Routing: DPS Vehicles

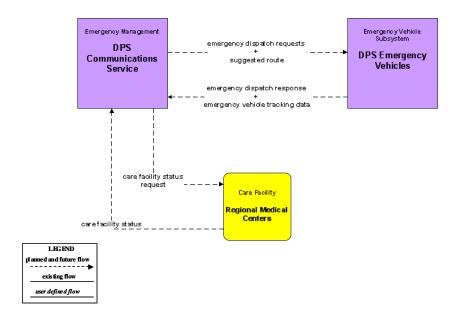






Figure A51 – MC01 – Maintenance and Construction Vehicle Tracking: City of San Angelo PWD/Municipal PWD

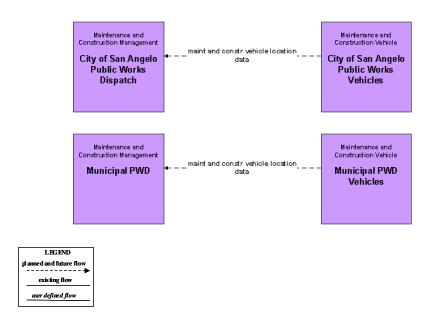


Figure A52 – MC01 – Maintenance and Construction Vehicle Tracking: TxDOT San Angelo District Maintenance Sections/County Road and Bridge

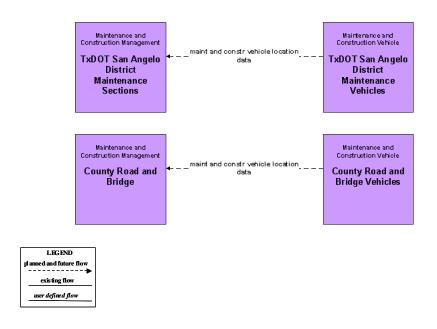






Figure A53 – MC02 – Maintenance and Construction Vehicle Maintenance: City of San Angelo PWD

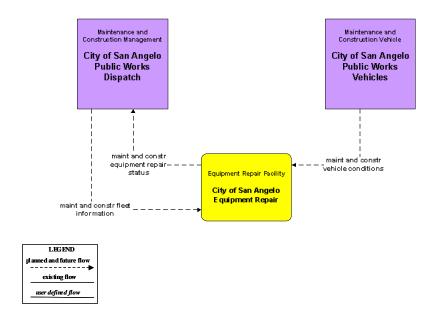


Figure A54 – MC02 – Maintenance and Construction Vehicle Maintenance: TxDOT San Angelo Maintenance Sections

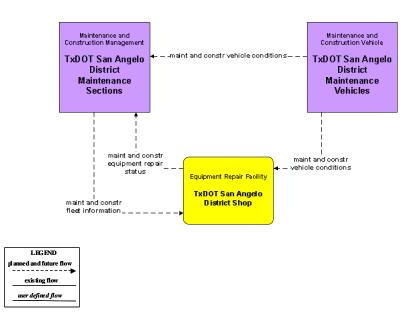






Figure A55 – MC02 – Maintenance and Construction Vehicle Maintenance: County Road and Bridge

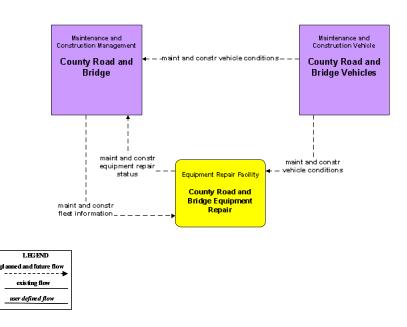


Figure A56 – MC03 – Road Weather Data Collection: TxDOT San Angelo District Maintenance Sections

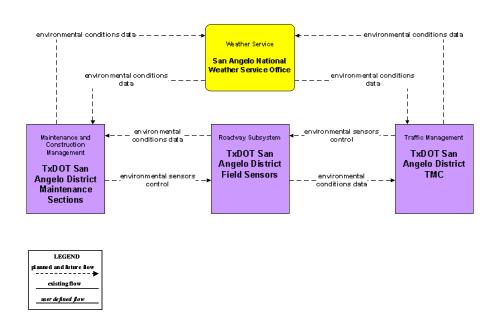






Figure A57 – MC04 – Weather Information Processing and Distribution: National Weather Service

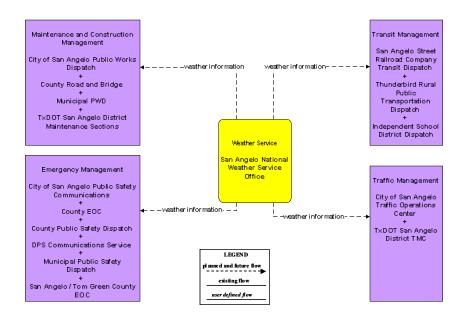


Figure A58 – MC04 – Weather Information Processing and Distribution: TxDOT Highway Conditions Reporting System

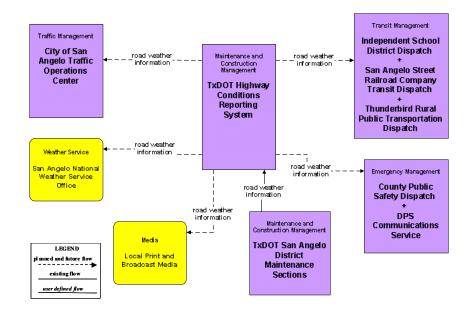
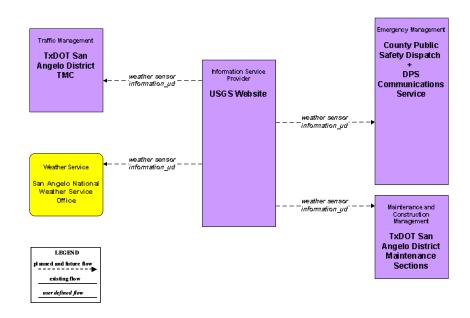


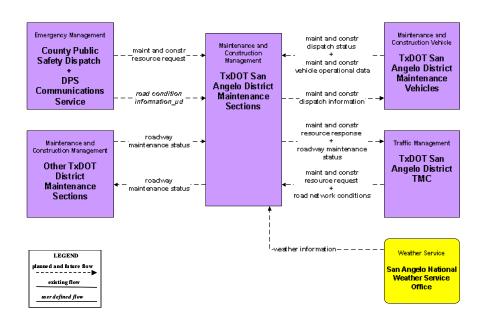




Figure A59 – MC04 – Weather Information Processing and Distribution: USGS Website



# Figure A60 – MC06 – Winter Maintenance: TxDOT San Angelo District Maintenance Sections







## Figure A61 – MC06 – Winter Maintenance: TxDOT San Angelo District TMC

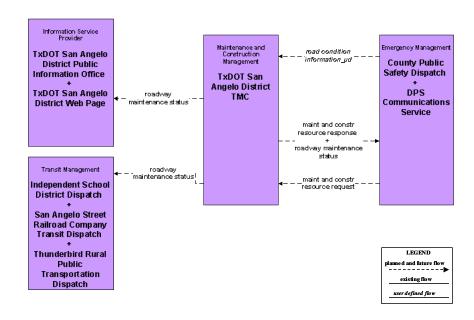
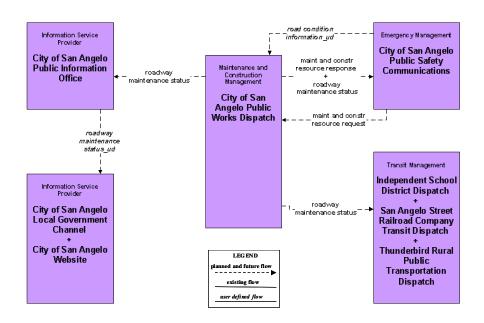


Figure A62 – MC06 – Winter Maintenance: City of San Angelo PWD







## Figure A63 – MC07 – Roadway Maintenance and Construction: TxDOT San Angelo District Maintenance Sections

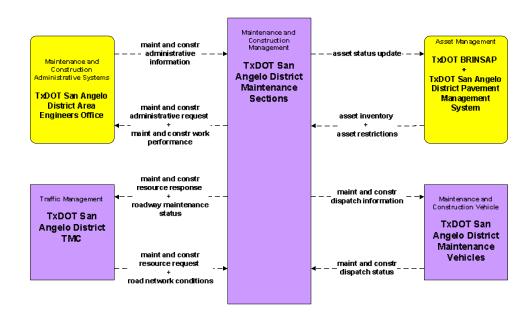


Figure A64 – MC07 – Roadway Maintenance and Construction: TxDOT San Angelo District Traffic Signal Shop

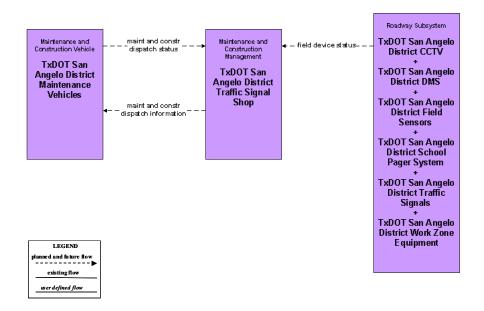






Figure A65 – MC07 – Roadway Maintenance and Construction: County Road and Bridge

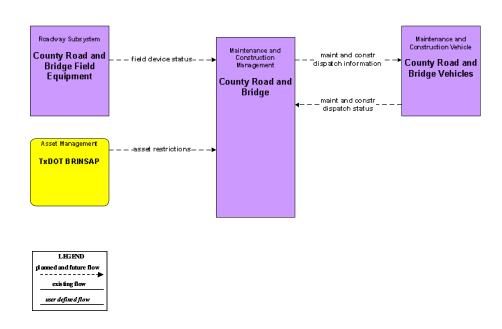


Figure A66 – MC07 – Roadway Maintenance and Construction: City of San Angelo PWD

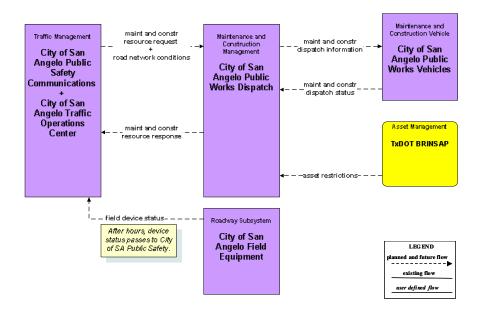






Figure A67 – MC07 – Roadway Maintenance and Construction: Municipal PWD

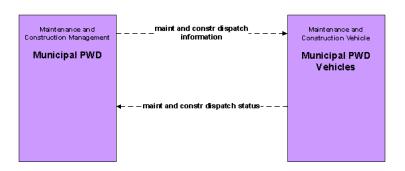
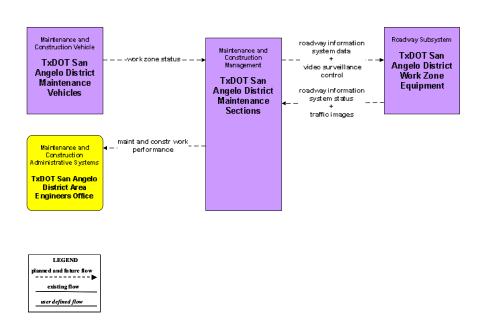




Figure A68 – MC08 – Workzone Management: TxDOT San Angelo District Maintenance Sections







#### Figure A69 – MC08 – Workzone Management: TxDOT San Angelo District Workzone Information Dissemination (1 of 2)

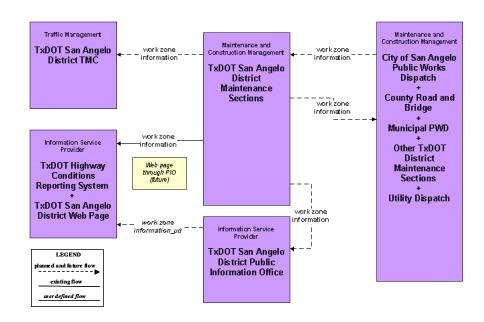
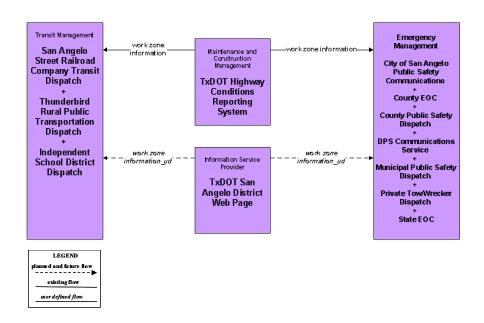


Figure A70 – MC08 – Workzone Management: TxDOT San Angelo District Workzone Information Dissemination (2 of 2)







#### Figure A71 – MC08 – Workzone Management: County Road and Bridge

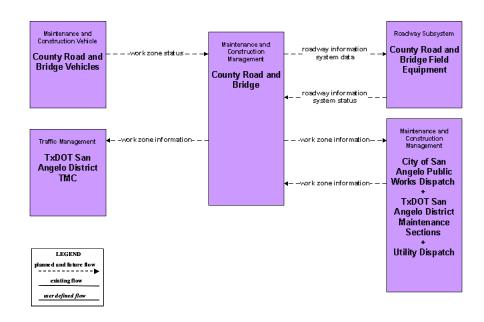


Figure A72 – MC08 – Workzone Management: City of San Angelo PWD

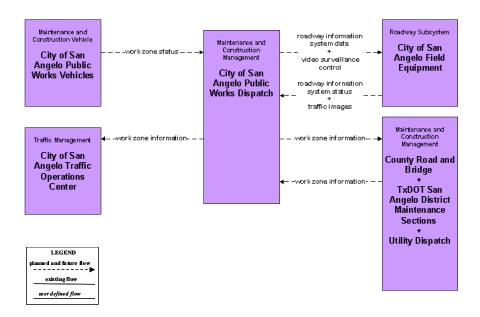
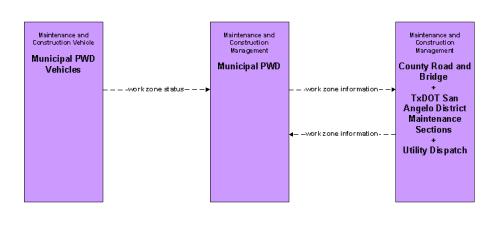




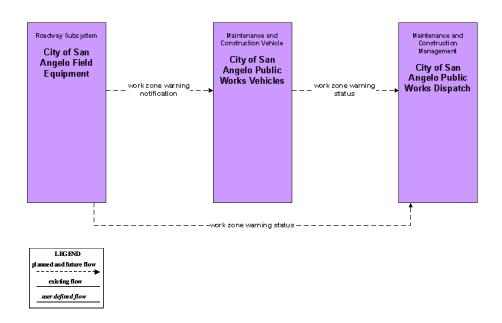


Figure A73 – MC08 – Workzone Management: Municipal PWD



LEGEND
planned and future flow
existing flow
user defined flow

Figure A74 – MC09 – Workzone Safety Monitoring: City of San Angelo PWD







# Figure A75 – MC09 – Workzone Safety Monitoring: TxDOT San Angelo District Maintenance Sections

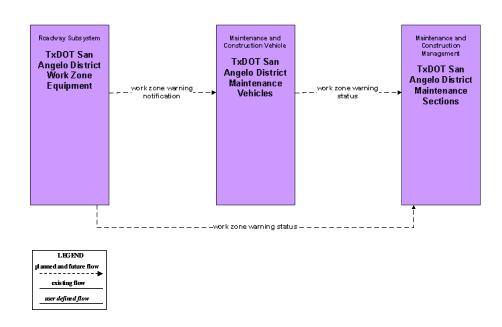


Figure A76 – MC09 – Workzone Safety Monitoring: County Road and Bridge

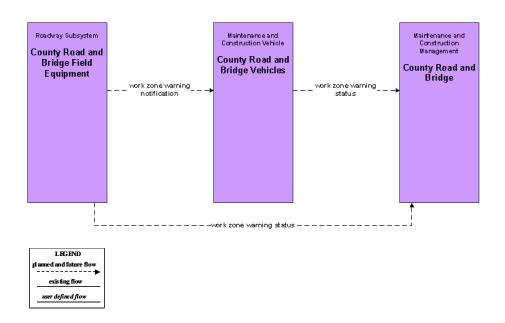






Figure A77 – MC09 – Workzone Safety Monitoring: Municipal PWD

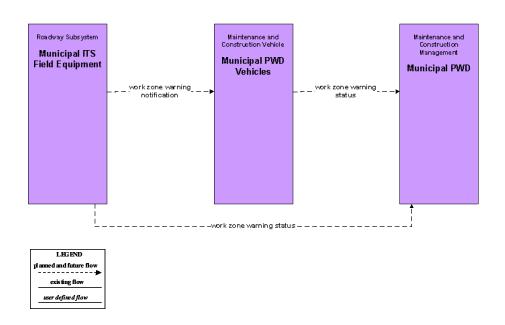


Figure A78 – MC10 – Maintenance and Construction Activity Coordination: Activity Coordination – TxDOT (1 of 3)

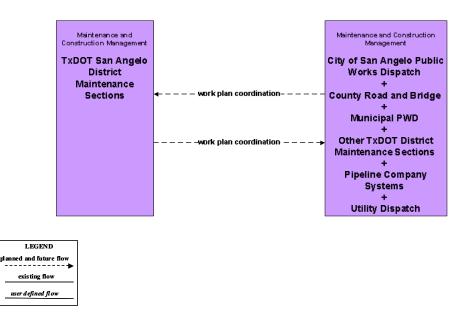






Figure A79 – MC10 – Maintenance and Construction Activity Coordination:
Activity Coordination – TxDOT (2 of 3)

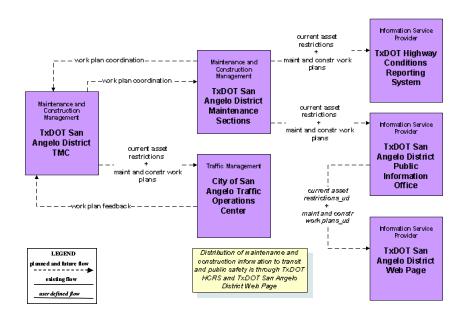


Figure A80 – MC10 – Maintenance and Construction Activity Coordination:
Activity Coordination – TxDOT (3 of 3)

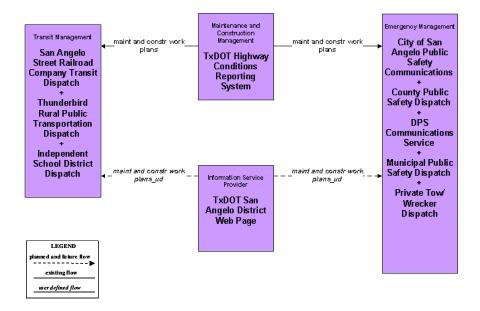






Figure A81 – MC10 – Maintenance and Construction Activity Coordination: County Road and Bridge (1 of 2)

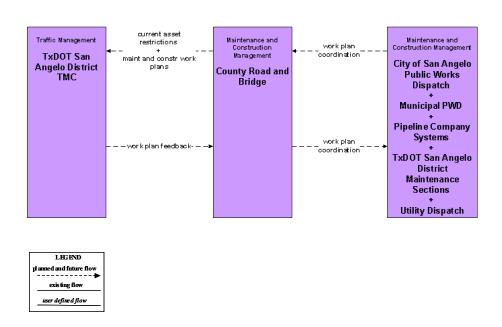


Figure A82 – MC10 – Maintenance and Construction Activity Coordination: County Road and Bridge (2 of 2)

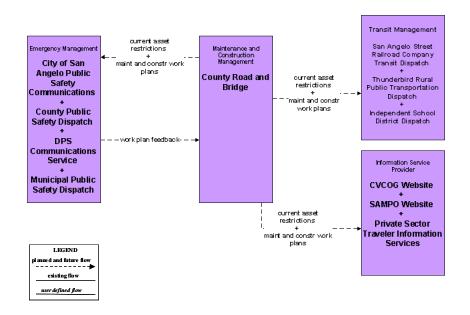






Figure A83 – MC10 – Maintenance and Construction Activity Coordination: City of San Angelo PWD

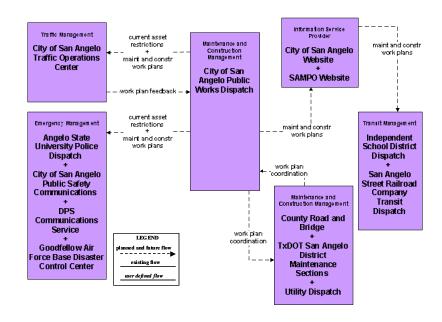


Figure A84 – MC10 – Maintenance and Construction Activity Coordination: Municipal PWD

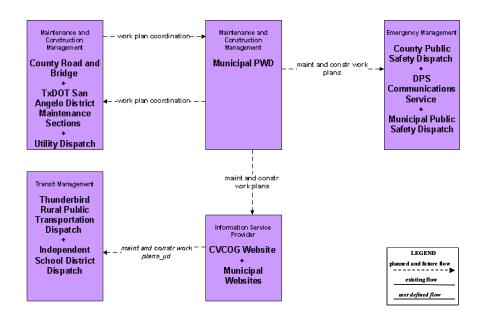






Figure A85 – APTS1 – Transit Vehicle Tracking: Thunderbird Transit

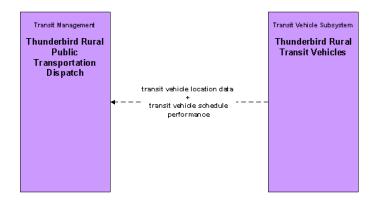




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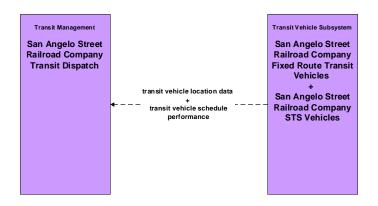








Figure A87 – APTS1 – Transit Vehicle Tracking: Independent School Districts

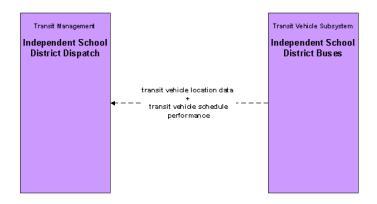




Figure A88 – APTS2 – Transit Fixed-Route Operations: San Angelo Street Railroad Company

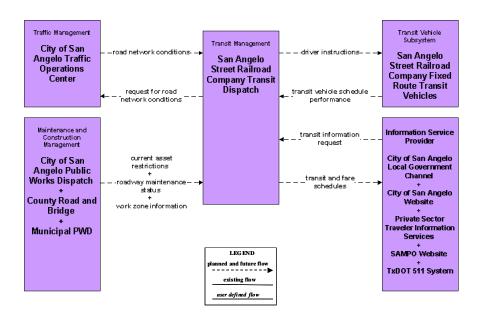






Figure A89 – APTS2 – Transit Fixed-Route Operations: Independent School Districts

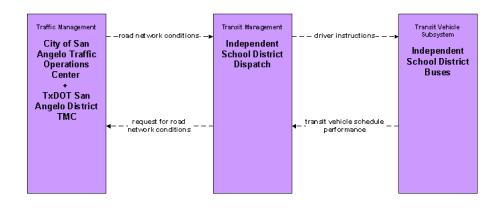
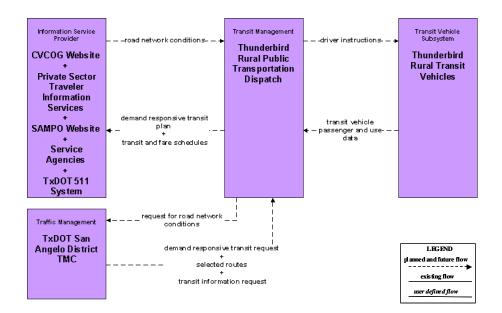




Figure A90 – APTS3 – Demand Response Operations: Thunderbird Transit







## Figure A91 – APTS3 – Paratransit Operations: San Angelo Street Railroad Company Paratransit

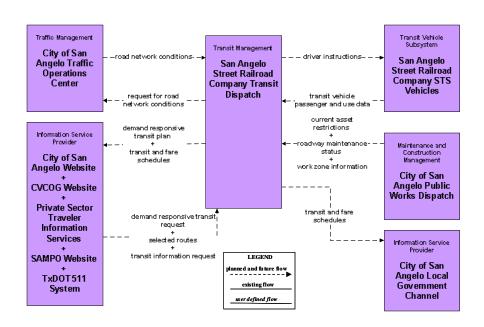


Figure A92 – APTS4 – Transit Passenger and Fare Payment: San Angelo Street Railroad Company

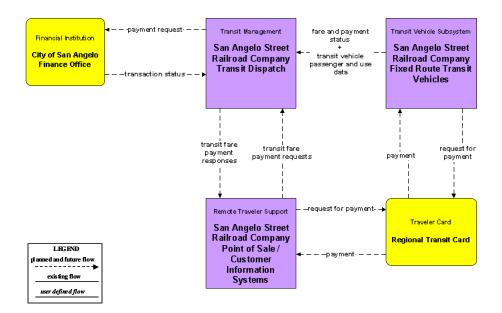






Figure A93 – APTS4 – Transit Passenger and Fare Payment: Thunderbird Transit

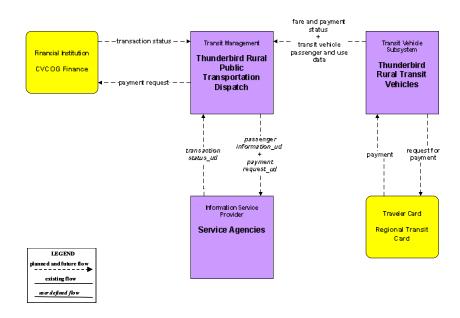
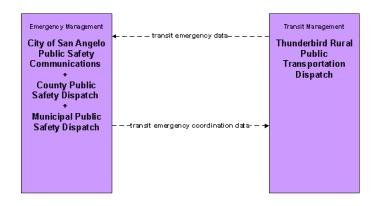


Figure A94 – APTS5 – Transit Security: Thunderbird Transit

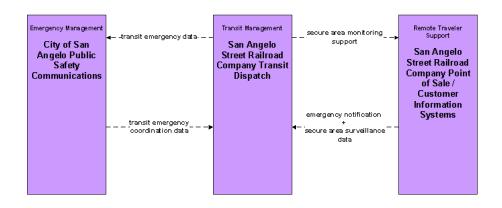






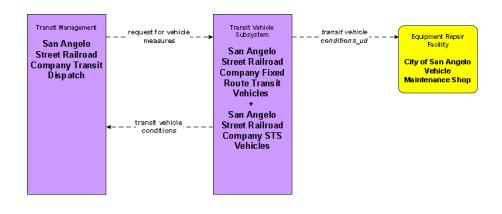


#### Figure A95 – APTS5 – Transit Security: San Angelo Street Railroad Company



LEGEND
pl anned and future flow
existing flow
user defined flow

Figure A96 – APTS6 – Transit Vehicle Maintenance: San Angelo Street Railroad Company



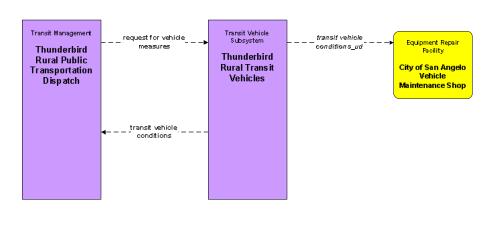
LEGEND
planned and future flow
----exis fing flow

user defined flow



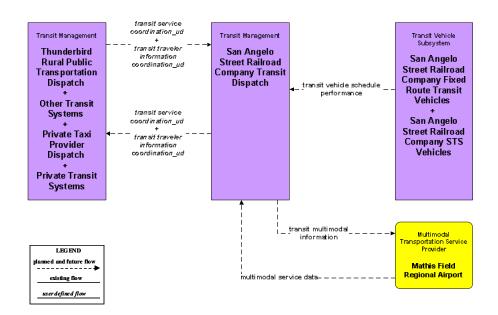


Figure A97 – APTS6 – Transit Vehicle Maintenance: Thunderbird Transit



LEGEND
planned and future flow
existing flow
user defined flow

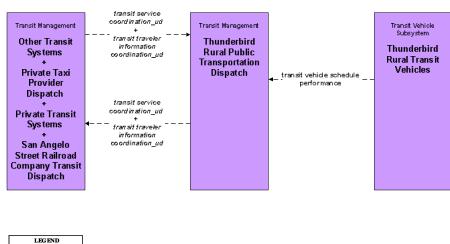
Figure A98 – APTS7 – Multimodal Coordination: San Angelo Street Railroad Company





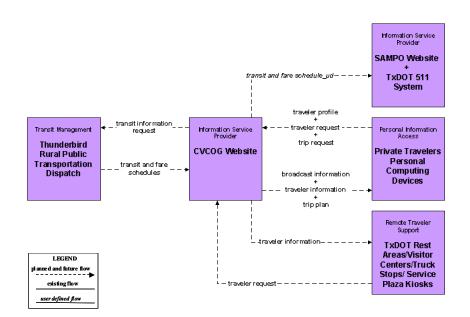


#### Figure A99 – APTS7 – Multimodal Coordination: Thunderbird Transit



LEGEND
planned and future flow
existing flow
user defined flow

Figure A100 – APTS8 – Transit Traveler Information: Thunderbird







## Figure A101 – APTS8 – Transit Traveler Information: San Angelo Street Railroad Company

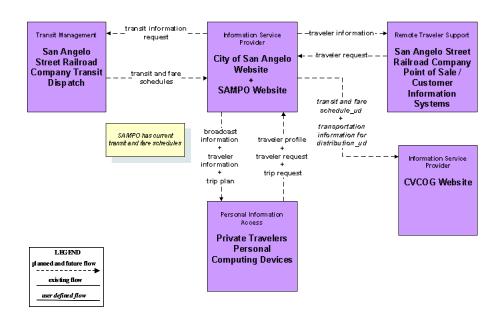
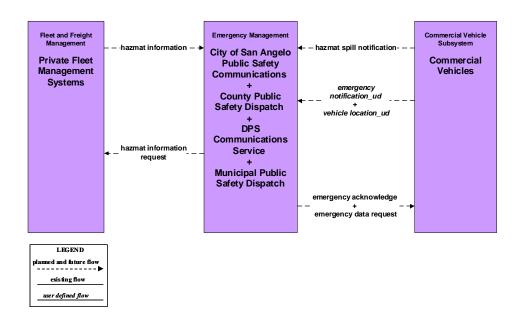


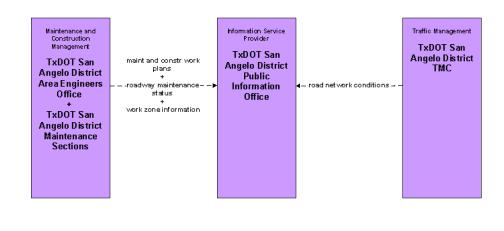
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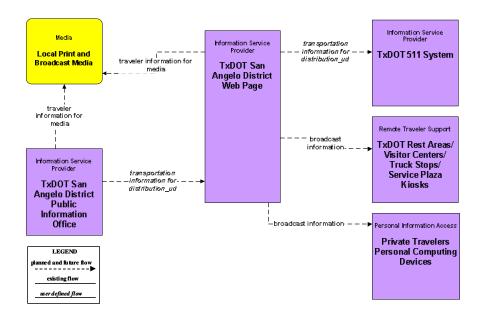


## Figure A103 – ATIS1 – Broadcast Traveler Information: TxDOT San Angelo District Web Page (Inputs)



LEGEND
pl anned and future flow
exis fing flow
user defined flow

Figure A104 – ATIS1 – Broadcast Traveler Information: TxDOT San Angelo District Web Page (Outputs)







#### Figure A105 – ATIS1 – Broadcast Traveler Information: City of San Angelo Website

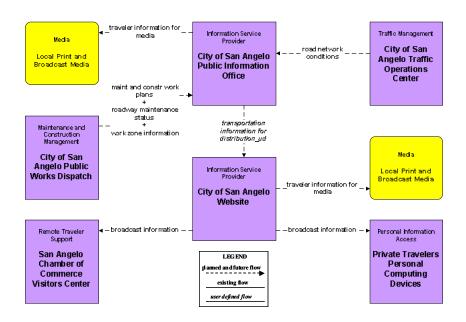
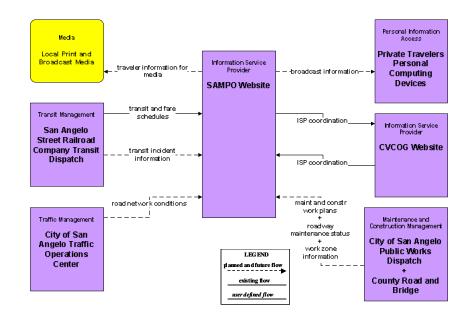


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# Figure A107 – ATIS5 – ISP Based Route Guidance: TxDOT Motor Carrier Routing Information

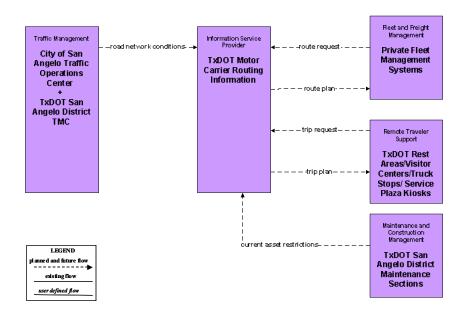
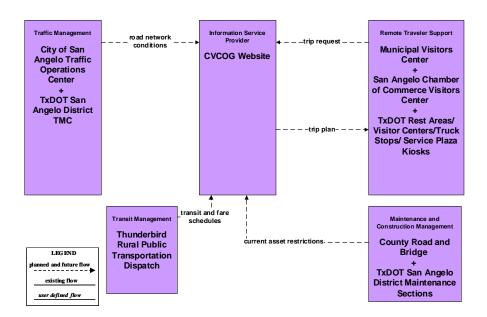


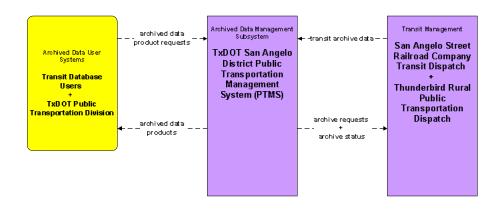
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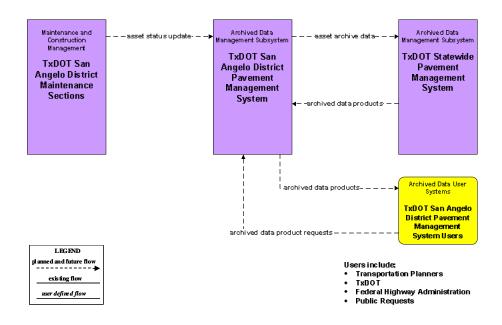


#### Figure A109 – AD1 – ITS Data Mart: TxDOT San Angelo District



LEGEND
planned and future flow
existing flow
user defined flow

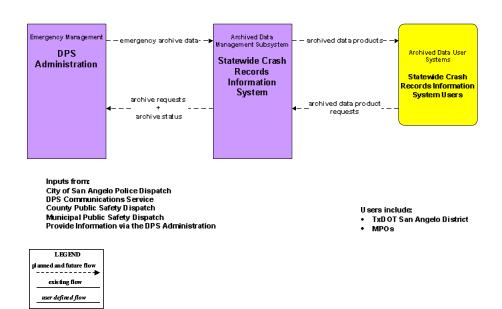
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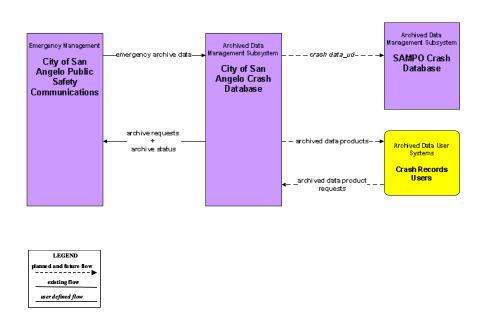




#### Figure A111 – AD1 – ITS Data Mart: Statewide Crash Records Information System



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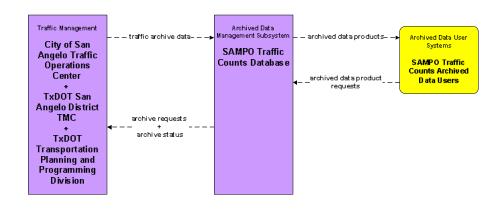
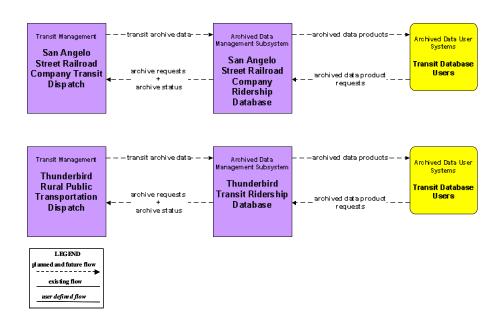




Figure A114 – AD1 – ITS Data Mart: Transit Databases







# Figure A115 – AD2 – ITS Data Warehouse: SAMPO (Inputs)

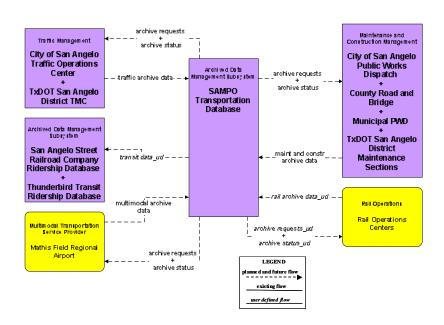
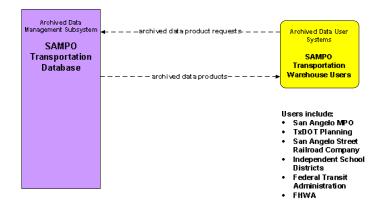


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## APPENDIX B – INTERFACE DIAGRAMS





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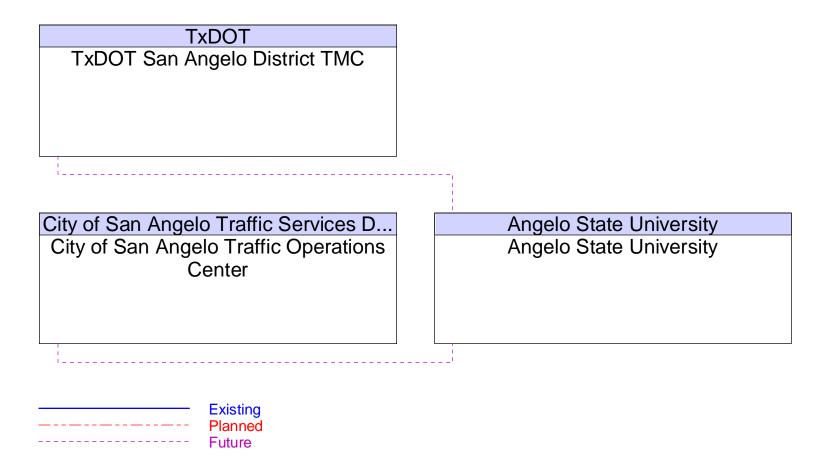






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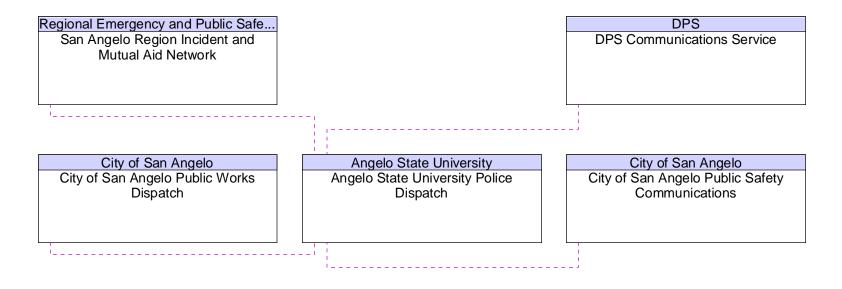






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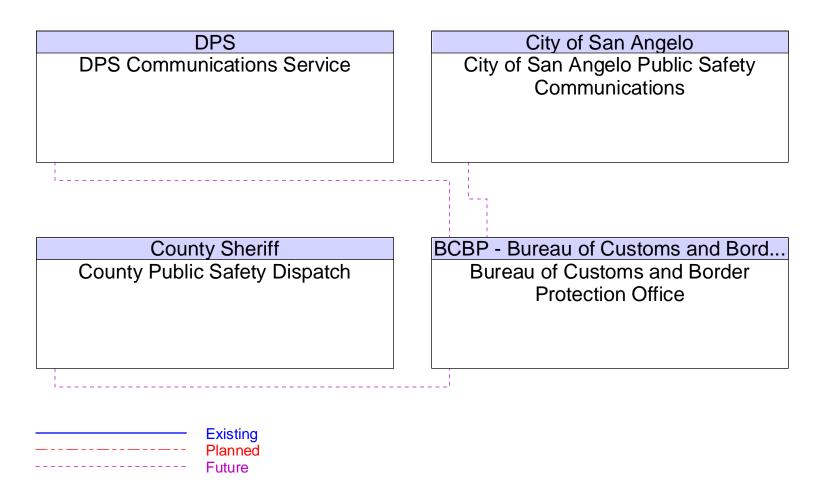






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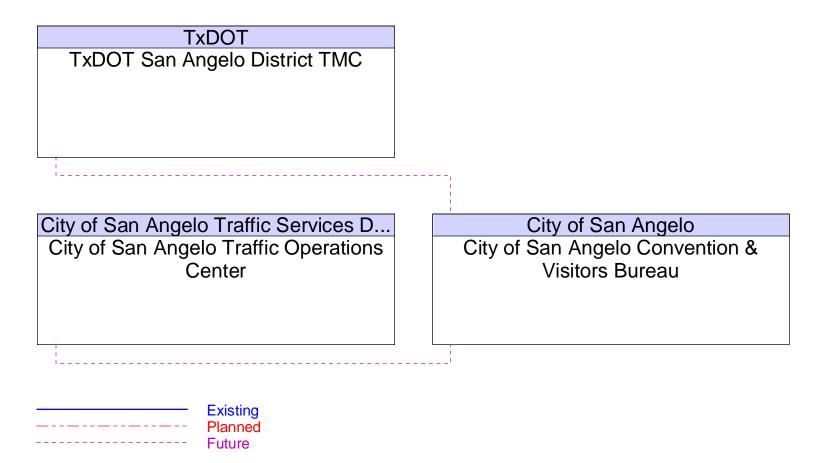






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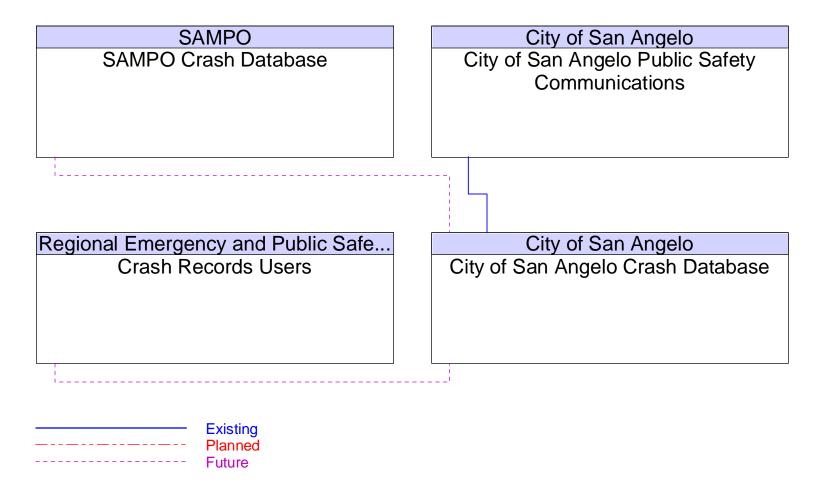






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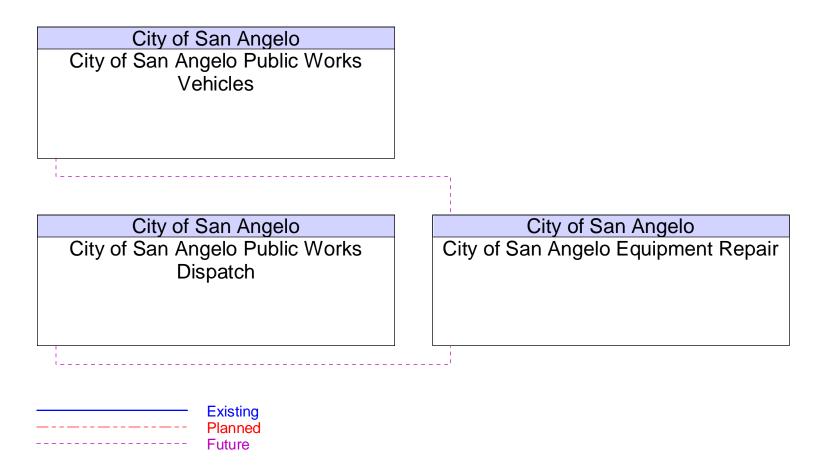
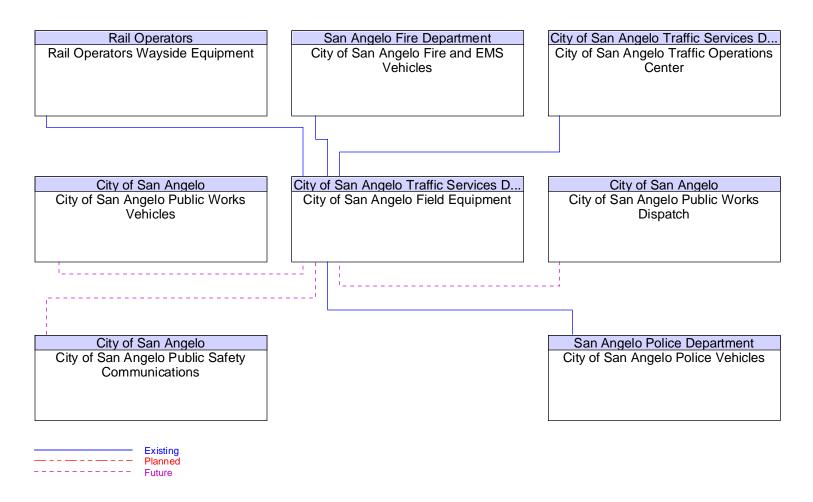






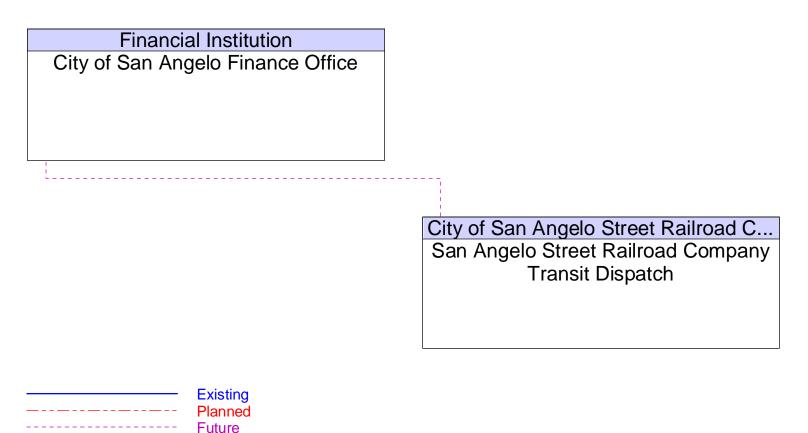
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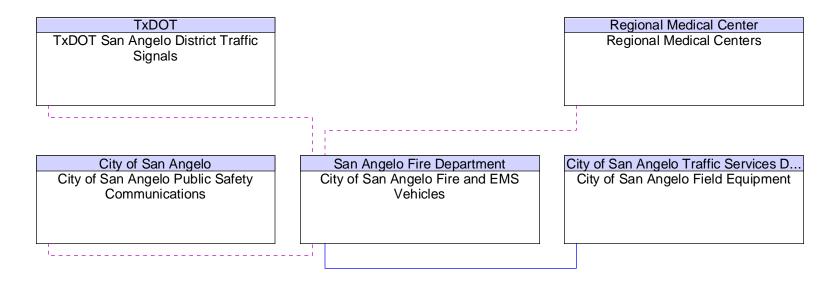
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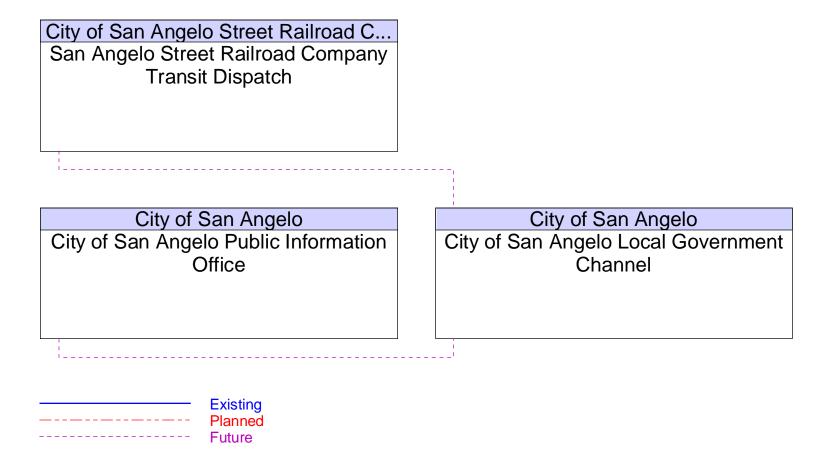






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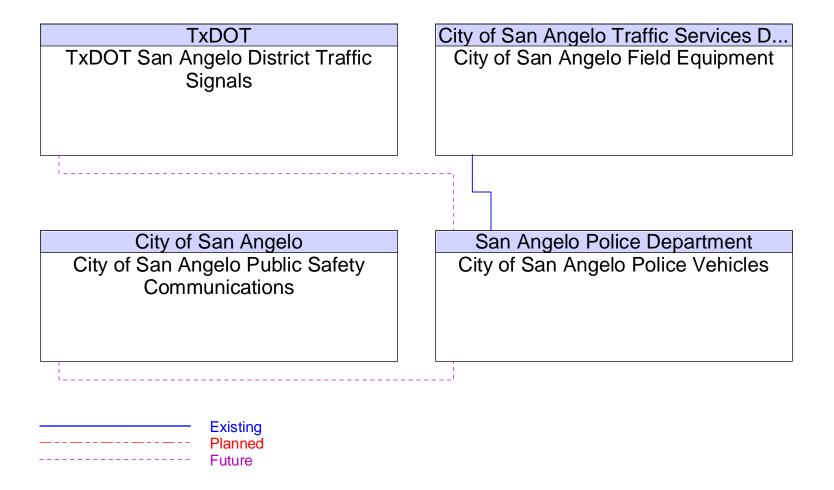






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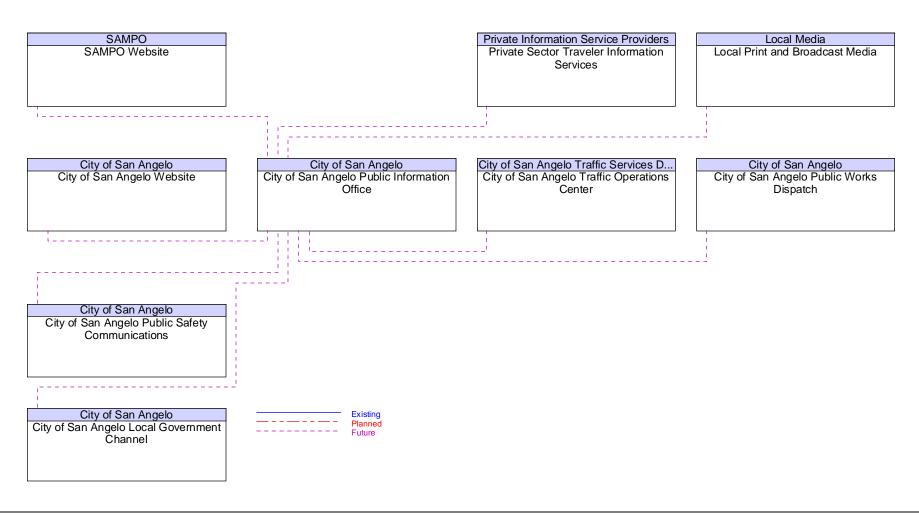
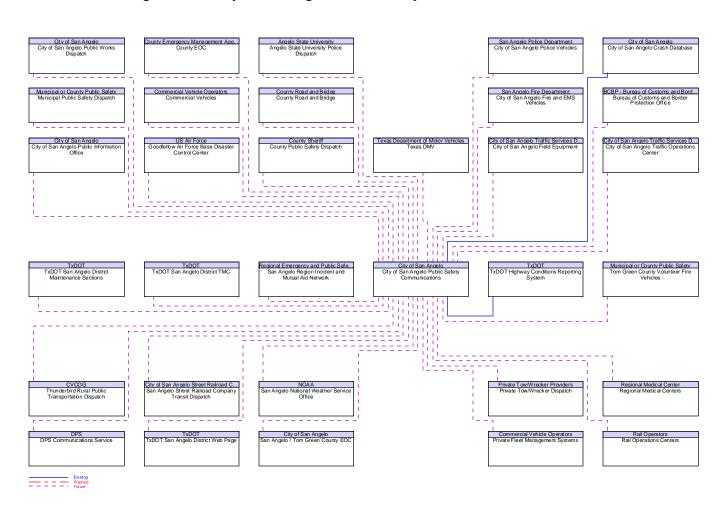






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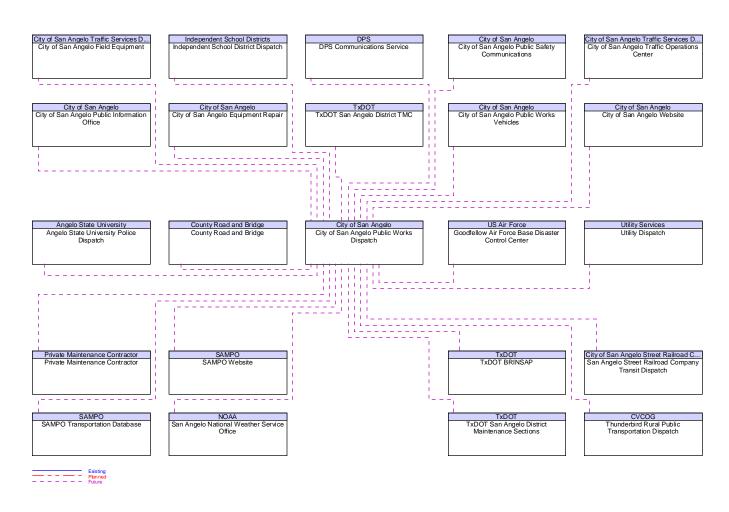
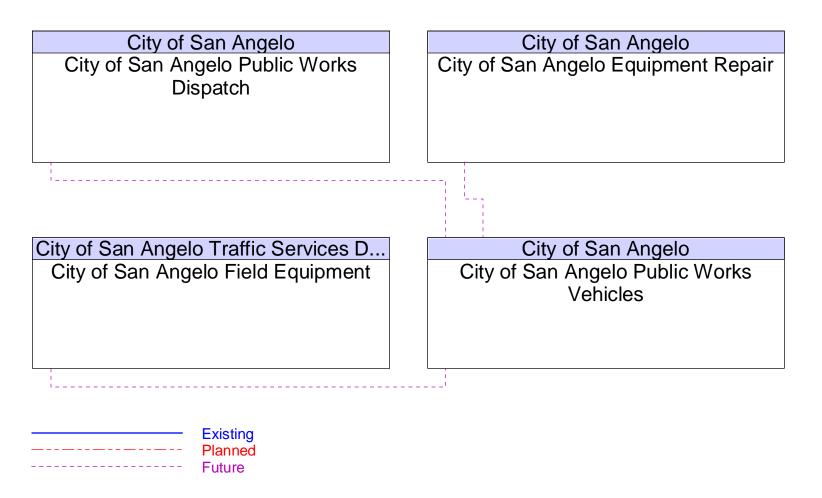






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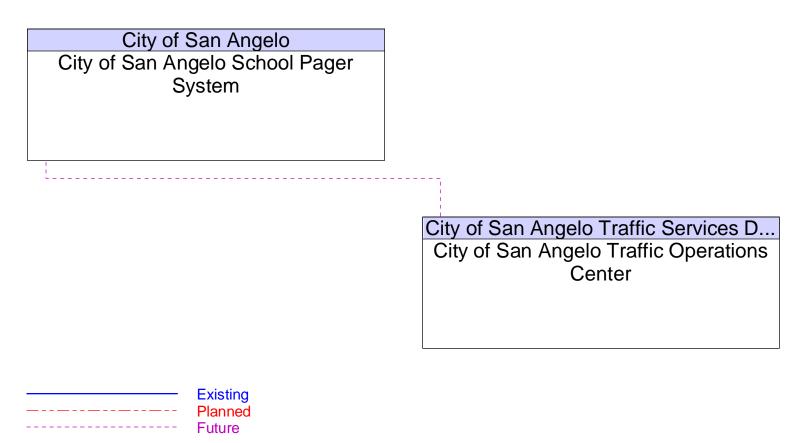






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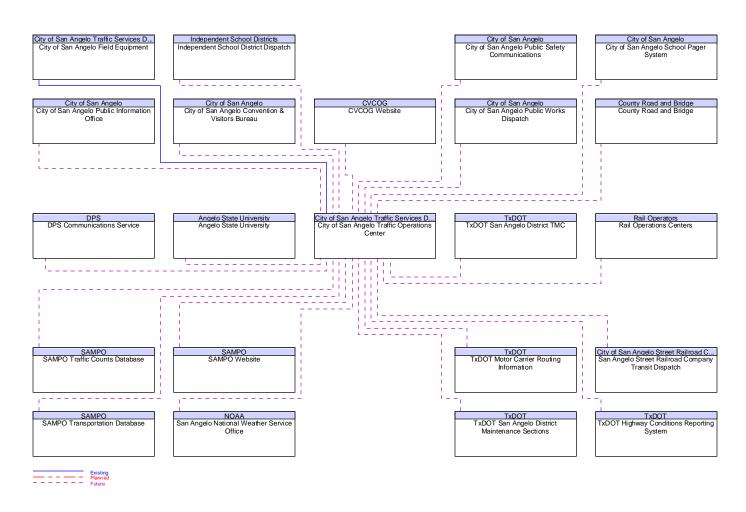
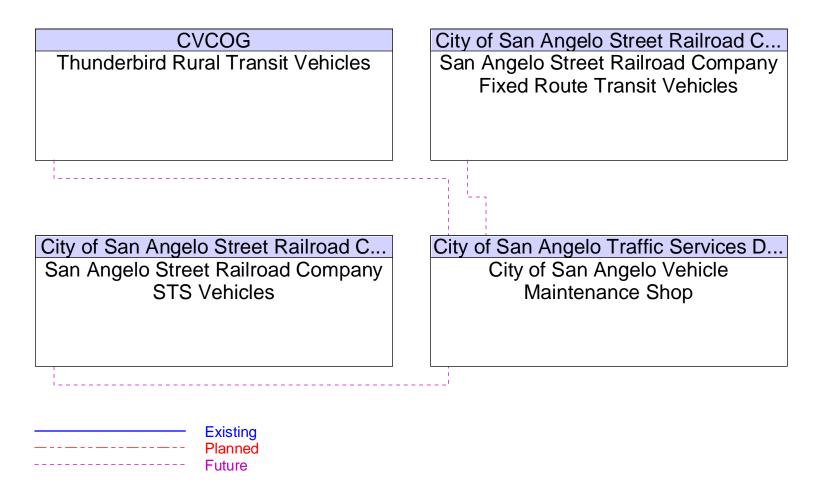






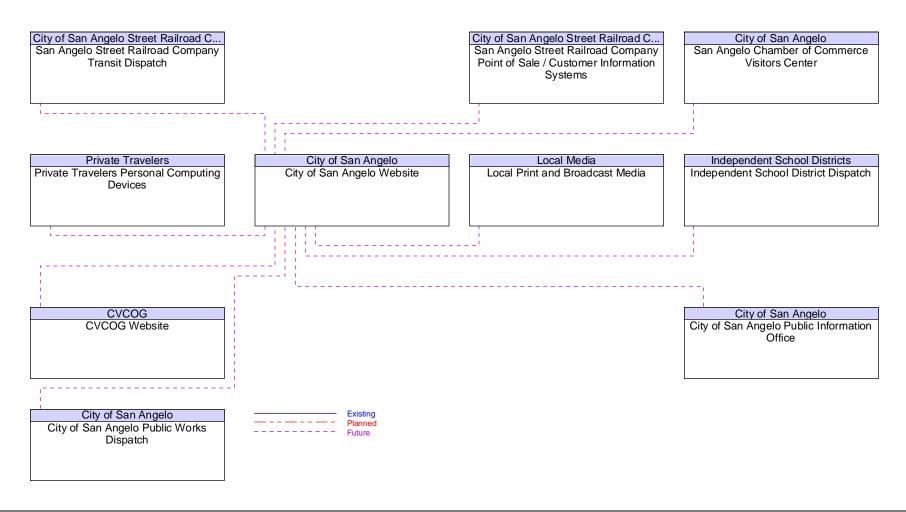
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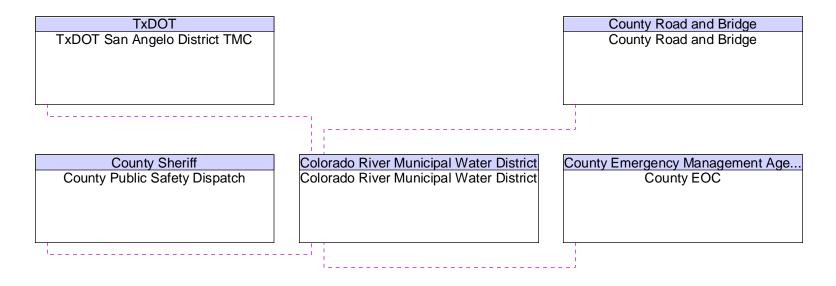
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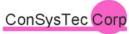


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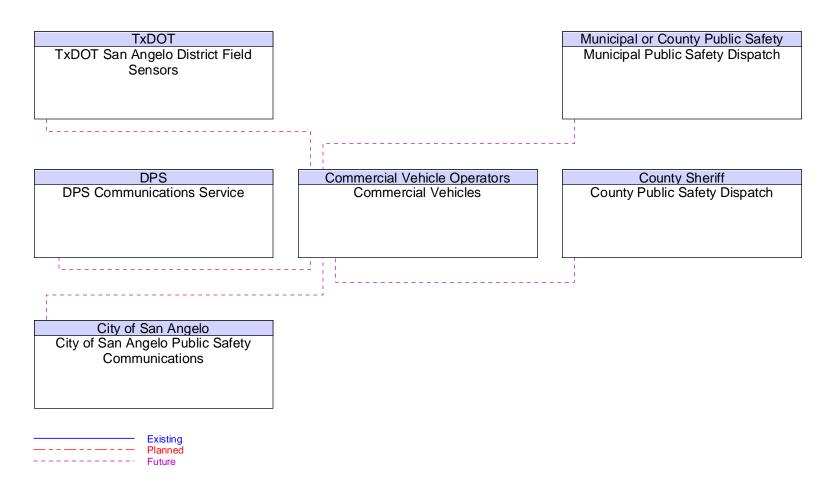






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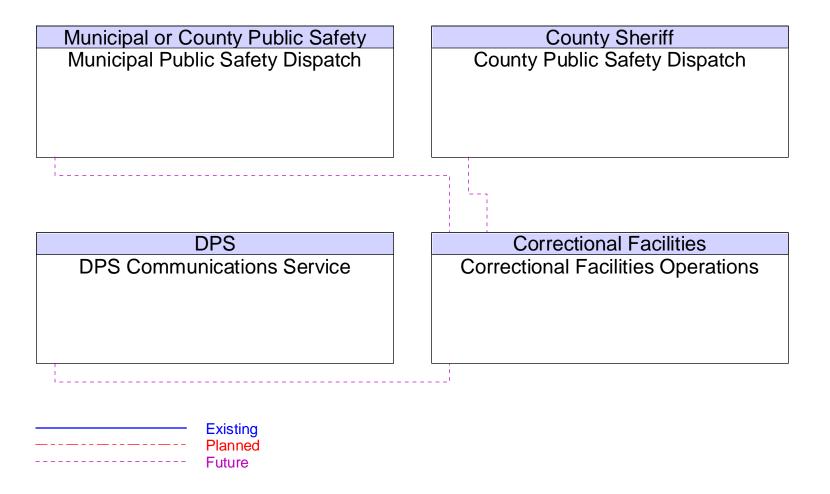
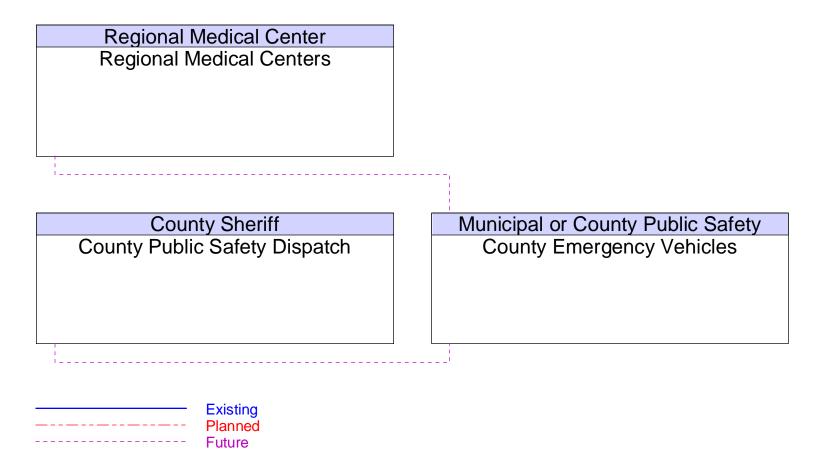






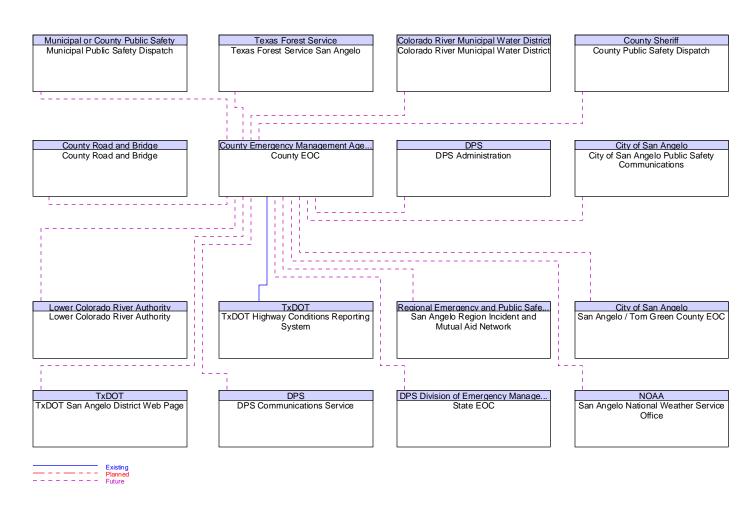
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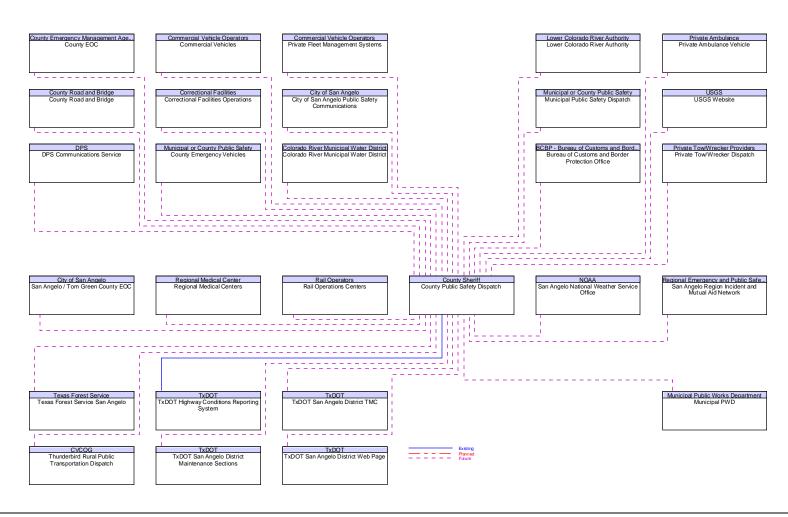








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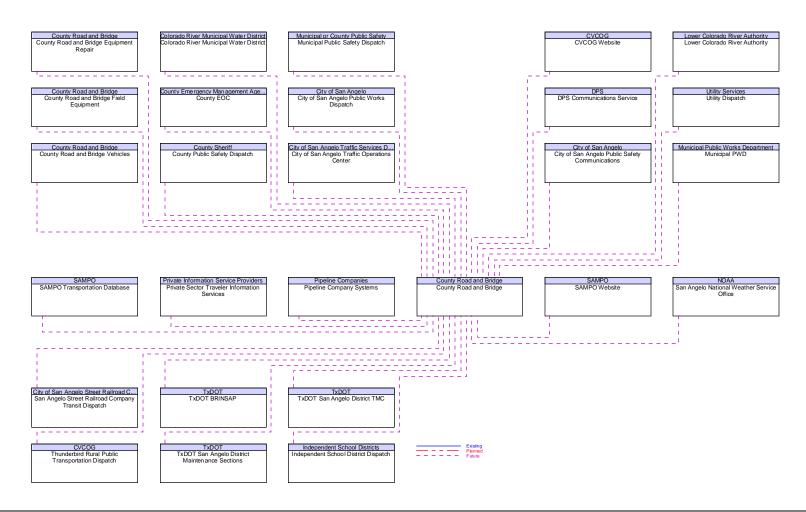
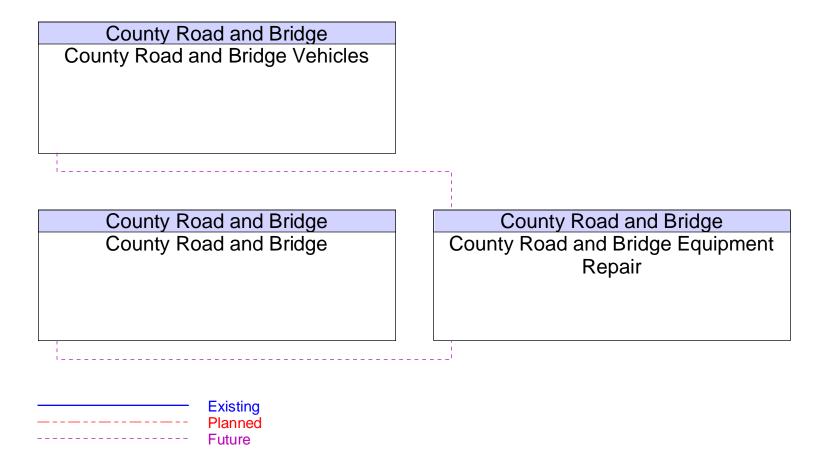






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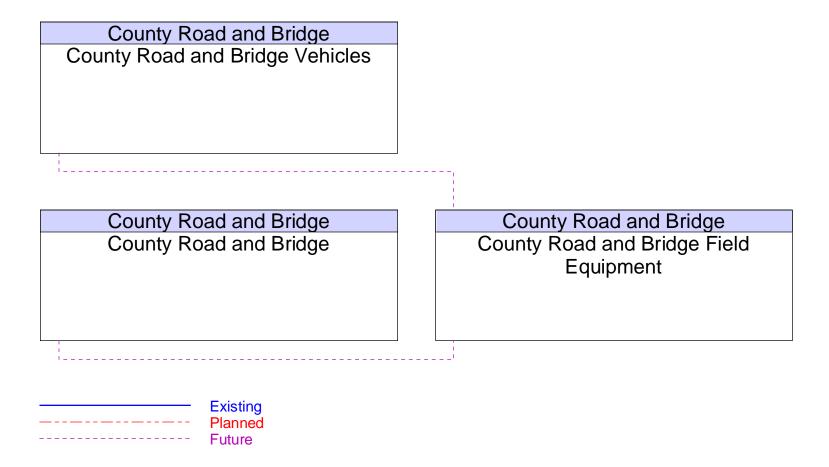
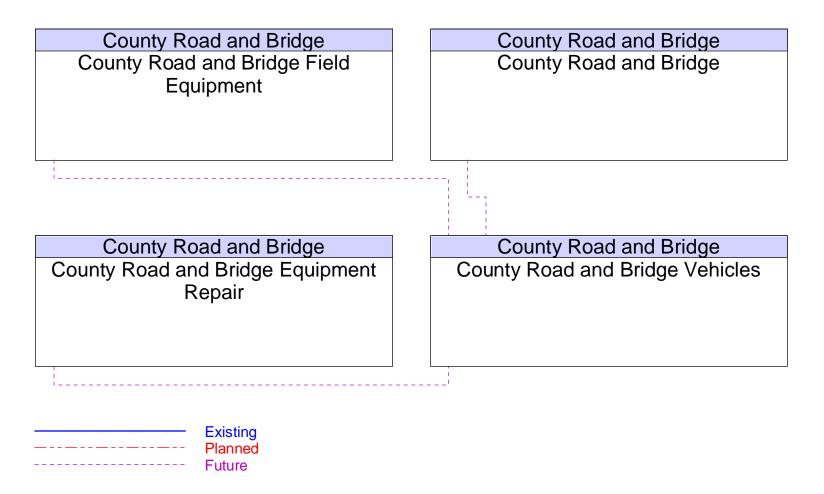






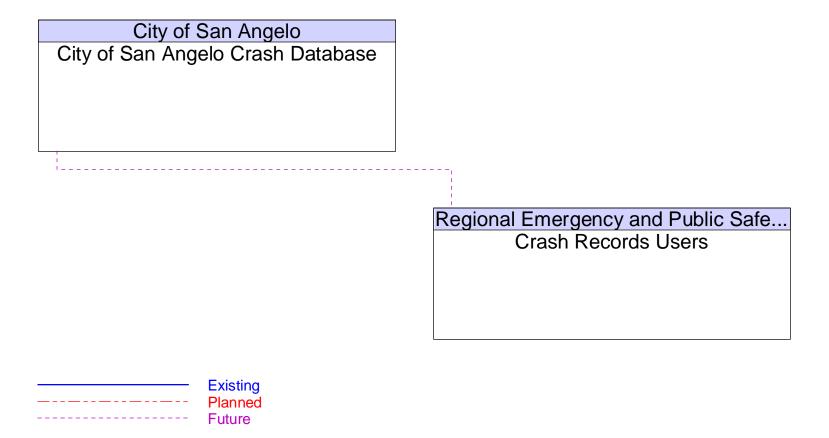
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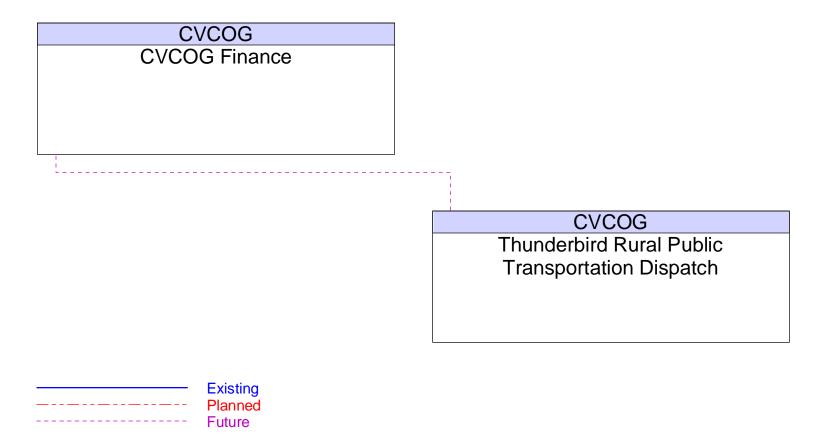








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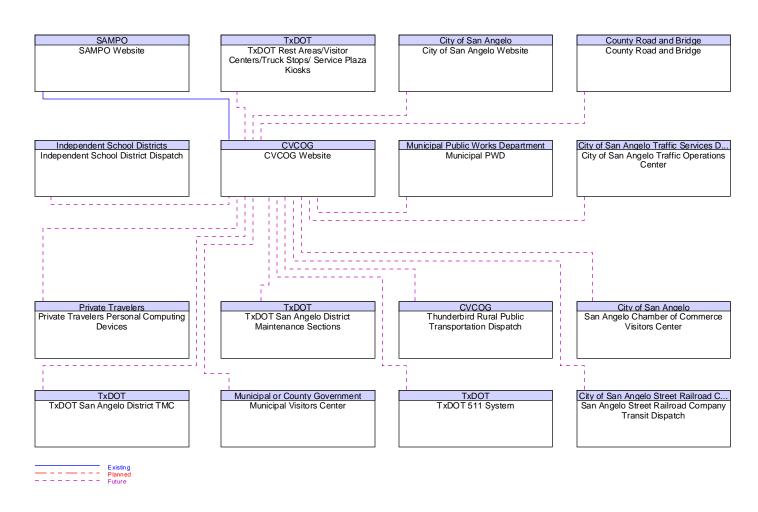






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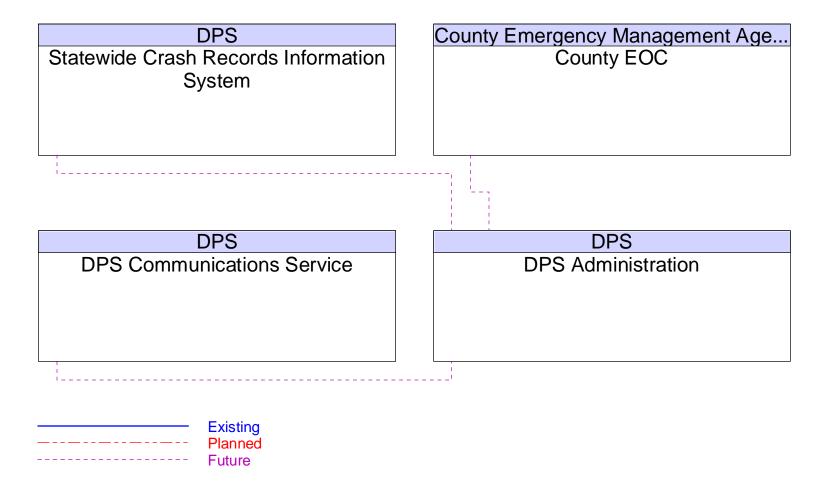
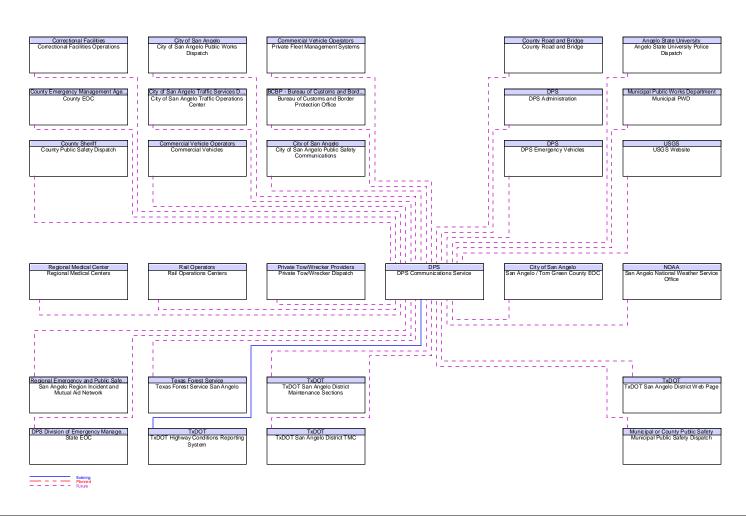








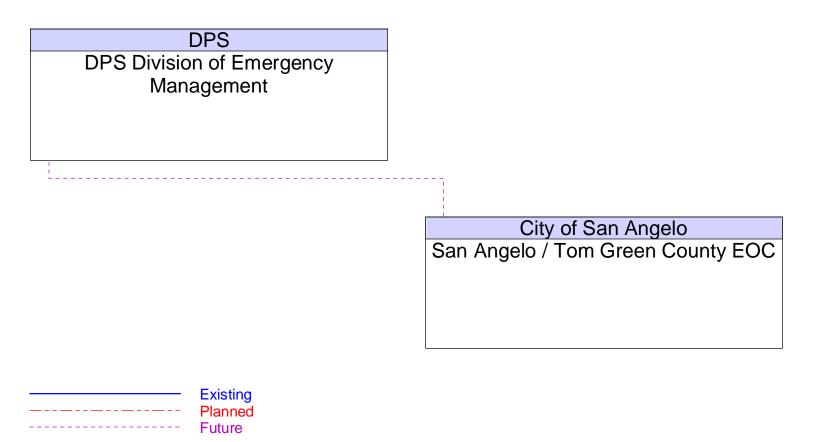
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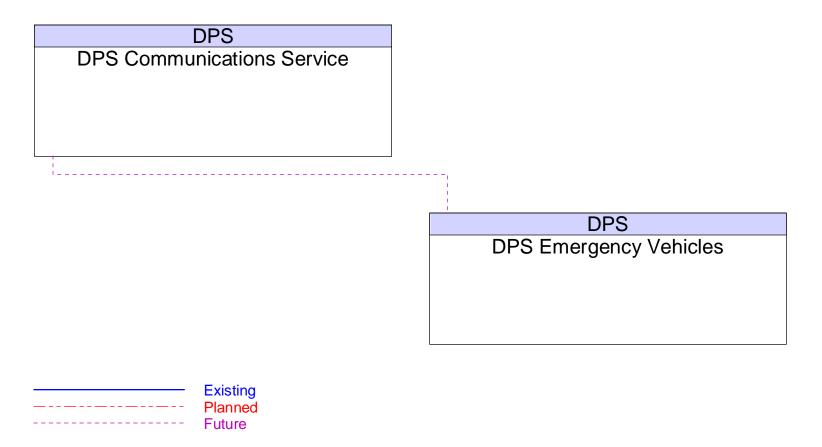
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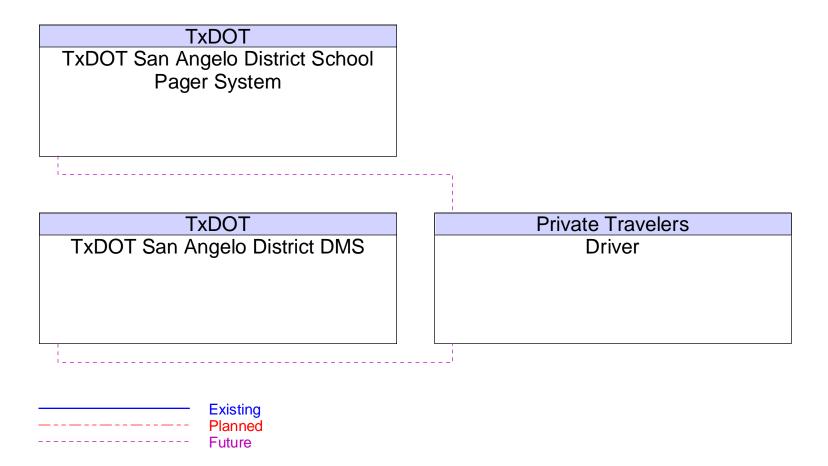
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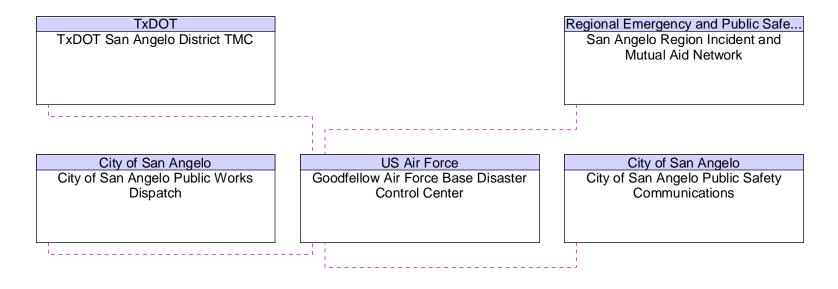
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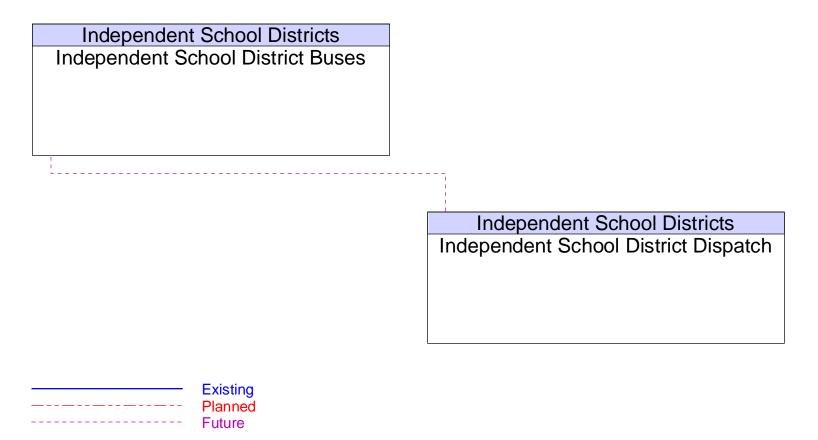
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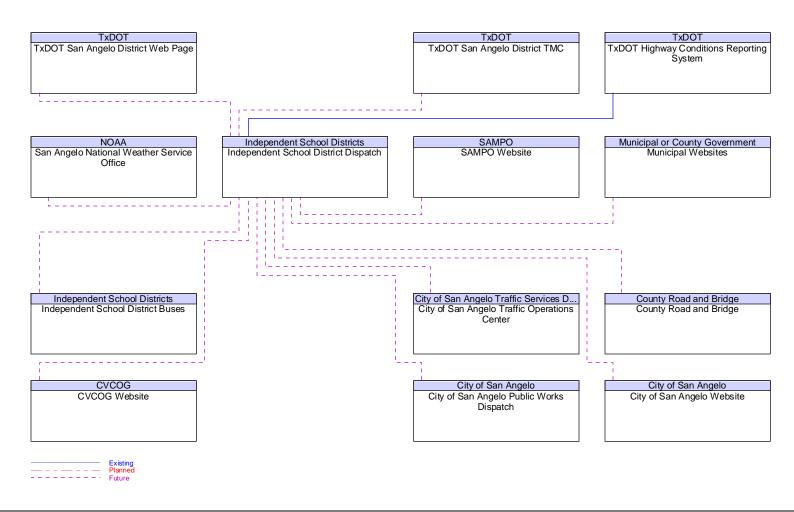
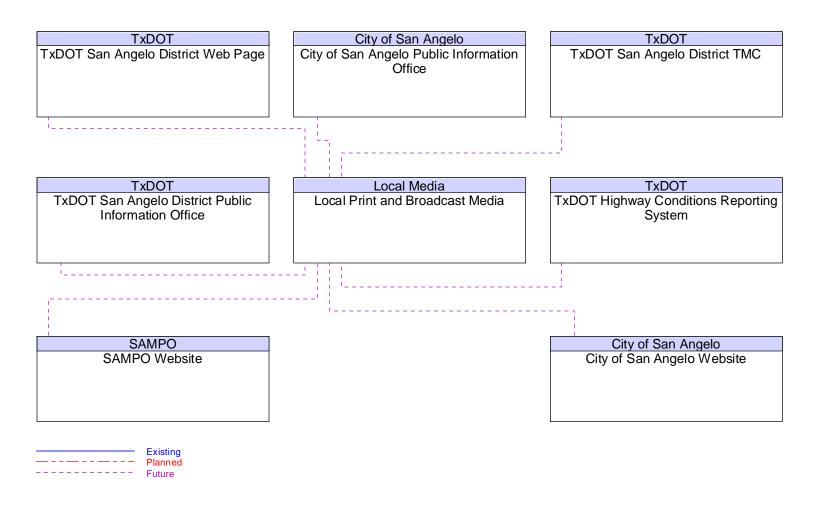






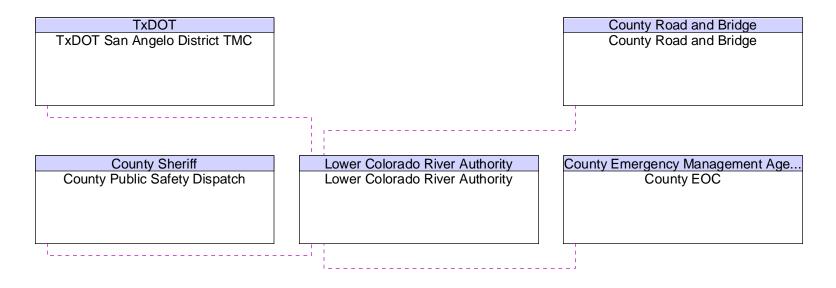
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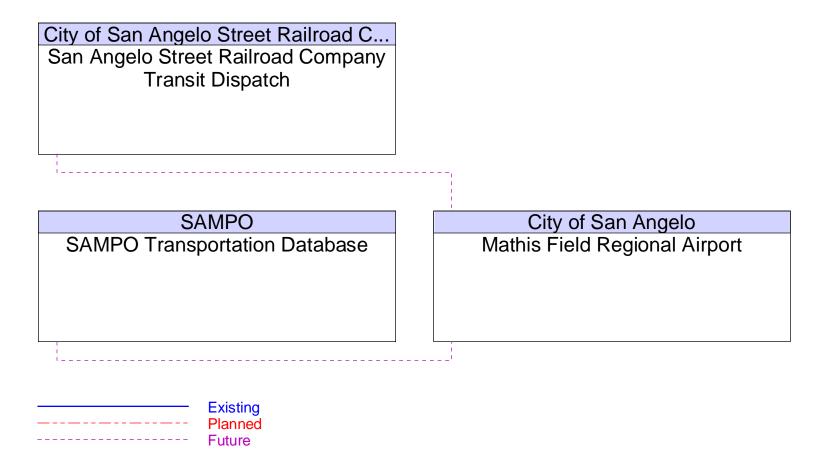






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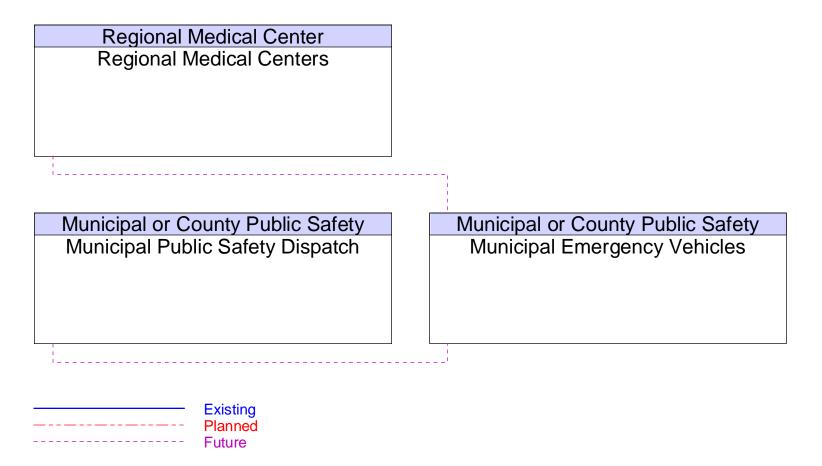






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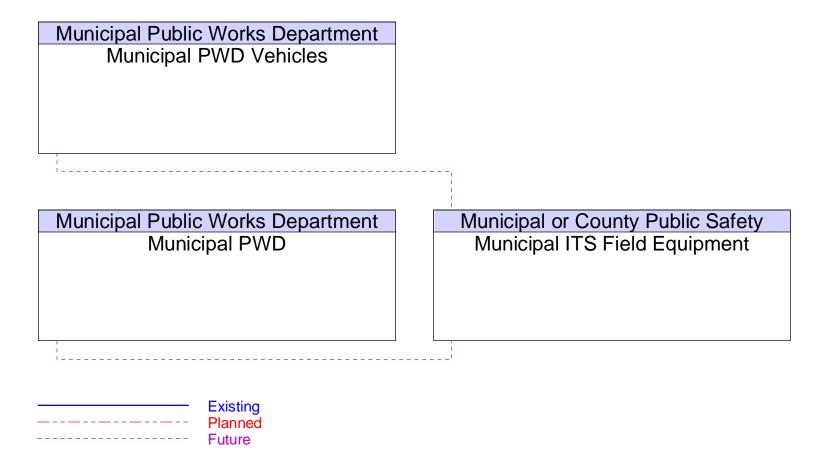
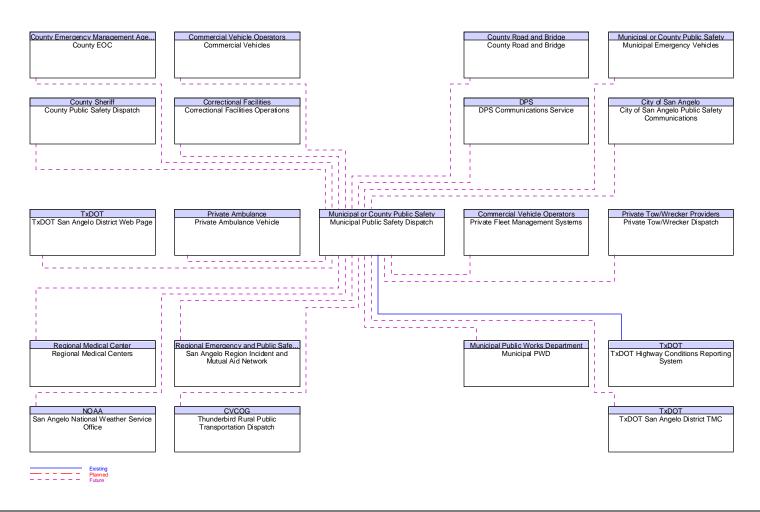






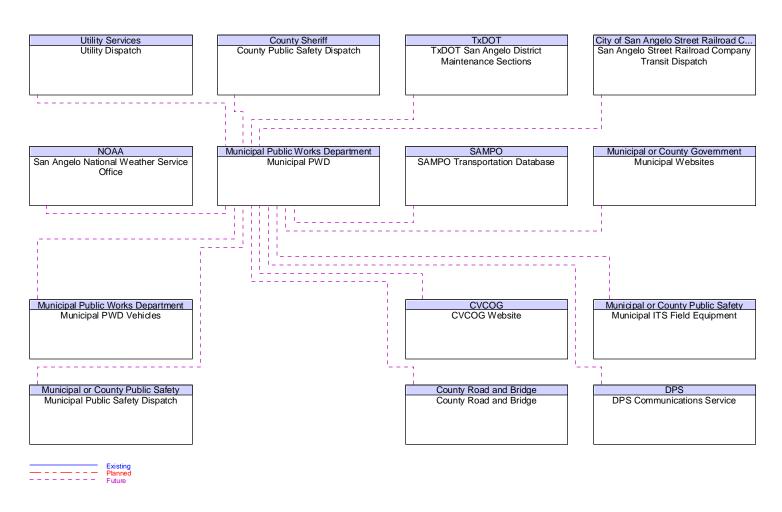
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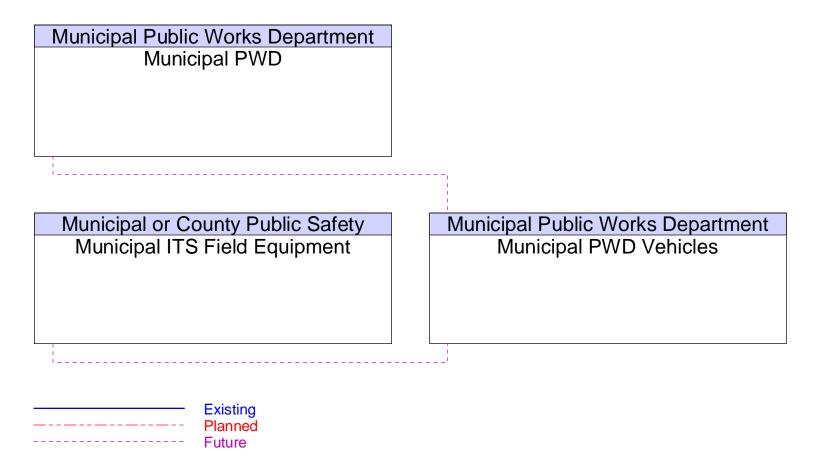
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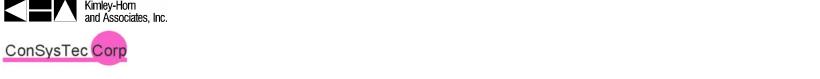




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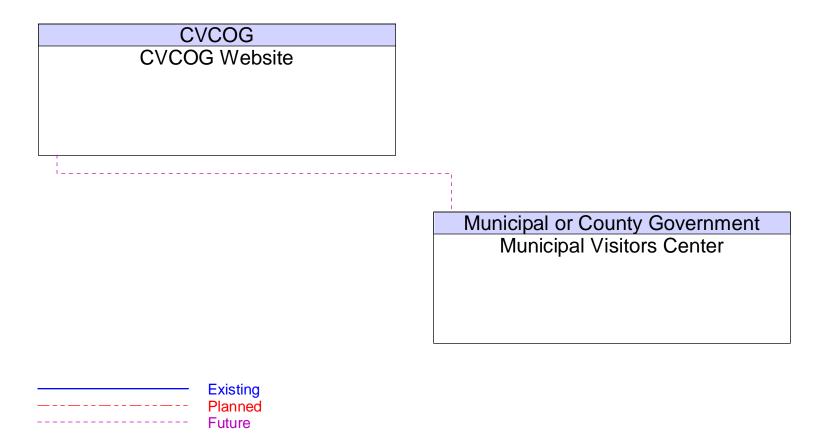






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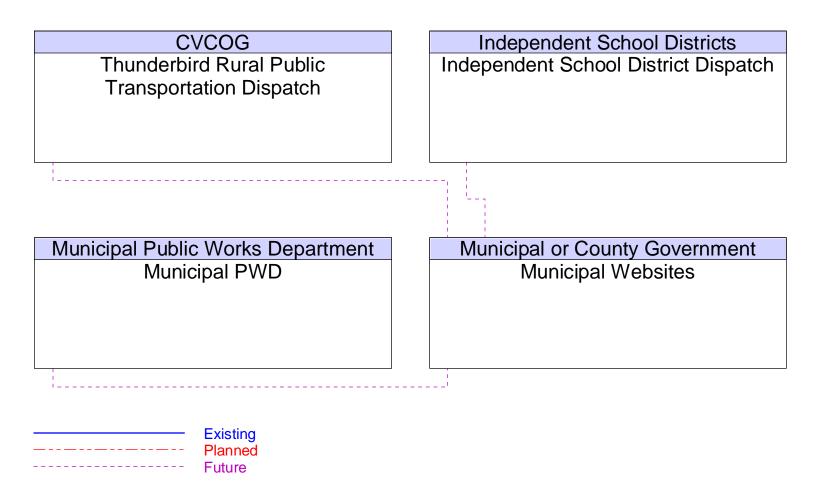
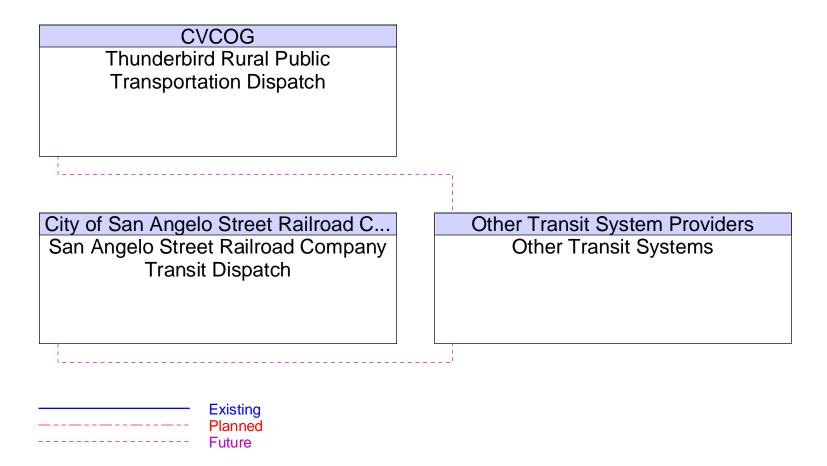






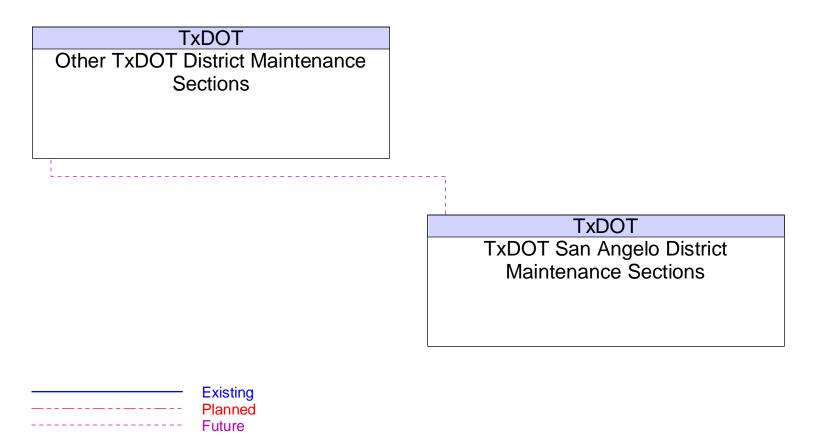
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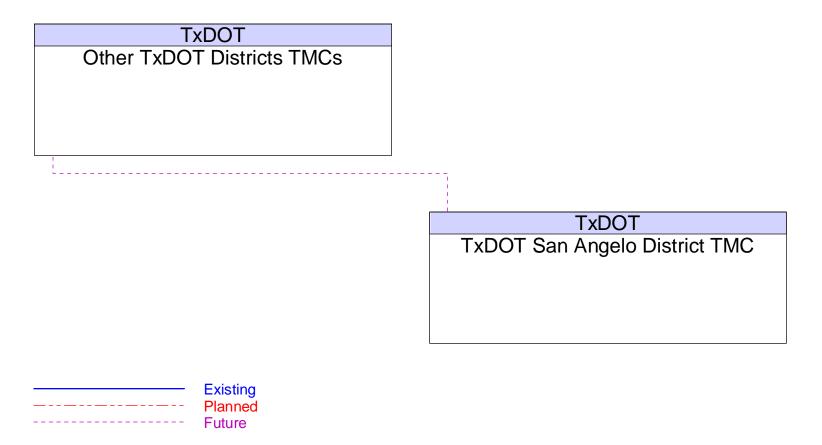






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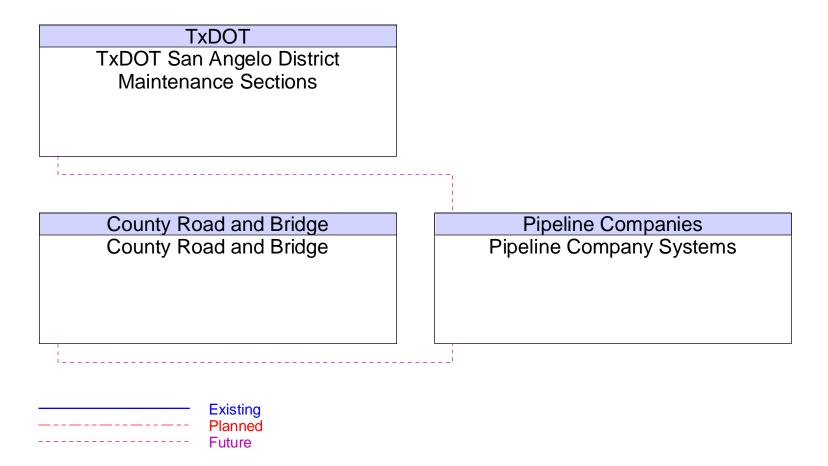
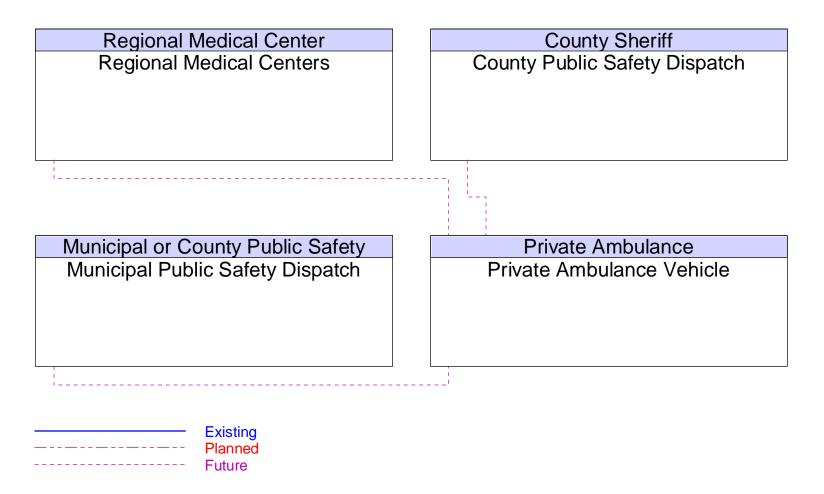






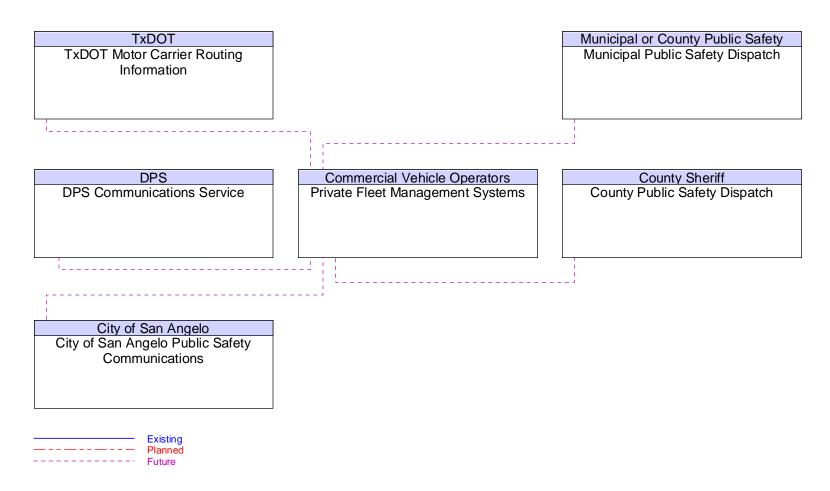
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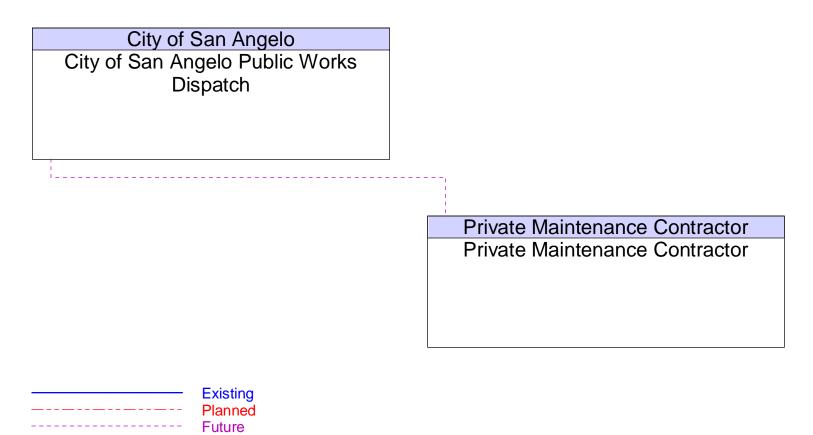
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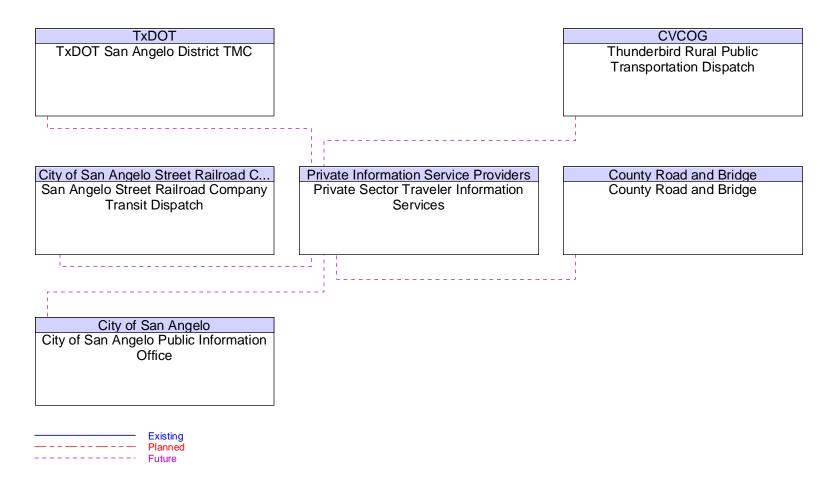
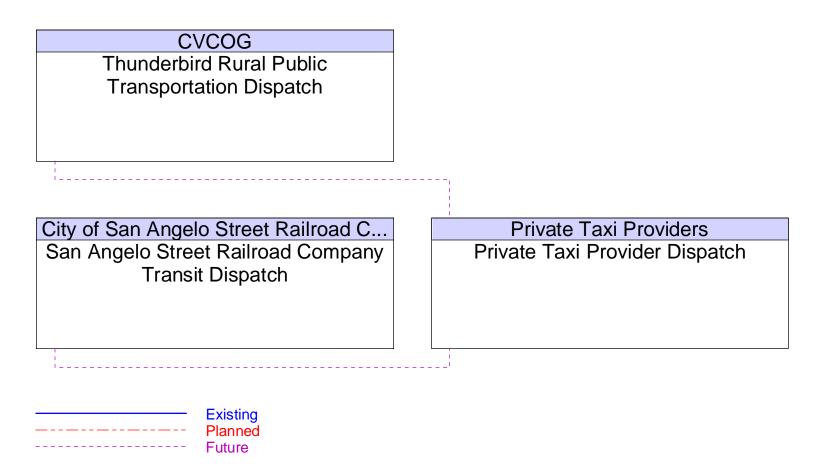






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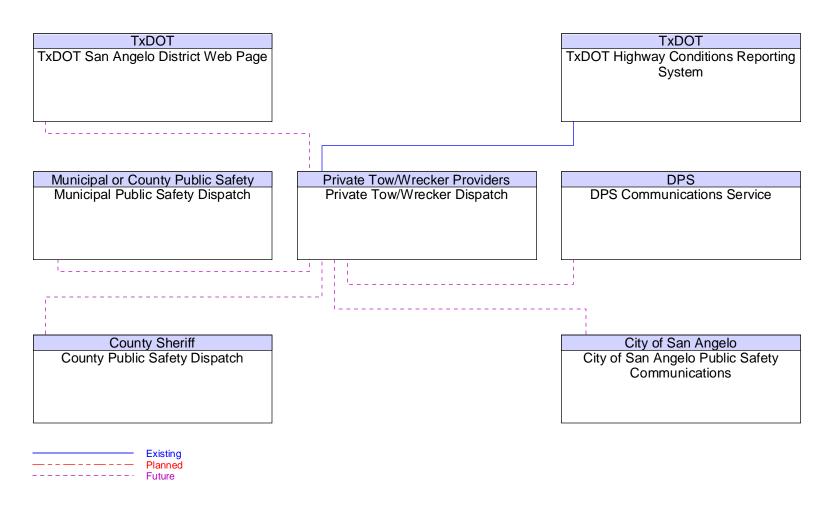
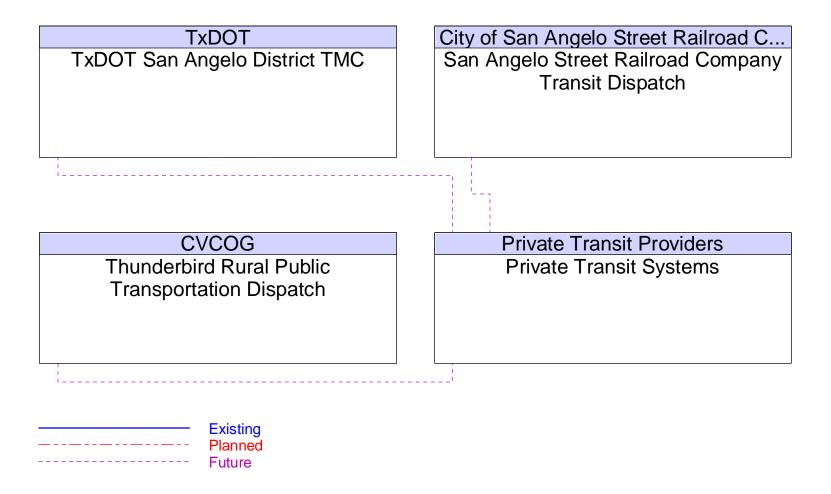






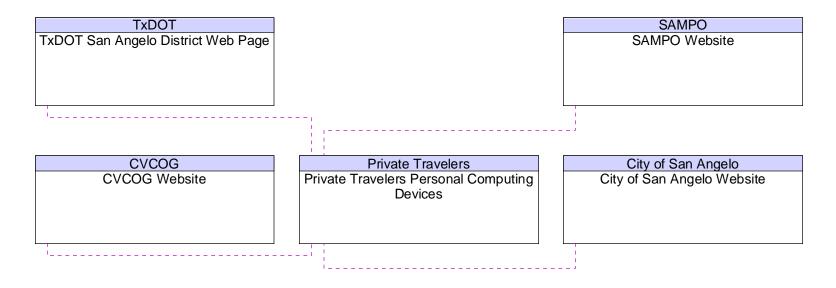
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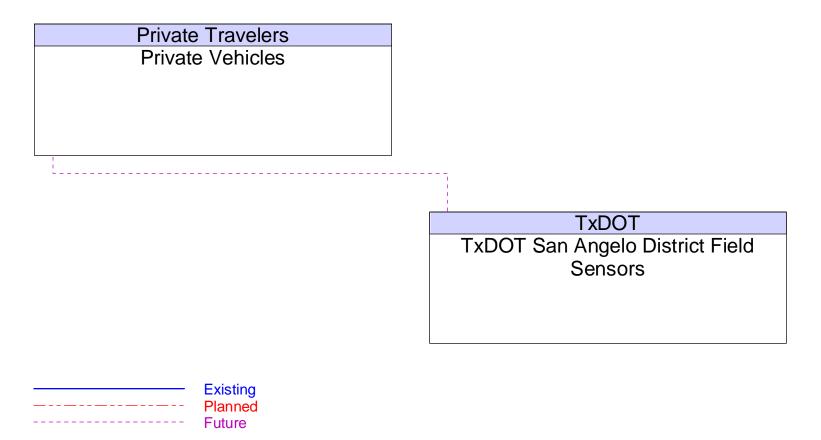
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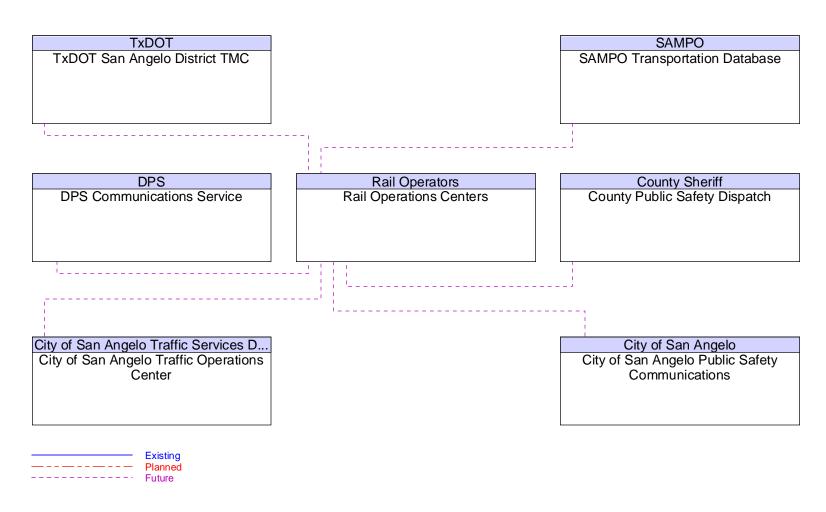
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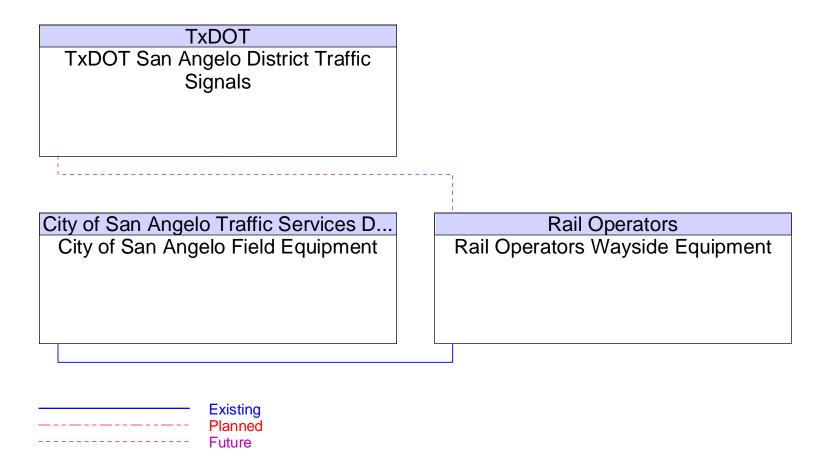
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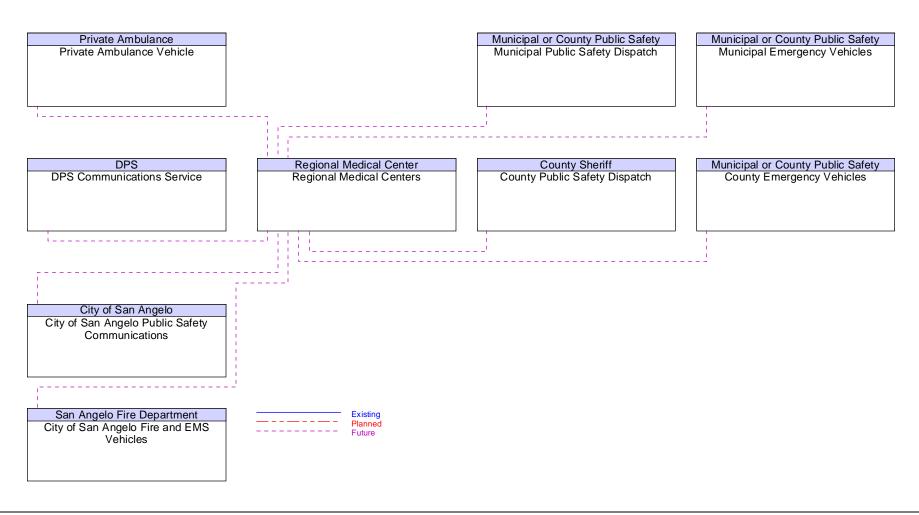
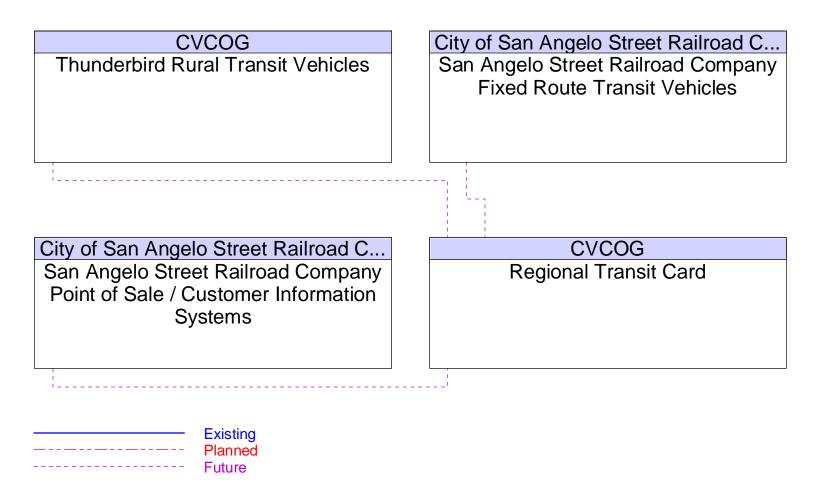






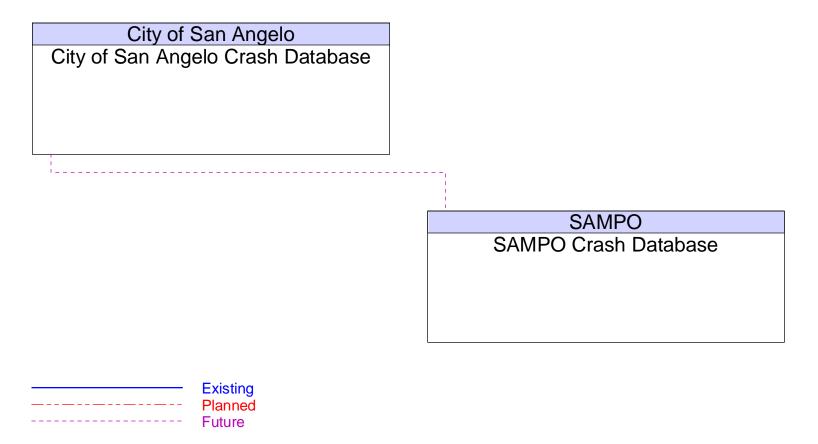
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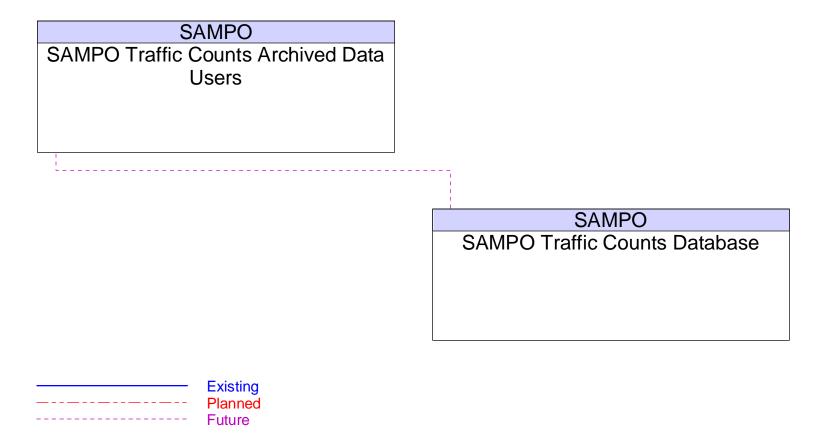
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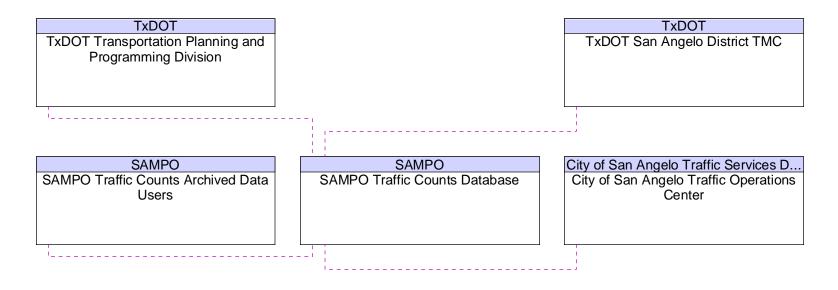
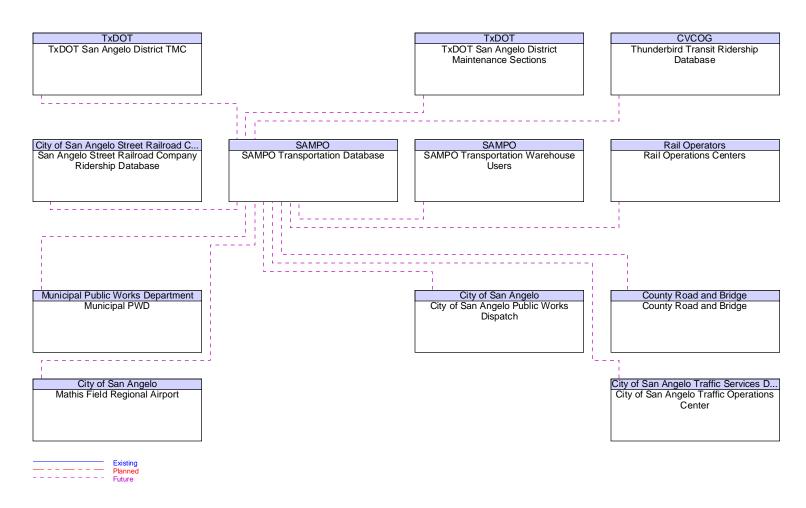






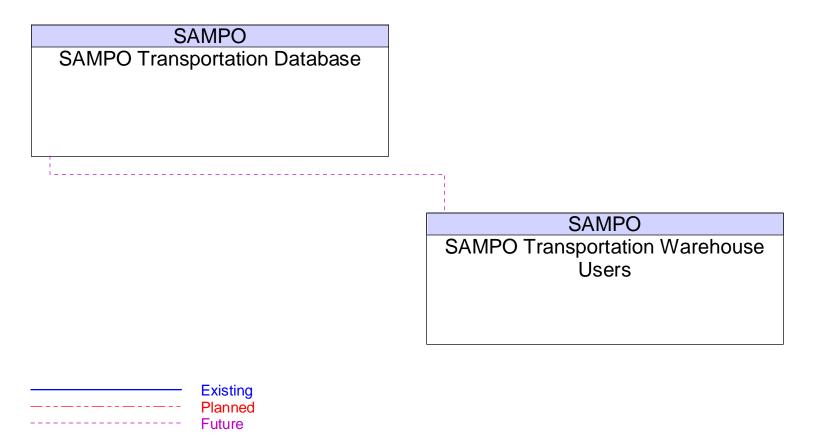
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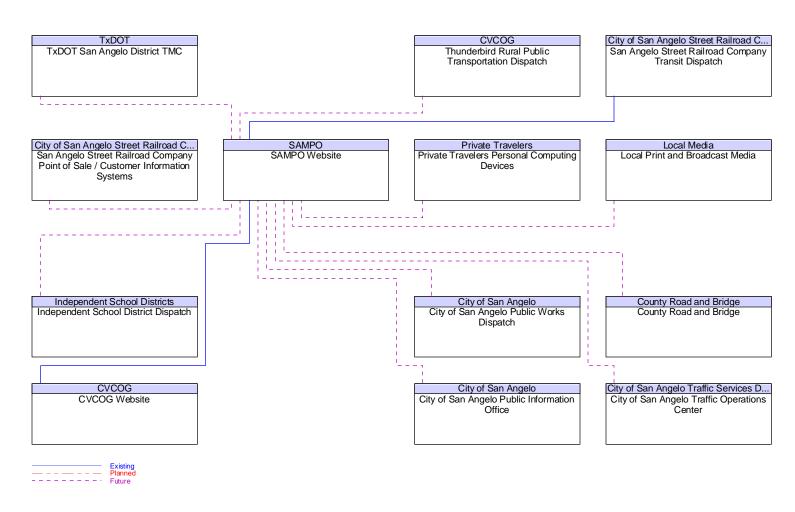






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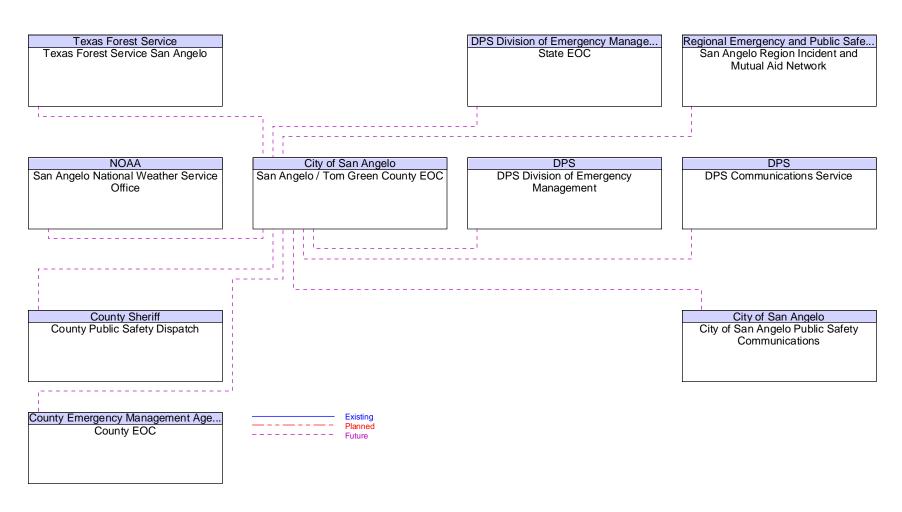
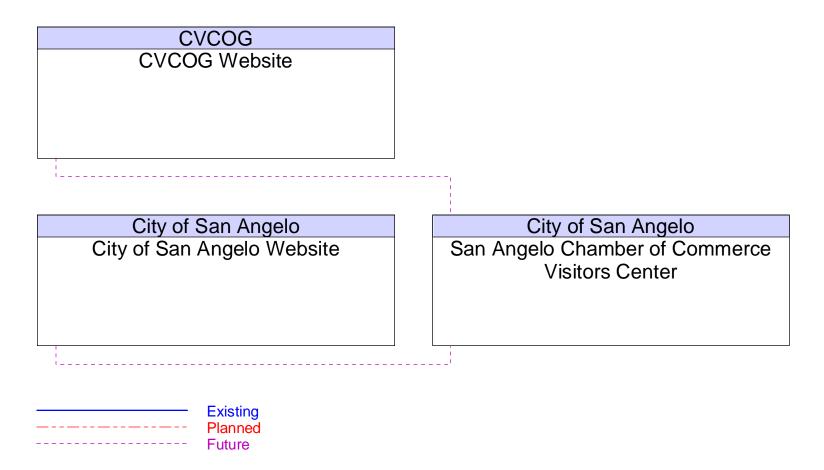






Figure B75 – San Angelo Chamber of Commerce Visitors Center Interfaces







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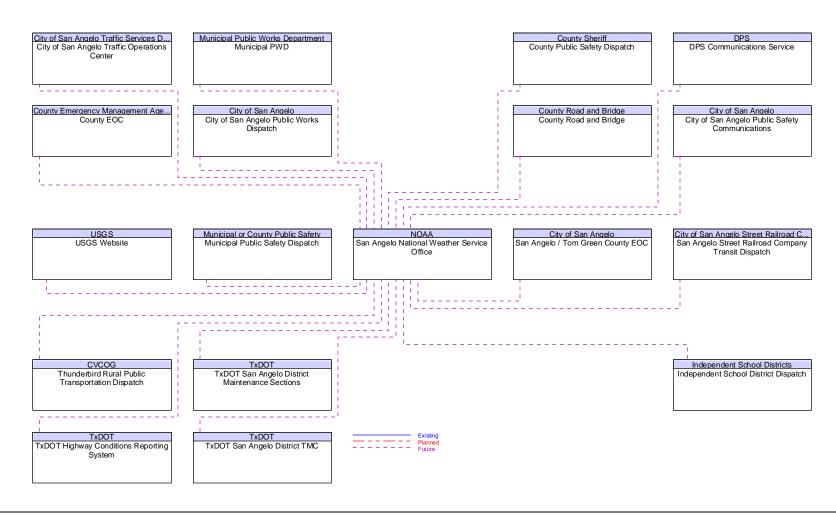






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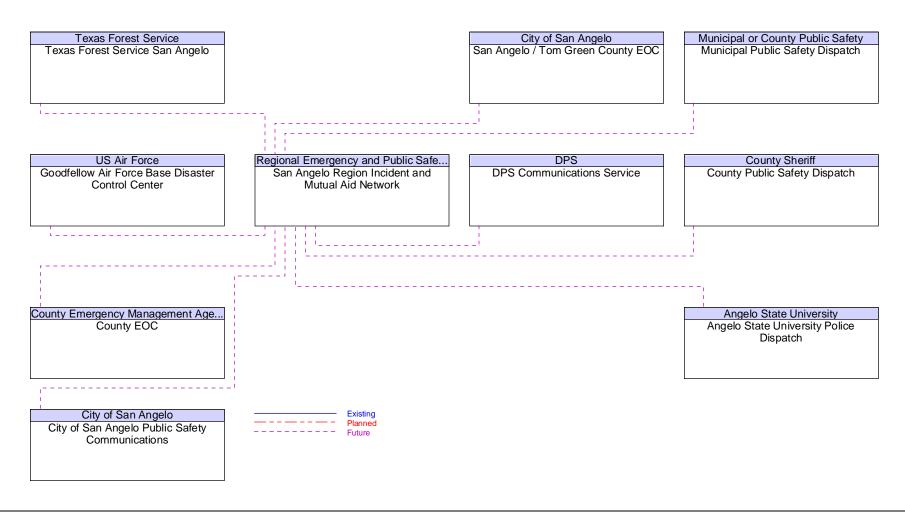
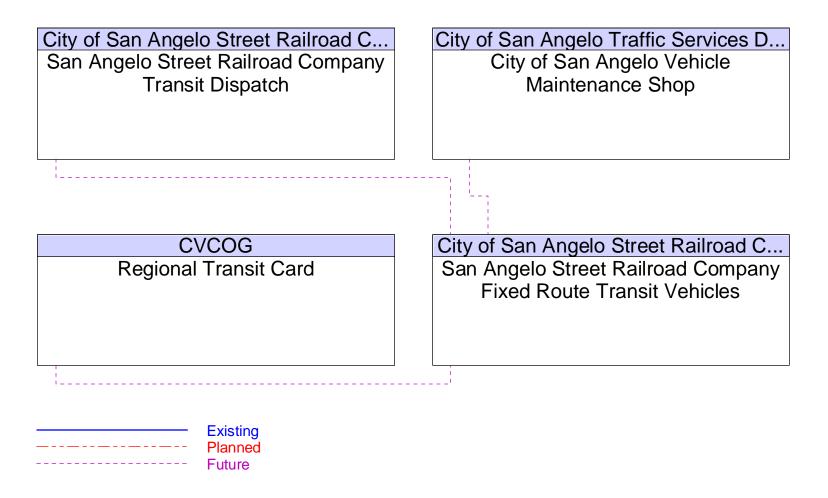






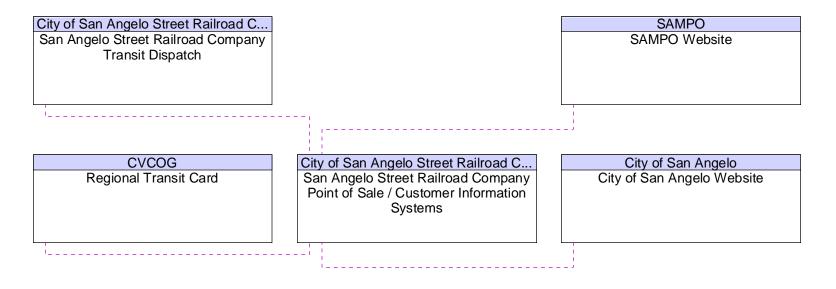
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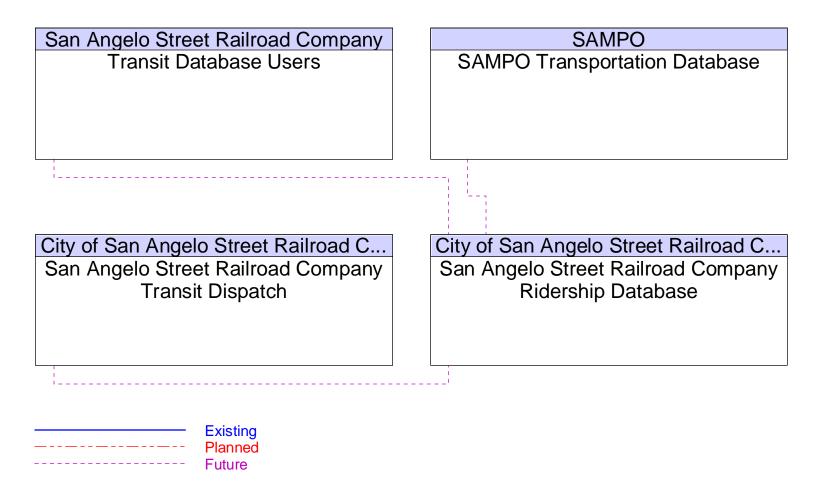
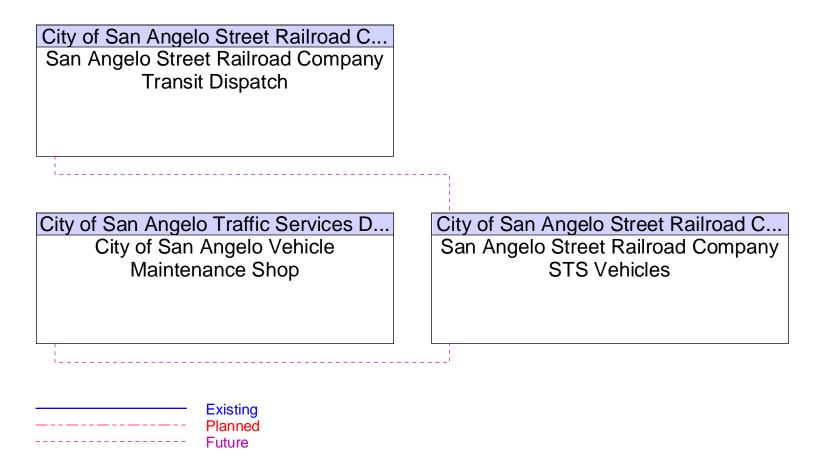






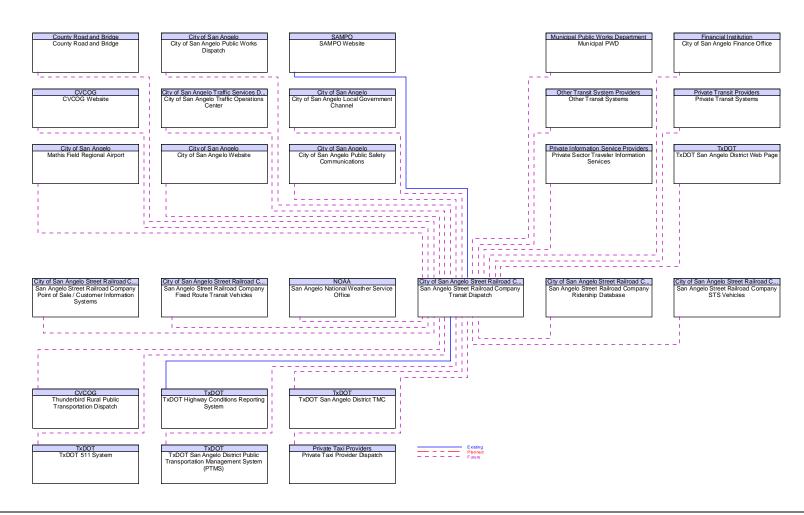
Figure B81 - San Angelo Street Railroad Company STS Vehicles Interfaces







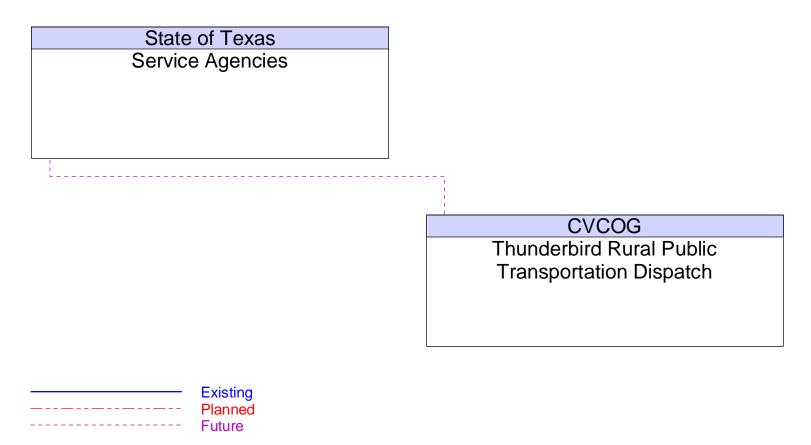
#### Figure B82 - San Angelo Street Railroad Company Transit Dispatch Interfaces







## Figure B83 - Service Agencies Interfaces





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#### Figure B84 – State EOC Interfaces

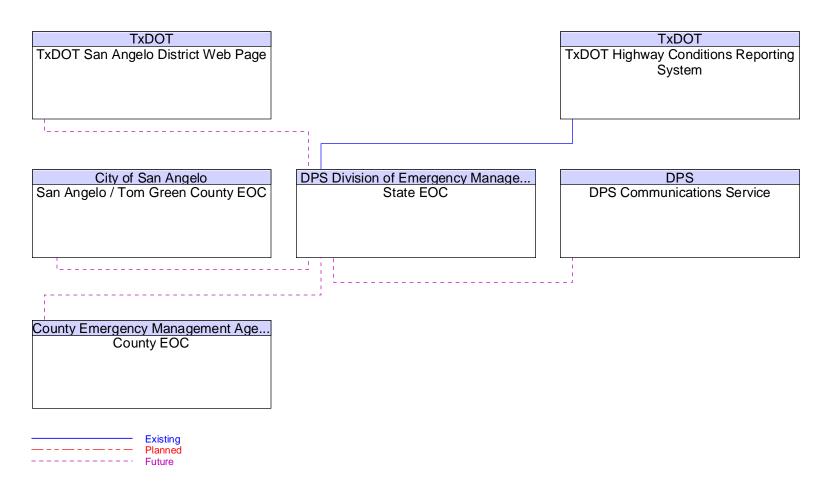
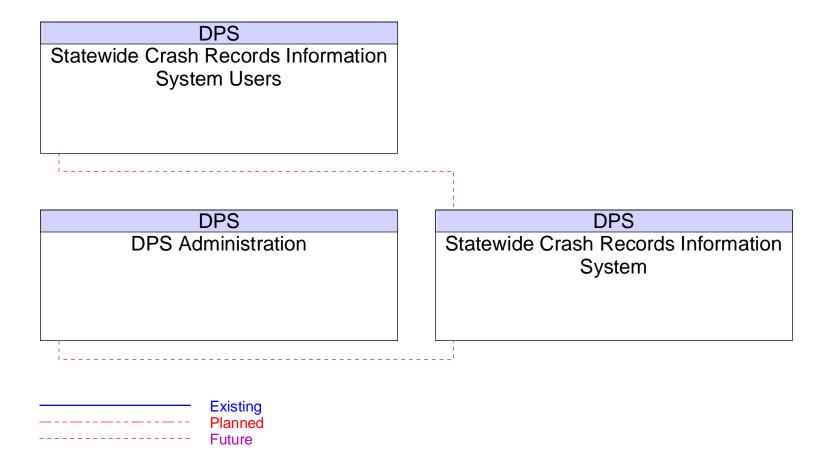






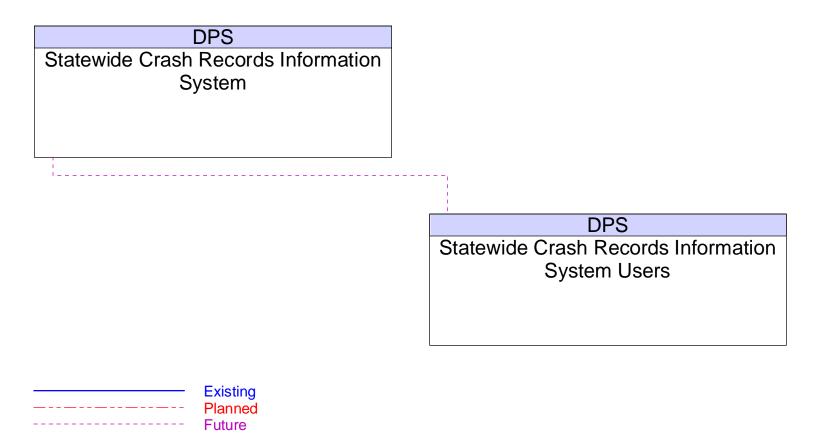
Figure B85 - Statewide Crash Records Information System Interfaces







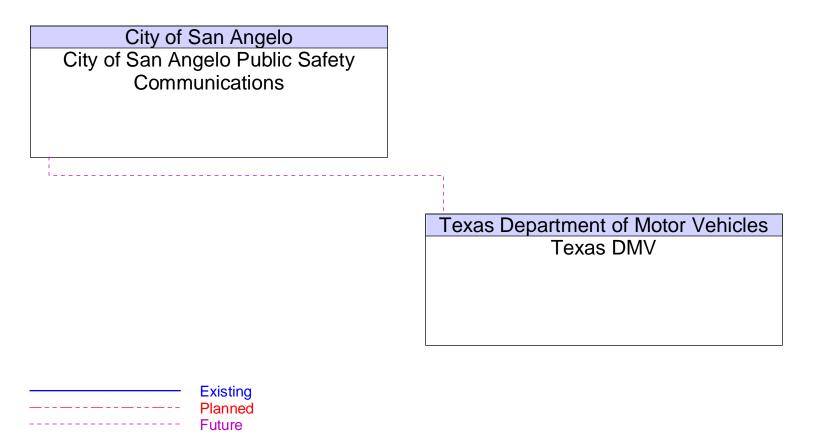
## Figure B86 – Statewide Crash Records Information System Users Interfaces







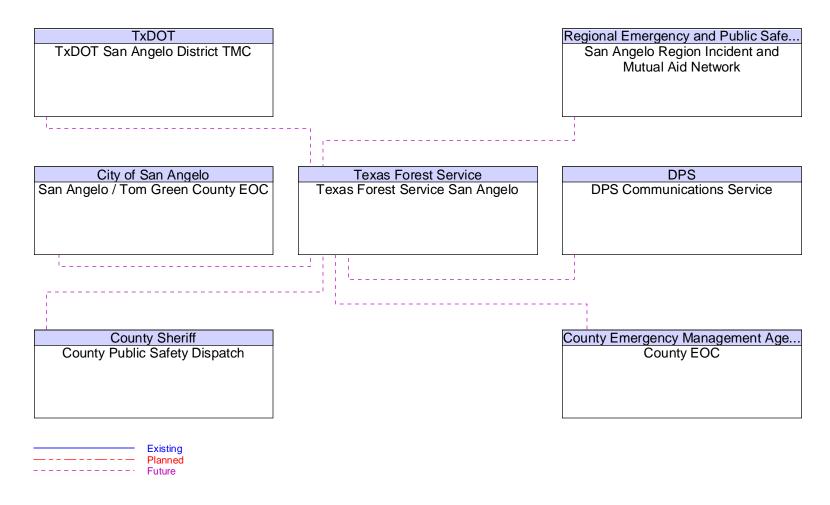
## Figure B87 - Texas DMV Interfaces







## Figure B88 – Texas Forest Service San Angelo Interfaces







#### Figure B89 – Thunderbird Rural Public Transportation Dispatch Interfaces

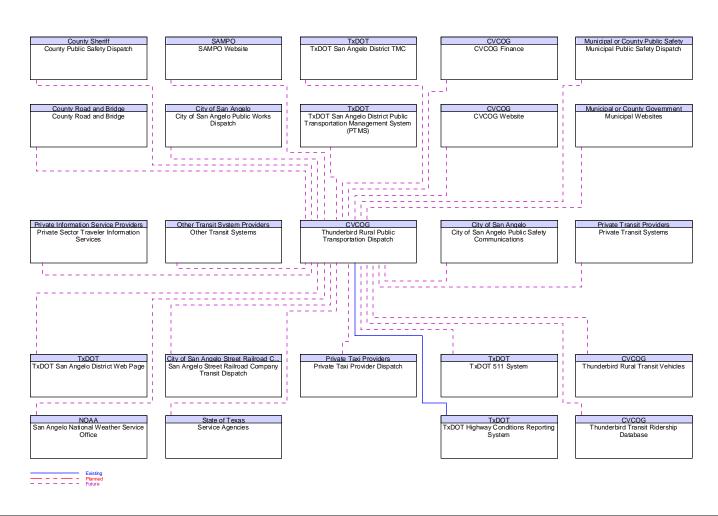






Figure B90 - Thunderbird Rural Transit Vehicles Interfaces

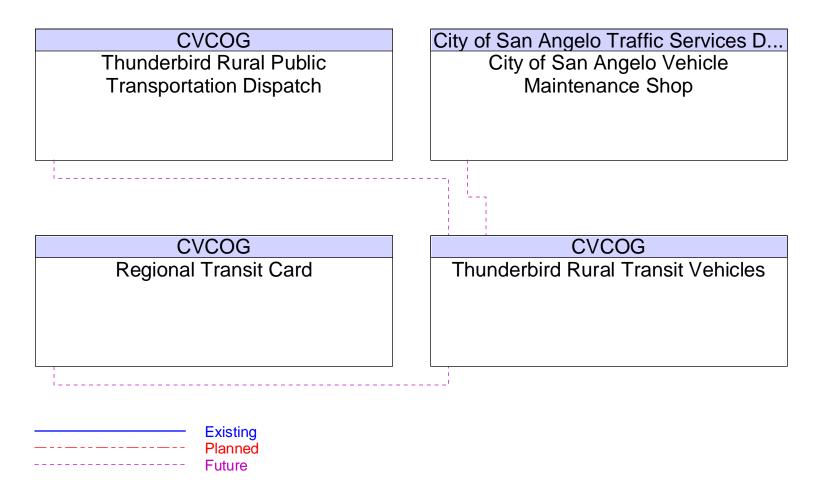
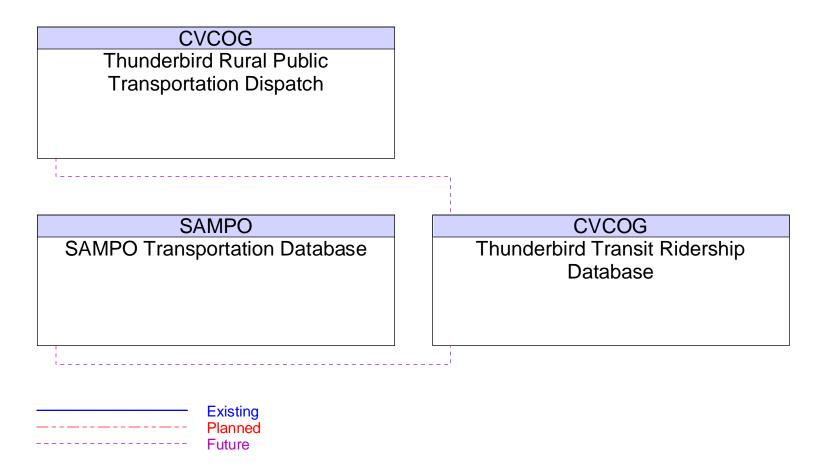






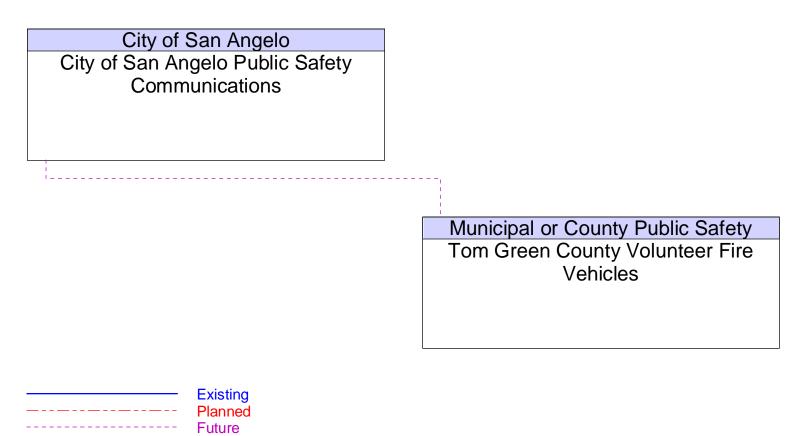
Figure B91 – Thunderbird Transit Ridership Database Interfaces







#### Figure B92 - Tom Green County Volunteer Fire Vehicles Interfaces







## Figure B93 – TransGuide TMC Interfaces

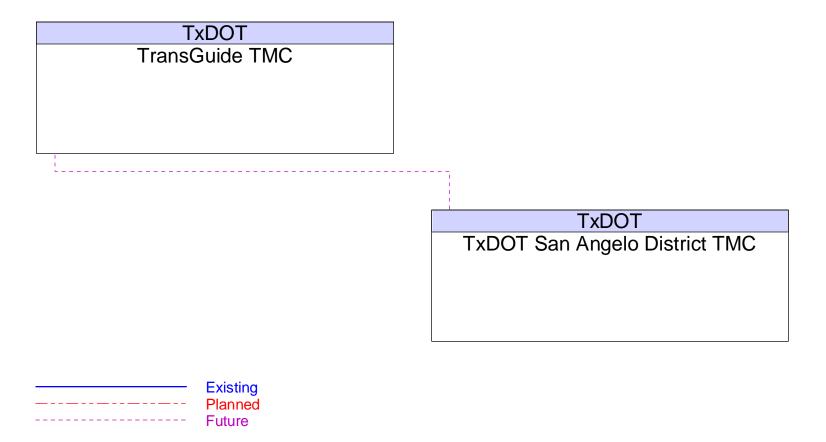
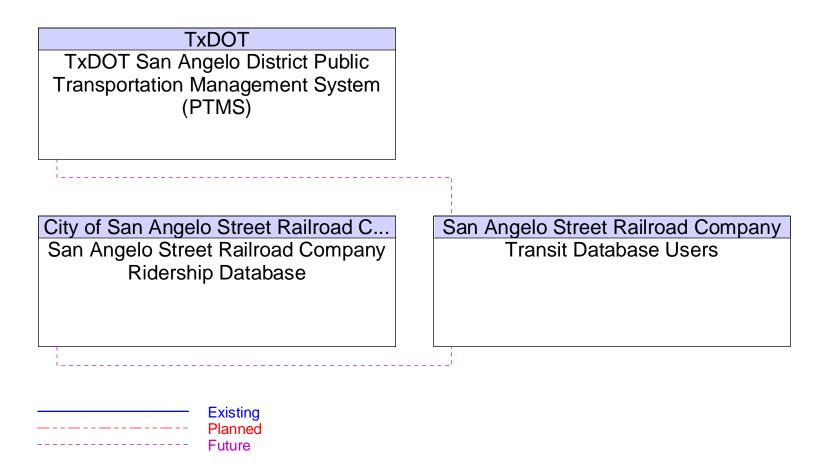






Figure B94 - Transit Database Users Interfaces





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Figure B95 - TxDOT 511 System Interfaces

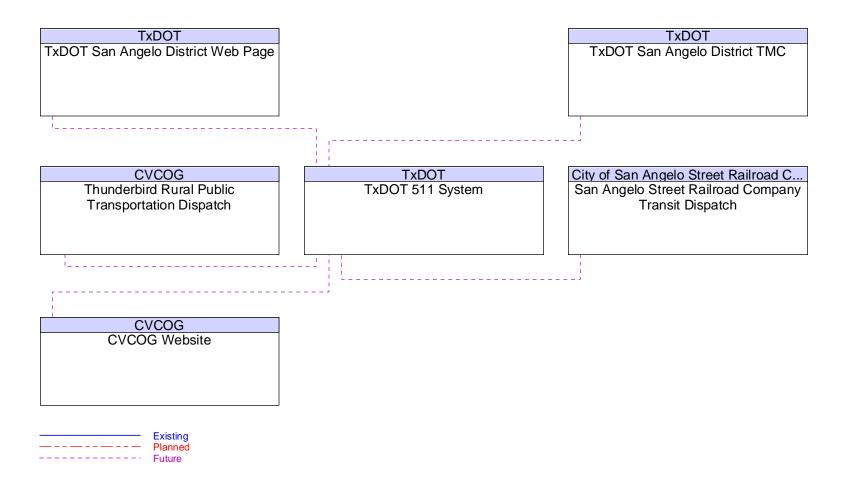
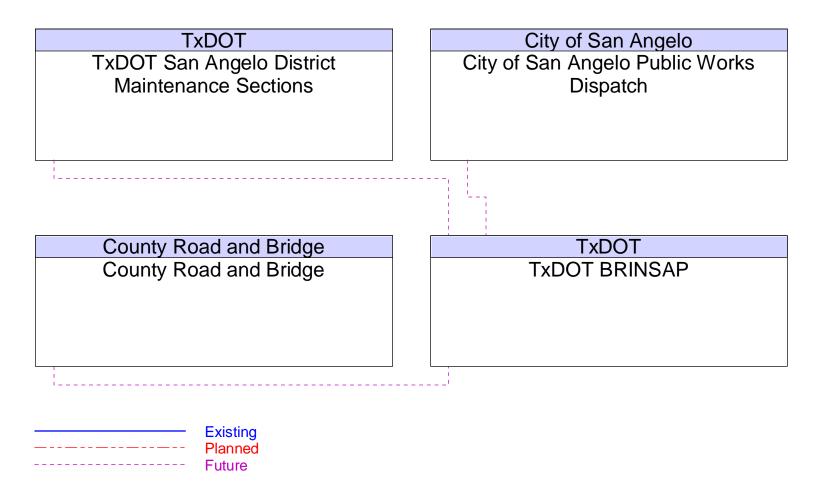






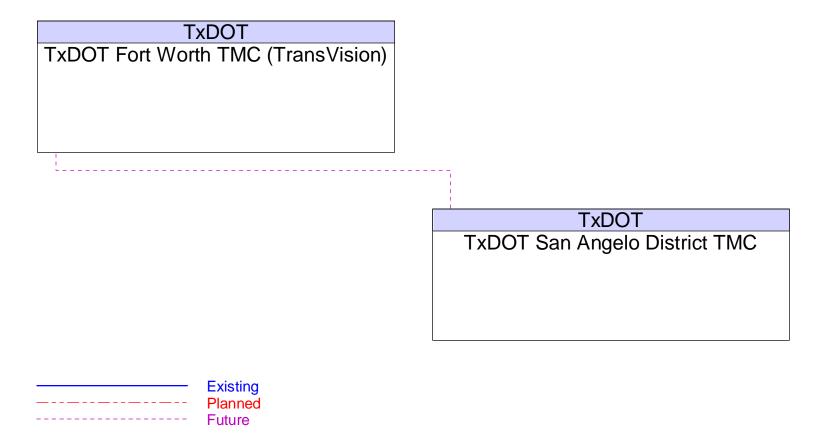
Figure B96 - TxDOT BRINSAP Interfaces







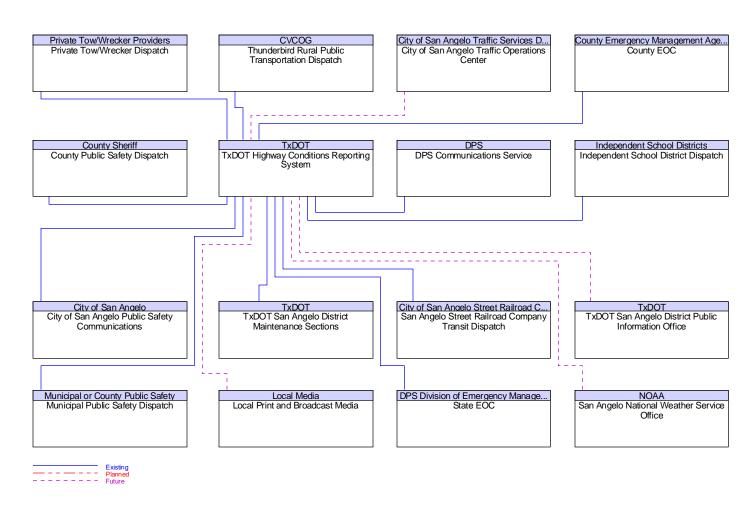
# Figure B97 - TxDOT Fort Worth TMC (TransVision) Interfaces







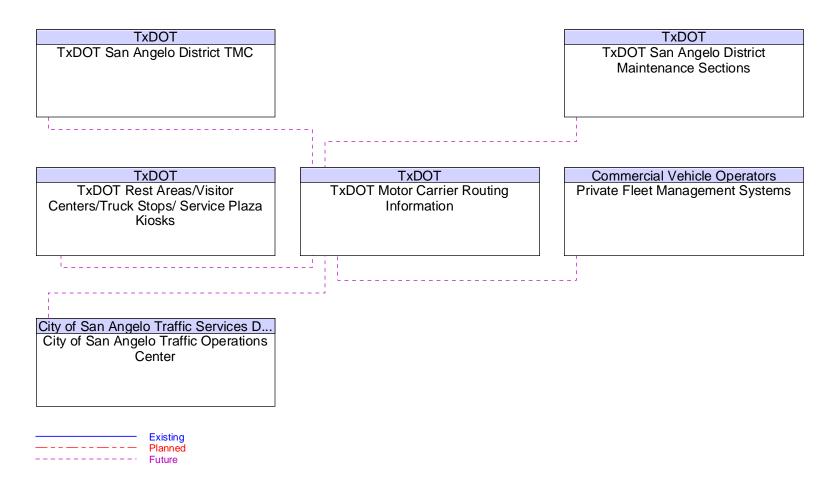
#### Figure B98 - TxDOT Highway Conditions Reporting System Interfaces







## Figure B99 – TxDOT Motor Carrier Routing Information Interfaces







## Figure B100 – TxDOT Public Transportation Division Interfaces

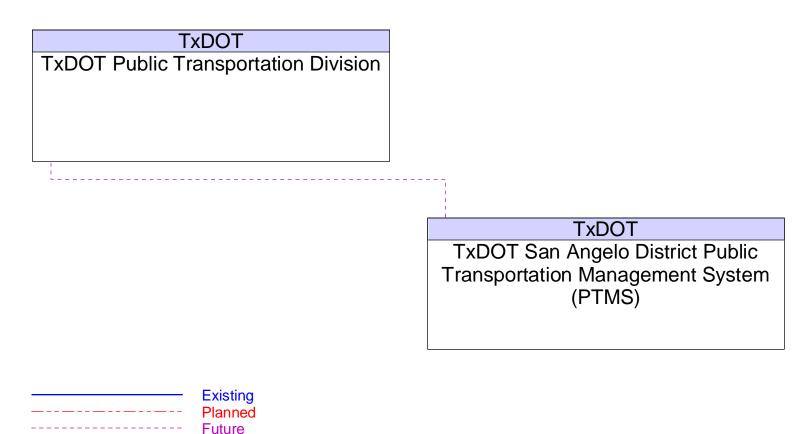






Figure B101 - TxDOT Rest Areas/Visitor Centers/Truck Stops/Service Plaza Kiosks Interfaces

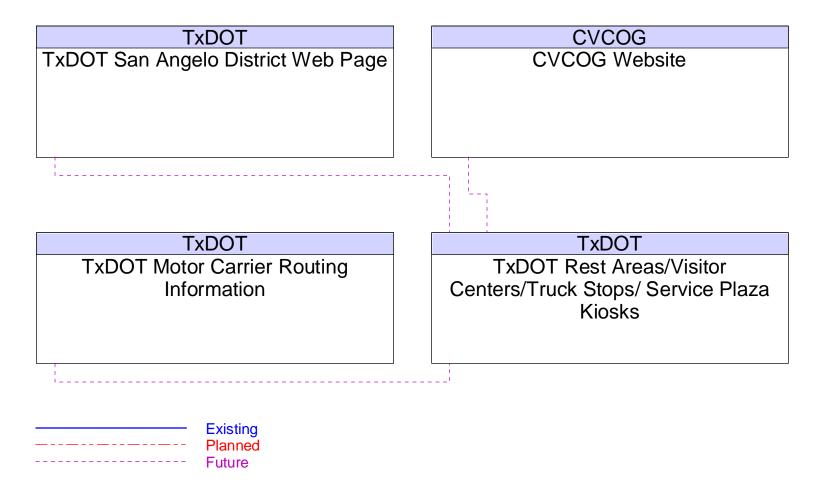
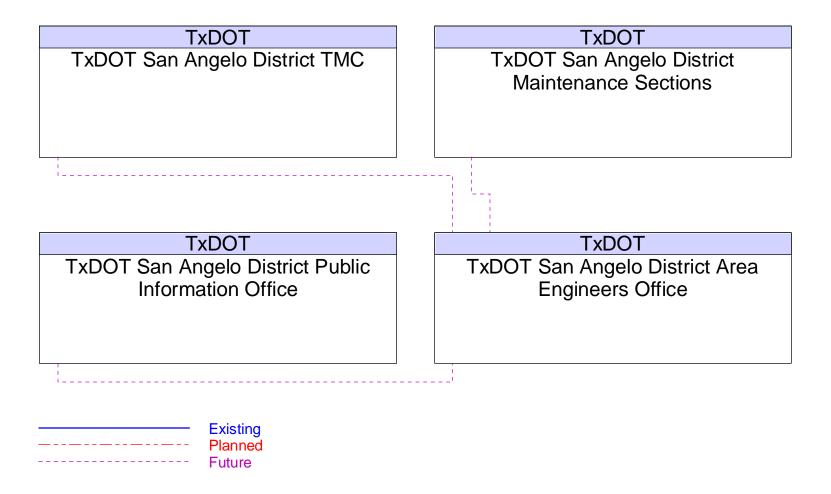






Figure B102 - TxDOT San Angelo District Area Engineers Office Interfaces







#### Figure B103 – TxDOT San Angelo District CCTV Interfaces

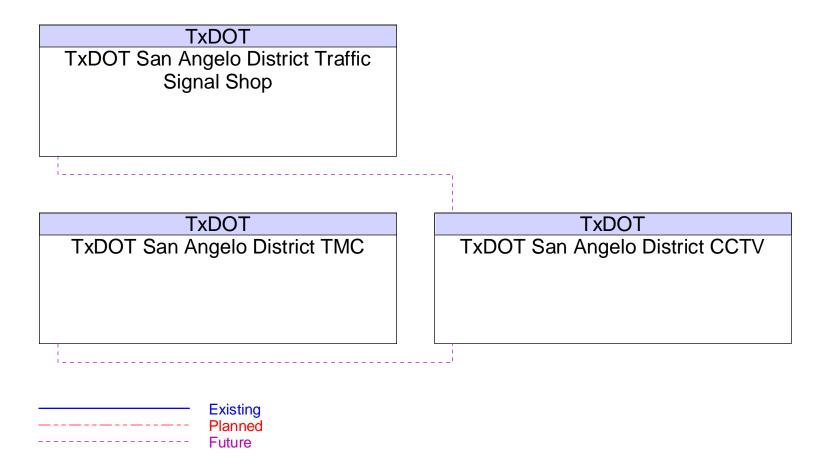
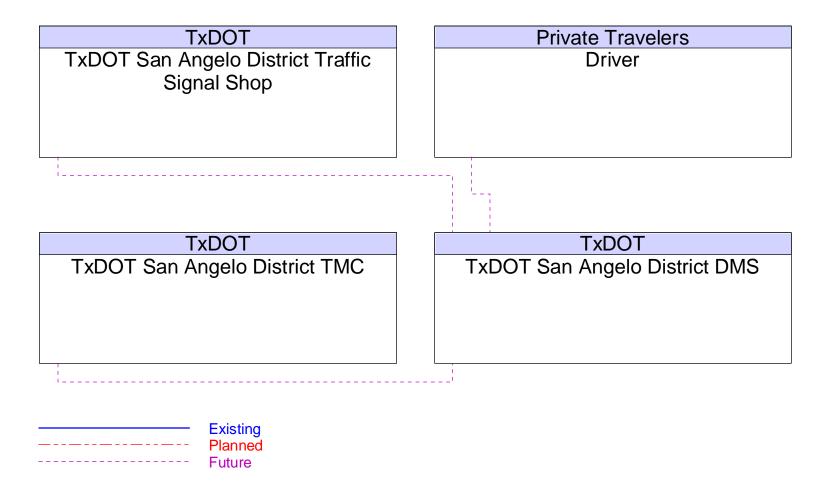






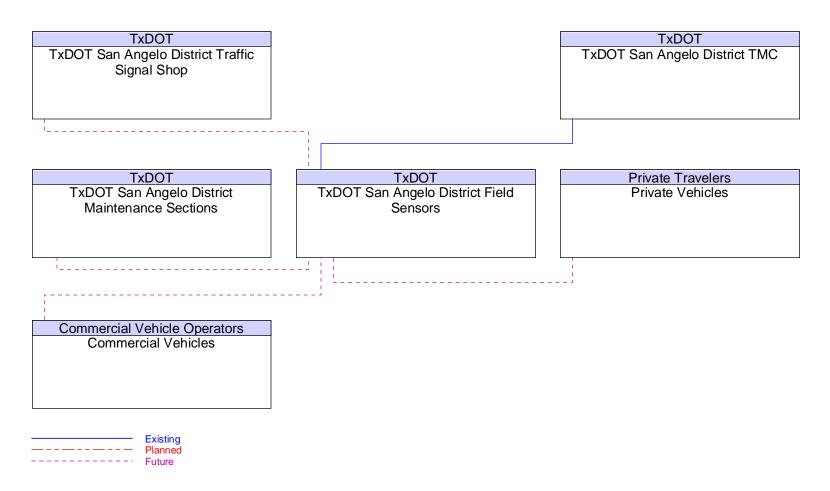
Figure B104 - TxDOT San Angelo District DMS Interfaces







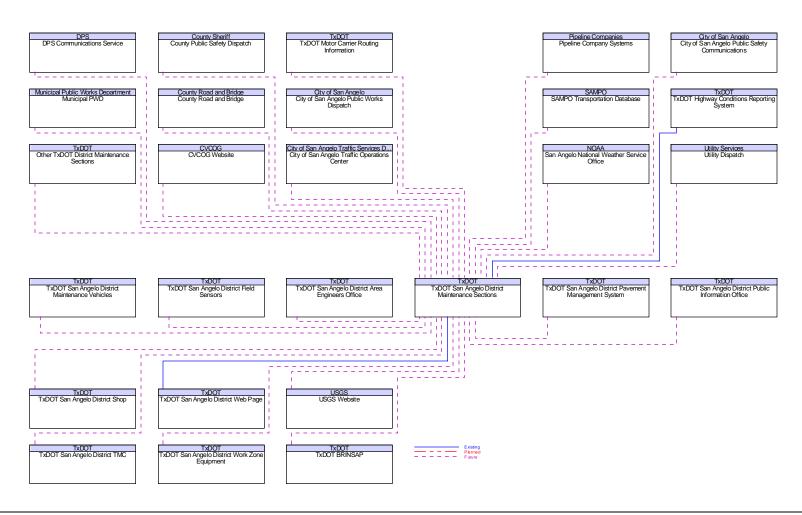
#### Figure B105 – TxDOT San Angelo District Field Sensors Interfaces







#### Figure B106 - TxDOT San Angelo District Maintenance Sections Interfaces







#### Figure B107 – TxDOT San Angelo District Maintenance Vehicles Interfaces

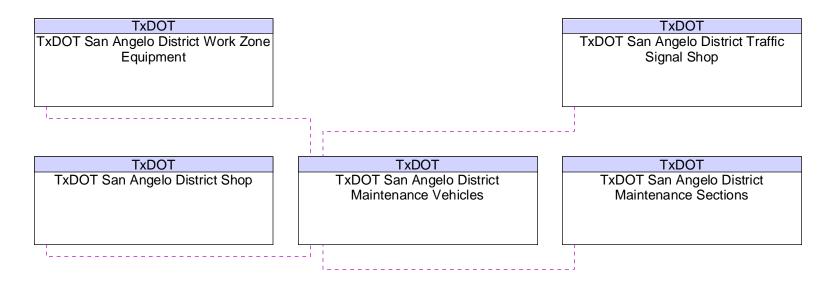
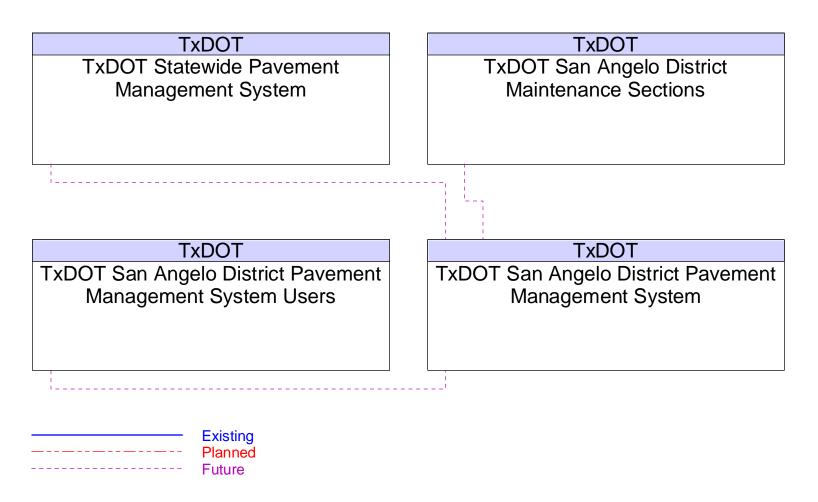






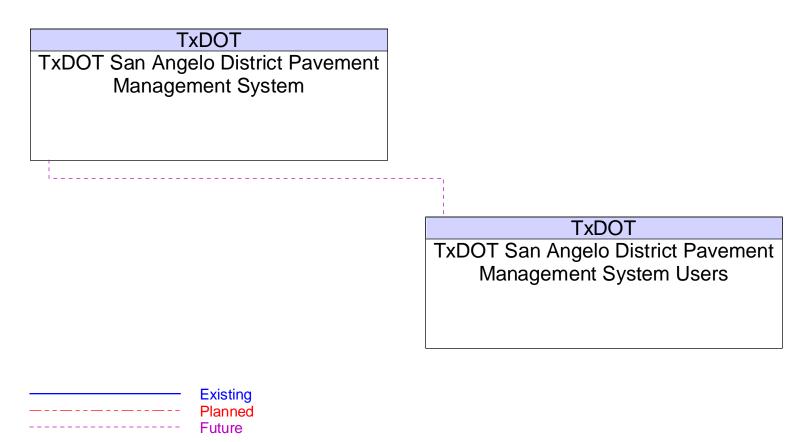
Figure B108 – TxDOT San Angelo District Pavement Management System Interfaces







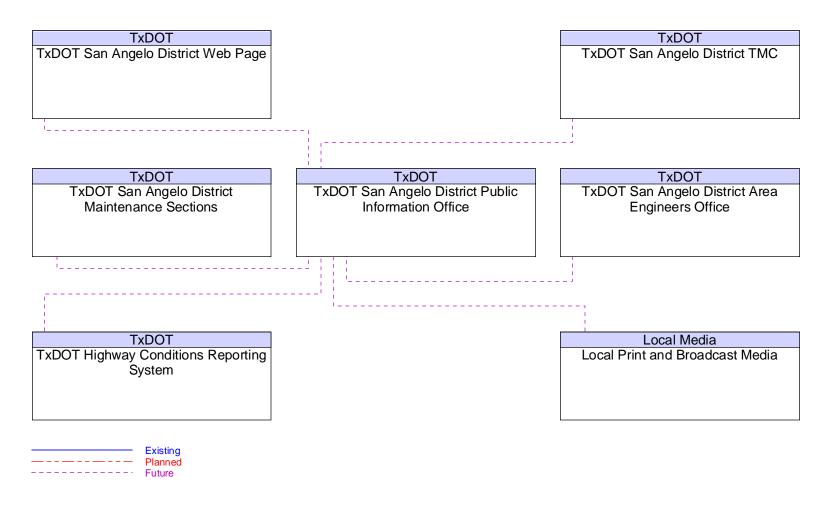
#### Figure B109 - TxDOT San Angelo District Pavement Management System Users Interfaces







#### Figure B110 - TxDOT San Angelo District Public Information Office Interfaces







#### Figure B111 - TxDOT San Angelo District Public Transportation Management System (PTMS) Interfaces

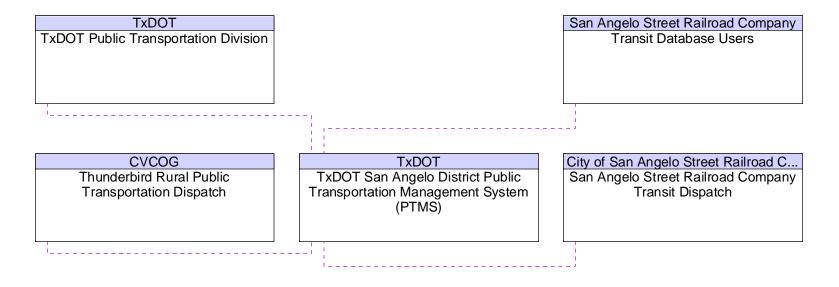
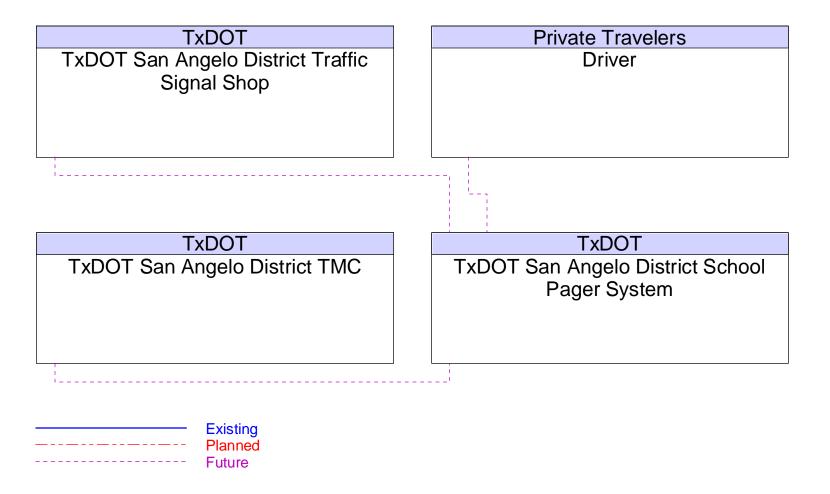






Figure B112 – TxDOT San Angelo District School Pager System Interfaces







#### Figure B113 - TxDOT San Angelo District Shop Interfaces

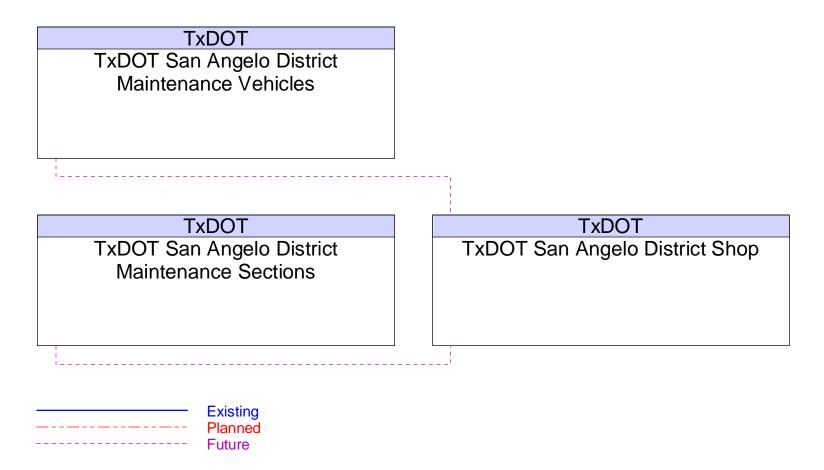








Figure B114 - TxDOT San Angelo District TMC Interfaces

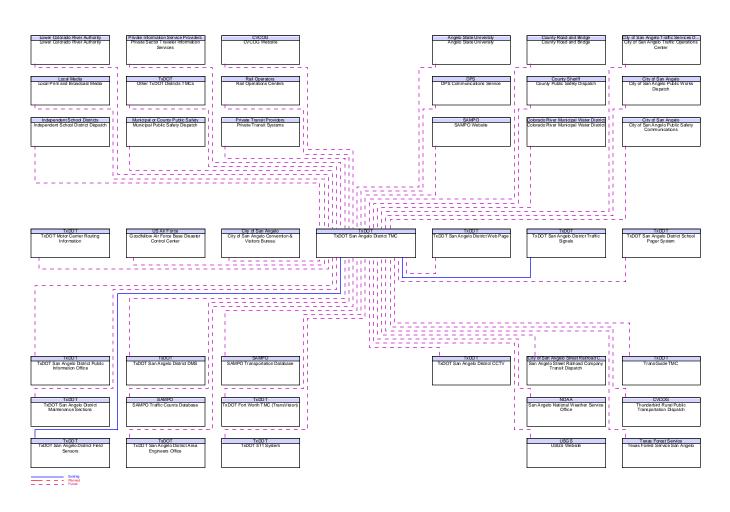
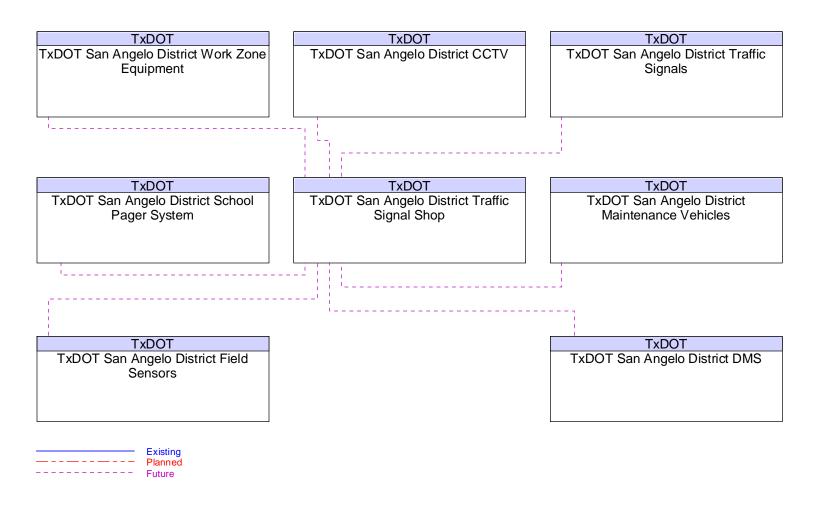






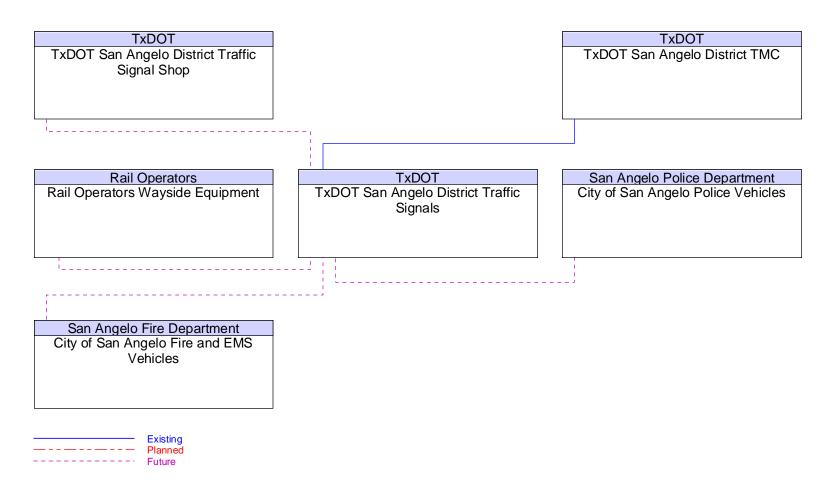
Figure B115 – TxDOT San Angelo District Traffic Signal Shop Interfaces







#### Figure B116 - TxDOT San Angelo District Traffic Signals Interfaces







#### Figure B117 - TxDOT San Angelo District Web Page Interfaces

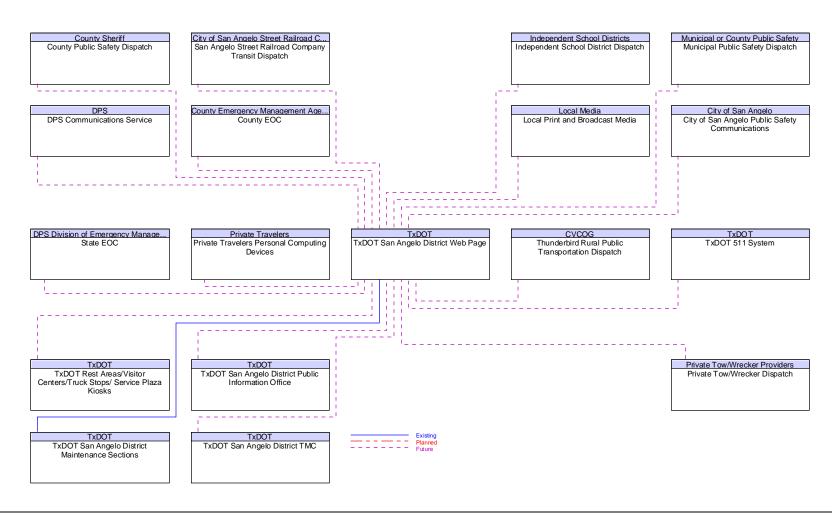
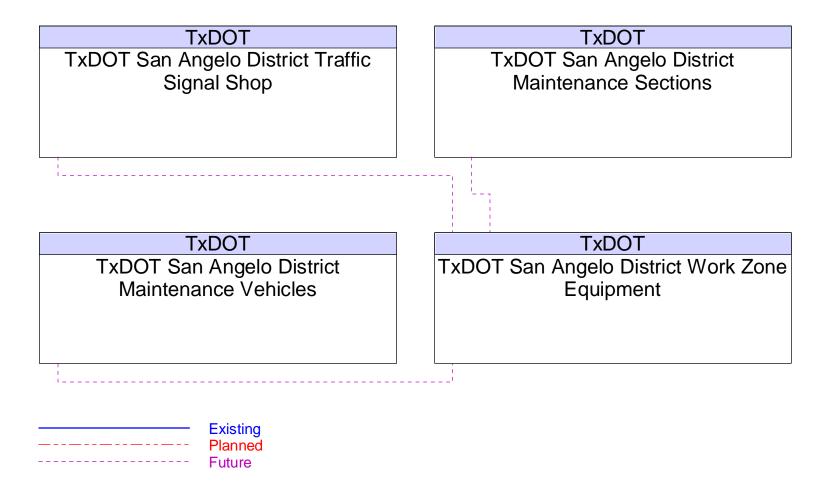






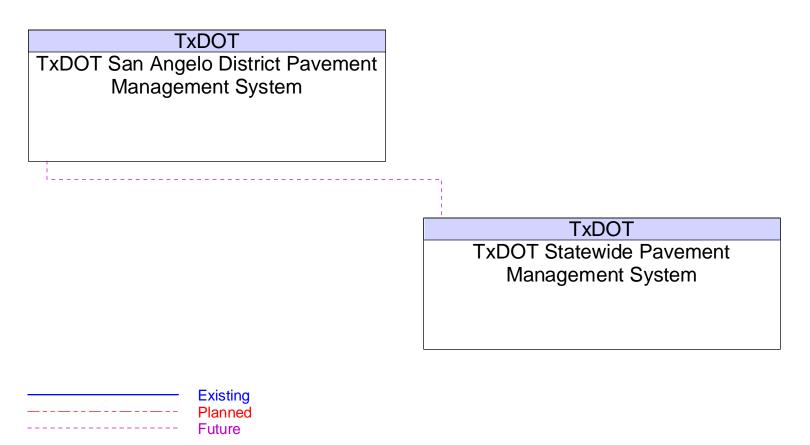
Figure B118 - TxDOT San Angelo District Work Zone Equipment Interfaces







## Figure B119 – TxDOT Statewide Pavement Management System Interfaces







## Figure B120 – TxDOT Transportation Planning and Programming Division Interfaces

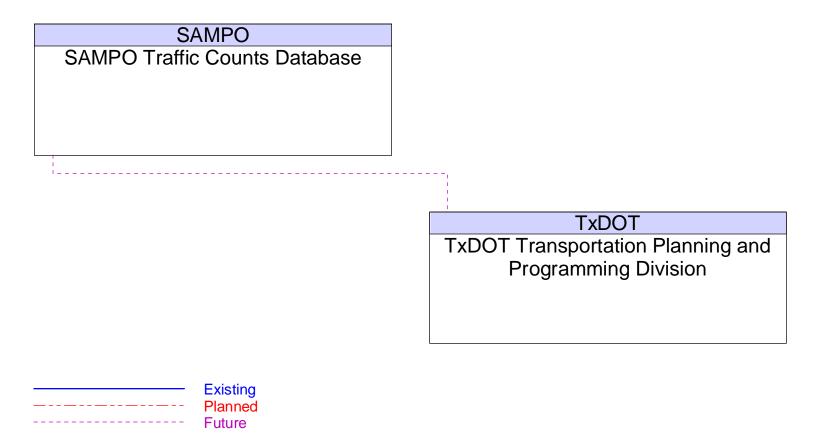
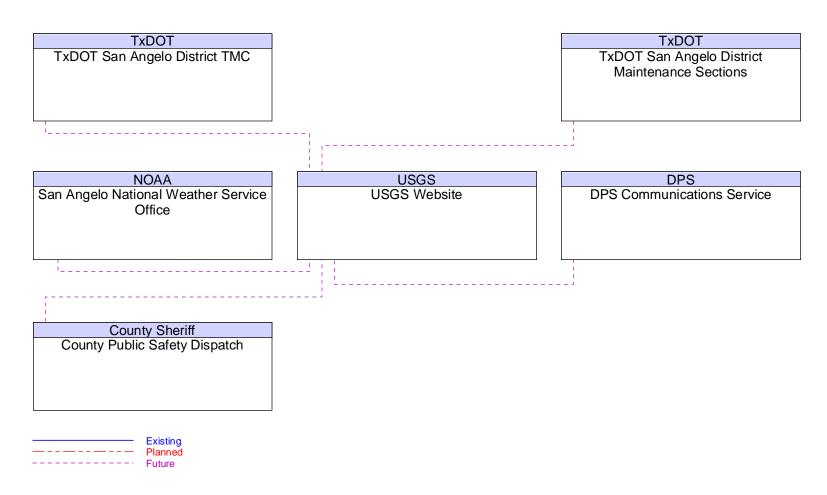








Figure B121 - USGS Website Interfaces





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#### Figure B122 – Utility Dispatch Interfaces

