APPENDIX F
INTERCONNECT DIAGRAMS
AND
ARCHITECTURE FLOWS DIAGRAMS
(FROM TURBO ARCHITECTURE TOOL)

UPDATED JUNE 30, 2005
The diagrams in Appendix F fall in alphabetical order by Stakeholders (see Appendix C), and the Stakeholders’ respective Associated Elements. Please follow that order to find a specific diagram.

As a general rule, the stakeholder/associated element for which the diagram represents, is shown in the upper left of the diagram; with the other related stakeholders/associated elements appearing below and to the right of the primary stakeholder/associated element.

For the more complex diagrams, the stakeholder/associated element for which the diagram represents, is shown in the center of the diagram; with the other related stakeholders/associated elements surrounding the primary stakeholder/associated element.

Certain of the diagrams are very complex and have been inserted into this Appendix on 11x17 size paper. Even with this increase in paper size some of those diagrams are not readable in this format. Wherever this is the case, those diagrams have been plotted in a large “engineering drawing” format (D or E size, as appropriate) and distributed to the directly affected Stakeholders. These plots can also be made available for viewing to other interested Stakeholders in the Inland Empire region.
Stakeholder: Arizona Department of Transportation (ADOT)
Architecture Element: Arizona Department of Transportation (ADOT) ATMS

Interconnect Diagram

Caltrans D-8
Caltrans D-8 TMC

Existing

Arizona DOT (ADOT)
Arizona DOT (ADOT) ATMS
Stakeholder: Arizona Department of Transportation (ADOT)
Architecture Element: Arizona Department of Transportation (ADOT) ATMS

Architecture Flows Diagram

Caltrans D-8
Caltrans D-8 TMC

Arizona DOT (ADOT)
Arizona DOT (ADOT) ATMS

Existing
Planned
Stakeholder: California Department of Motor Vehicles (DMV)
Architecture Element: DMV CVO Administration (PrePass)

Interconnect Diagram
Stakeholder: California Department of Motor Vehicles (DMV)
Architecture Element: DMV CVO Administration (PrePass)

Architecture Flows Diagram

[Diagram showing flows between California Department of Motor Vehicles (DMV), Southern California Association of Governments (SCAG), Caltrans HQ, and CVO Weigh Stations (including weigh-in-motion).]

- Credentials information
- Credentials status information
- Safety inspection report
- Safety status information
- Commercial vehicle archive data
- Archive requests
- Archive status

Existing
Planned
Stakeholder: California Highway Patrol (CHP)
Architecture Element: CHP CAD System
Interconnect Diagram
Stakeholder: California Highway Patrol (CHP)
Architecture Element: CHP CAD System

Architecture Flows Diagram

- Emergency traffic control request
- Incident response status
- Remote surveillance control
- Resource request
- Archive requests
- Archive status
- Emergency traffic control information
- Resource deployment status
- Road network conditions
- Traffic images
- Incident information
- Alert notification coordination
- Emergency plan coordination
- Evacuation coordination
- Incident command information coordination
- Incident report
- Incident response coordination
- Resource coordination
- Threat information coordination
- Transportation system status
- Emergency dispatch requests
- Suggested route
- Emergency dispatch response
- Incident status
- Emergency dispatch requests
- Emergency dispatch response
- Emergency vehicle tracking data
- Emergency routes
- Traffic images
- Incident command information coordination
- Incident report
- Incident response coordination
- Resource coordination
- Incident information for media
- Media information request
- Emergency route request
- Emergency routes
- Traffic images
- Incident command information coordination
- Incident report
- Incident response coordination
- Resource coordination

Existing
Planned
Stakeholder: California Highway Patrol (CHP)
Architecture Element: CHP Vehicles

Interconnect Diagram

[Diagram showing the interconnects between California Highway Patrol (CHP) CAD System and Caltrans D-8 Signal Ops Roadside Equipment, with planned and existing connections indicated.]
Stakeholder: California Highway Patrol (CHP)
Architecture Element: CHP Vehicles

Architecture Flows Diagram

California Highway Patrol (CHP)
CHP CAD System

- emergency dispatch response
- incident status
- emergency dispatch requests
- suggested route

Caltrans D-8
Caltrans D-8 Signal Ops Roadside Equipment

- local signal preemption request

Existing
Planned
Stakeholder: Caltrans District 8
Architecture Element: Caltrans D-8 Maintenance and Construction Mgmt System

Interconnect Diagram

- **Public/Private Information Service Providers**
  - Regional Traveler Information Service Providers
  - Caltrans D-8 Roadway Maintenance Vehicles
  - Caltrans D-8 Caltrans D-8 Maintenance and Construction Mgmt System
  - Caltrans D-8 TMC
  - City of Fontana Fontana Traveler Information
  - TV, radio and other media outlets (Existing/Planned Media)

- **Local Cities and Counties**
  - Local City and County Signal Systems

- **Caltrans D-8**
  - Caltrans D-8 Roadway Maintenance Vehicles
  - Caltrans D-8 Maintenance and Construction Mgmt System
  - Caltrans D-8 TMC

- **Existing/Planned**

• Iteris, Inc. •

Page F-10
June 30, 2005
Stakeholder: Caltrans District 8
Architecture Element: Caltrans D-8 Maintenance and Construction Mgmt System

Architecture Flows Diagram

- Caltrans D-8
  - Caltrans D-8 TMC
  - Caltrans D-8 Maintenance and Construction Mgmt System
  - City of Fontana
    - Fontana Traveler Information
  - Local Cities and Counties
    - Local City and County Signal Systems
  - Public/Private Information Service Providers
    - Regional Traveler Information Service Providers
    - TV, radio and other media outlets (Local Media)

- Current asset restrictions
- Maint and constr vehicle location data
- Maint and constr work plans
- Road network conditions
- Roadway maintenance status
- Work zone information
- Road weather information
- Incident information
- Equipment maintenance status
- Maint and constr resource request
- Maint and constr resource response
- Maint and constr archive data
- Maint and constr work plans

Existing
Planned

- Iteris, Inc.

Page F-11
June 30, 2005
Stakeholder: Caltrans District 8
Architecture Element: Roadway Maintenance Vehicles

Interconnect Diagram

Caltrans D-8 Maintenance and Construction Mgmt System

Planed

Caltrans D-8 Roadway Maintenance Vehicles
Stakeholder: Caltrans District 8
Architecture Element: Roadway Maintenance Vehicles
Architecture Flows Diagram

Caltrans D-8
Caltrans D-8 Maintenance and Construction Mgmt System

Caltrans D-8 Roadway Maintenance Vehicles

Planned

maint and constr vehicle location data
Stakeholder: Caltrans District 8
Architecture Element: Caltrans D-8 Signal Ops
Interconnect Diagram

- Caltrans D-8
  - Caltrans TMC Data Exchange
- City of Fontana
  - Fontana TMC
- Neighbor Agencies
  - Border Region Interfaces
  - Arterial Traffic Data Exchange
- Partners for Advanced Transit and Hi.
  - Performance Monitoring System (PeMS)
- Caltrans D-8
  - Caltrans D-8 Signal Ops
- Public/Private Information Service Prov.
  - Regional Traveler Information Service Providers
- Local Cities and Counties
  - Local City and County Signal Systems
- Local Cities and Counties
  - Local and other Fire Departments Systems
- Local Cities and Counties
  - Local Police and Sheriff Departments Systems
- Caltrans D-8
  - Caltrans D-8 Signal Ops Roadside Equipment
- California Highway Patrol (CHP)
  - CHP CAD System
- City of Fontana
  - Fontana Police Dispatch Center
- City of Corona
  - Corona TMC

- Existing
- Planned

Iteris, Inc.

Page F-14
June 30, 2005
Stakeholder: Caltrans District 8
Architecture Element: Caltrans D-8 Signal Ops

Architecture Flows Diagram

- Caltrans District 8: Caltrans D-8 Signal Ops Equipment
- Iteris, Inc.
- June 30, 2005
Stakeholder: Caltrans District 8
Architecture Element: Caltrans D-8 Signal Ops Roadside Equipment
Interconnect Diagram

- Railroad Operators
  - Rail Grade Crossing Warning Eqpt.
- City of Fontana
  - Fontana Emergency Vehicles
- Omnitrans
  - Omnitrans Transit Vehicles
- SunLine Transit Agency
  - SunLine Transit Vehicles
- Caltrans D-8
  - Caltrans D-8 Signal Ops Roadside Equipment
- Riverside Transit Agency (RTA)
  - RTA Transit Vehicles
- Local Cities and Counties
  - Municipal and small transit agencies vehicles
- California Highway Patrol (CHP)
  - CHP Vehicles
- Caltrans D-8
  - Caltrans D-8 Signal Ops

Note: Existing and Planned

Iteris, Inc.

Page F-16
June 30, 2005
Stakeholder: Caltrans District 8
Architecture Element: Caltrans D-8 Signal Ops Roadside Equipment

Architecture Flows Diagram

- Caltrans D-8
- Railroad Operators
- City of Fontana
- Omnitrans
- SunLine Transit Agency
- Riverside Transit Agency (RTA)
- Local Cities and Counties
- Local Cities and Counties
- Local Cities and Counties
- California Highway Patrol (CHP)

- Rail Grade Crossing Warning Equipment
- Fontana Emergency Vehicles
- SunLine Transit Vehicles
- RTA Transit Vehicles
- Municipal and small transit agencies vehicles
- Local Police and Sheriff Dept Vehicles
- Local and other Fire Vehicles
- CHP Vehicles

- Traffic images
- Traffic flow
- Traffic sensor control
- Video surveillance control
- Traffic control data
- Signal control status
- MH status
- MH requested
- MH operational status
- Intersection blockage notification
- Arriving train information
- Track status
- Local signal preemption request
- Local signal priority request
- Local signal priority request
- Local signal priority request
- Local signal priority request
- Local signal preemption request

- Existing
- Planned

Iteris, Inc.
Stakeholder: Caltrans District 8
Architecture Element: Caltrans D-8 TMC
Architecture Flows Diagram

- Southern California Association of Government
- Data Archive
- TV, radio and other media outlets (Internet)
- Neighbor Agencies
- California Highway Patrol (CHP)
- CHP CAD System
- Partners for Advanced Transit and High Performance Monitoring System (PeMS)
- City of Corona
- Corona TMC
- Public/Private Information System Providers
- San Bernardino Associated Government
- San Bernardino County Smart Call Boxes
- Nevada DOT (NDOT)
- Nevada DOT (NDOT) ATMS
- Arizona DOT (ADOT)
- Arizona DOT (ADOT) ATMS
- Riverside County Transportation Commission
- Riverside County Smart Call Boxes
- Neighbor Agencies
- Arterial Traffic Data Exchange
- Metrolink
- Metrolink Operations Center
- San Bernardino Associated Government
- San Bernardino Freeway Service Patrol
- Local Cities and Counties
- Local and other Fire Departments
- Omnitrans
- Omnitrans Fixed Route
- Riverside County Transportation Commission
- Riverside Freeway Service Patrol
- Local Cities and Counties
- Local Police and Sheriff Departments

Data Collection and Monitoring Control:
- Freeway Control Data
- Roadway Information System Data
- Speed Monitoring Control
- Traffic Sensor Control
- Video Surveillance Control
- Environmental Conditions Data
- Freeway Control Status
- Roadside Archive Data
- Roadway Information System Status
- Speed Monitoring Information
- Traffic Flow
- Traffic Images
- Field Equipment Status
- Incident Information
- Maintain and Construction Resource Request
- Road Network Conditions
- Equipment Maintenance Status
- Incident Information
- Maintain and Construction Archive Data
- Maintain and Construction Resource Response
- Maintain and Construction Work Plans
- Road Weather Information
- Roadway Maintenance Status
- Work Zone Information

ISP Coordination:
- Archive Requests
- Archive Status
- Archive Coordination
- Traveler Archive Data
- Traffic Archive Data
- Archive Requests
- Archive Status
- Archive Coordination
- Traveler Information for Media
- Media Information Request
- ISP Coordination
- Traffic Control Coordination
- Traffic Information Coordination
- ISP Coordination
- Road Network Probe Information
- Traveler Archive Data
- Traffic Archive Data
- Archive Requests
- Archive Status
- Archive Coordination
- Traffic Control Coordination
- Traffic Information Coordination
- ISP Coordination
- Road Network Conditions
- Traffic Control Coordination
- Traffic Information Coordination
- Traffic Information Coordination
- Traffic Information Coordination
- Traffic Control Coordination
- Traffic Images
- Traffic Images
- Traffic Images
- Traffic Images
- Traffic Images

Existing

Planned
Stakeholder: Caltrans District 8
Architecture Element: Caltrans D-8 TMC Roadside Equipment
Interconnect Diagram

Caltrans D-8
Caltrans D-8 TMC

Caltrans D-8
Caltrans D-8 TMC Roadside Equipment

Existing
Stakeholder: Caltrans District 8
Architecture Element: Caltrans D-8 TMC Roadside Equipment

Architecture Flows Diagram

Existing
Stakeholder: Caltrans District 8
Architecture Element: Caltrans D-8 TMC Data Exchange

Interconnect Diagram

City of Temecula
Temecula TOC

Caltrans D-8
Caltrans D-8 Signal Ops

Caltrans D-8
Caltrans D-8 TMC

Caltrans D-8
Caltrans TMC Data Exchange

City of Fontana
Fontana TMC

Planned
Stakeholder: Caltrans District 8
Architecture Element: Caltrans D-8 TMC Data Exchange

Architecture Flows Diagram

City of Temecula
Temecula TOC

Caltrans D-8
Caltrans D-8 Signal Ops

Caltrans D-8
Caltrans D-8 TMC

Caltrans D-8
Caltrans TMC Data Exchange

City of Fontana
Fontana TMC

Traffic control coordination
Traffic information coordination

Planned
Stakeholder: Caltrans HQ
Architecture Element: Caltrans CVO Administration (PrePass)

Interconnect Diagram

- California Department of Motor Vehicles
  - DMV CVO Administration (PrePass)
- Southern California Association of Governments
  - Data Archive

- Caltrans HQ
  - CVO Weigh Stations (including weigh-in-motion)
  - Caltrans CVO Administration (Pre-pass)

Existing
Planned
Stakeholder: Caltrans HQ
Architecture Element: Caltrans CVO Administration (PrePass)

Architecture Flows Diagram
Stakeholder: Caltrans HQ
Architecture Element: CVO Weigh Stations (including weigh-in-motion)
Interconnect Diagram

California Department of Motor Vehicles
DMV CVO Administration (PrePass)

Private Commercial Vehicle Owners
Commercial Vehicles

Caltrans HQ
Caltrans CVO Administration (Pre-pass)

Caltrans HQ
CVO Weigh Stations (including weigh-in-motion)

Existing
Stakeholder: Caltrans HQ
Architecture Element: CVO Weigh Stations (including weigh-in-motion)

Architecture Flows Diagram
Stakeholder: City of Corona
Architecture Element: Corona TMC

Interconnect Diagram
Stakeholder: City of Corona
Architecture Element: Corona TMC Roadside Equipment

Interconnect Diagram

Railroad Operators
- Rail Grade Crossing Warning Eqpt.

Riverside Transit Agency (RTA)
- RTA Transit Vehicles

Local Cities and Counties
- Municipal and small transit agencies vehicles

City of Corona
- Corona TMC Roadside Equipment

Local Cities and Counties
- Local and other Fire Vehicles

Local Cities and Counties
- Local Police and Sheriff Dept Vehicles

City of Corona
- Corona TMC

Existing

Planned
Stakeholder: City of Corona
Architecture Element: Corona TMC Roadside Equipment
Architecture Flows Diagram
Stakeholder: City of Fontana
Architecture Element: Fontana Emergency Vehicles
Interconnect Diagram

- Caltrans D-8
  - Caltrans D-8 Signal Ops Roadside Equipment

- City of Fontana
  - Fontana Police Dispatch Center

- City of Fontana
  - Fontana TMC Roadside Equipment

- City of Fontana
  - Fontana Emergency Vehicles

Existing
Planned
Stakeholder: City of Fontana
Architecture Element: Fontana Emergency Vehicles

Architecture Flows Diagram

- Emergency dispatch response
- Incident status
- Emergency dispatch requests

- Local signal preemption request

 existing
planned
Stakeholder: City of Fontana
Architecture Element: Fontana Police Dispatch
Interconnect Diagram

- City of Fontana - Fontana Traveler Information
- California Highway Patrol (CHP) - CHP CAD System
- Caltrans D-3 - Caltrans D-3 Signal Ops
- City of Fontana - Fontana TMC
- Caltrans D-8 - Caltrans D-8 TMC
- TV, radio and other media outlets (including media)
- City of Corona - Corona TMC
- Riverside County Transportation Co. - Riverside Freeway Service Patrol
- Local Cities and Counties - Local Police and Sheriff Departments Systems
- Neighbor Agencies - Border Region Interfaces
- City of Fontana - Fontana Police Dispatch Center
- Local Cities and Counties - Local and other Fire Departments Systems
- San Bernardino Associated Government - San Bernardino Freeway Service Patrol
- Local Cities and Counties - Local City and County Signal Systems
- Neighbor Agencies - Arterial Traffic Data Exchange
- City of Fontana - Fontana Emergency Vehicles
- City of Temecula - Temecula TMC

- Iteris, Inc. -

Page F-34
June 30, 2005
Stakeholder: City of Fontana
Architecture Element: Fontana Police Dispatch
Architecture Flows Diagram

- City of Fontana
  - Fontana TMC
  - Fontana Police Dispatch Center
- City of Temecula
  - Temecula TOC
- Neighbor Agencies
  - San Bernardino Freeway Service Patrol
  - Riverside Freeway Service Patrol
  - San Bernardino Associated Governments
  - Riverside County Transportation Commission
- Local Cities and Counties
  - Local Police and Sheriff Departments
  - Local Cities and Counties
  - San Bernardino County
  - Riverside County

- Emergency Route Request
- Emergency Route
- Traffic Images
- Incident Command Information Coordination
- Incident Report
- Incident Response Coordination
- Emergency Dispatch Requests
- Emergency Dispatch Response
- Incident Status
- Incident Command Information Coordination
- Traffic Images
- Incident Command Information Coordination
- Traffic Images
- Incident Command Information Coordination
- Traffic Images
- Incident Command Information Coordination
- Traffic Images

- Existing
- Planned
Stakeholder: City of Fontana
Architecture Element: Fontana TMC
Interconnect Diagram
Stakeholder: City of Fontana
Architecture Element: Fontana TMC

Architecture Flows Diagram
Stakeholder: City of Fontana
Architecture Element: Fontana TMC Roadside Equipment

Interconnect Diagram

Railroad Operators
Rail Grade Crossing Warning Eqpt.

City of Fontana
Fontana Emergency Vehicles

Omnitran
Omnitran Transit Vehicles

City of Fontana
Fontana TMC Roadside Equipment

Local Cities and Counties
Municipal and small transit agencies
vehicles

City of Fontana
Fontana TMC

Existing

- Planned

- Iteris, Inc.

Page F-38
June 30, 2005
Stakeholder: City of Fontana
Architecture Element: Fontana TMC Roadside Equipment

Architecture Flows Diagram

City of Fontana
Fontana TMC

Railroad Operators
Rail Grade Crossing Warning Eqpt.

City of Fontana
Fontana Emergency Vehicles

City of Fontana
Fontana TMC Roadside Equipment

Omnitrans
Omnitrans Transit Vehicles

Local Cities and Counties
Municipal and small transit agencies vehicles

Existing
Planned
Stakeholder: City of Fontana
Architecture Element: Fontana Traveler Information

Interconnect Diagram

- Partners for Advanced Transit and High... Performance Monitoring System (PeMS)
- Caltrans D-8 Maintenance and Construction Mgmt System
- TV, radio and other media outlets (Int... Media
- Existing
- Planned
- City of Fontana Fontana TMC
- City of Fontana Fontana Traveler Information
- City of Fontana Fontana Police Dispatch Center
- Public/Private Information Service Pr... Regional Traveler Information Service Providers
- General Public User Personal Computing Devices
- Existing
- Planned

Iteris, Inc.

Page F-40
June 30, 2005
Stakeholder: City of Fontana
Architecture Element: Fontana Traveler Information

Architecture Flows Diagram

- Caltrans D-8 Maintenance and Construction Mgmt System
- City of Fontana Fontana TMC
- IV, radio and other media outlets (int... Media

- Partners for Advanced Transit and Hi... Performance Monitoring System (PeMS)
- City of Fontana Fontana Traveler Information
- Public/Private Information Service Pr... Regional Traveler Information Service Providers

- City of Fontana Fontana Police Dispatch Center
- General Public User Personal Computing Devices

- Current asset restrictions
- Maint and const work plans
- Roadway maintenance status
- Work zone information

- ISP coordination
- Traveler information for media
- External reports
- Media information request
- ISP coordination
- Incident information
- Broadcast information

- Traveler archive data
- Archive requests
- Archive status
- ISP coordination
- ISP coordination
- Planned
- Existing

Iteris, Inc.

Page F-41
June 30, 2005
Stakeholder: City of Temecula
Architecture Element: Temecula TOC

Interconnect Diagram

- City of Temecula
- Temecula TOC
- Neighbor Agencies
  - Arterial Traffic Data Exchange
- Local Cities and Counties
  - Local City and County Signal Systems
- Caltrans D-8
  - Caltrans TMC Data Exchange
- San Bernardino Associated Government
  - San Bernardino Freeway Service Patrol
- California Highway Patrol (CHP)
  - CHP CAD System
- Riverside County Transportation Co.
  - Riverside Freeway Service Patrol
- Caltrans D-8
  - Caltrans D-8 TMC
- Riverside Transit Agency (RTA)
  - RTA Fixed Route
- City of Fontana
  - Fontana Police Dispatch Center
- City of Temecula
  - Temecula TOC Roadside Equipment

Existing
Planned
Stakeholder: City of Temecula
Architecture Element: Temecula TOC
Architecture Flows Diagram
Stakeholder: City of Temecula
Architecture Element: Temecula TOC Roadside Equipment

Interconnect Diagram

- **Riverside Transit Agency (RTA)**
  - RTA Transit Vehicles

- **Local Cities and Counties**
  - Local and other Fire Vehicles

- **Local Cities and Counties**
  - Local Police and Sheriff Dept Vehicles

- **City of Temecula**
  - Temecula TOC Roadside Equipment

- **City of Temecula**
  - Temecula TOC

Existent

Planned
Stakeholder: City of Temecula
Architecture Element: Temecula TOC Roadside Equipment
Architecture Flows Diagram
Stakeholder: **General Public**  
Architecture Element: **User Personal Computing Devices**  

**Interconnect Diagram**

- Stakeholder: General Public
- Architecture Element: User Personal Computing Devices

Interconnect Diagram:

- Public/Private Information Service Providers
- Regional Traveler Information Service Providers
- City of Fontana
- Fontana Traveler Information
- TV, radio and other media outlets (Internal Media)
- General Public
- User Personal Computing Devices

Existing
Stakeholder: General Public
Architecture Element: User Personal Computing Devices

Architecture Flows Diagram

Public/Private Information Service Providers
Regional Traveler Information Service providers

City of Fontana
Fontana Traveler Information

Existing

TV, radio and other media outlets (Including Media)

General Public
User Personal Computing Devices

broadcast information

broadcast information

broadcast information
Stakeholder: Local Cities and Counties
Architecture Element: Local and other Fire Departments Systems

Interconnect Diagram

- California Highway Patrol (CHP)
  - CHP CAD System
- Caltrans D-8
  - Caltrans D-8 TMC
- City of Fontana
  - Fontana Police Dispatch Center
- City of Corona
  - Corona TMC
- City of Temecula
  - Temecula TOC
- San Bernardino Associated Government
  - San Bernardino Freeway Service Patrol
- Riverside County Transportation Commission
  - Riverside Freeway Service Patrol
- Local Cities and Counties
  - Local City and County Signal Systems
  - Local and other Fire Departments Systems
- Local Cities and Counties
  - Caltrans D-8 Signal Ops
- Local Cities and Counties
  - Local and other Fire Vehicles
- Neighbor Agencies
  - Arterial Traffic Data Exchange
  - Border Region Interfaces
- Local Cities and Counties
  - San Bernardino Freeway Service Patrol

• Iteris, Inc. •

Page F-48
June 30, 2005
Stakeholder: Local Cities and Counties
Architecture Element: Local and other Fire Departments Systems

Architecture Flows Diagram

- Local Cities and Counties
  - Local Police and Sheriff Departments Systems
  - California Highway Patrol (CHP)
    - CHP CAD System
  - City of Temecula
    - Temecula TOC
  - Neighbor Agencies
    - Border Region Interfaces
      - Arterial Traffic Data Exchange

- Local Cities and Counties
  - Local and other Fire Departments Systems

- Local Cities and Counties
  - Local City and County Signal Systems
    - San Bernardino Associated Governments (SANBAG)
      - San Bernardino Freeway Service Patrol
    - Riverside County Transportation Commission (RCTC)
      - Riverside Freeway Service Patrol

- Local Cities and Counties
  - Local and other Fire Vehicles
    - City of Fontana
      - Fontana Police Dispatch Center
    - Caltrans D-8
      - Caltrans D-8 Signal Ops

- Local Cities and Counties
  - Local City and County Signal Systems

- Local Cities and Counties
  - Local and other Fire Vehicles

- Remote and Other Media Outlets
  - Media
    - Riverside County Transportation Commission (RCTC)
      - Riverside Freeway Service Patrol

- Existing
  - Planned

- Incident command information coordination
  - Incident report
  - Incident response coordination
  - Resource coordination

- Incident command information coordination
  - Emergency route request
  - Emergency routes
  - Traffic images

- Emergency route request
  - Emergency routes
  - Traffic images

- Existing
  - Planned

- Incident information
  - Incident information for media

- Incident command information coordination
  - Emergency dispatch requests
  - Emergency dispatch response
  - Emergency route request
  - Emergency routes
  - Traffic images

- Existing
  - Planned
Stakeholder: Local Cities and Counties
Architecture Element: Local and other Fire Vehicles

Interconnect Diagram
Stakeholder: Local Cities and Counties
Architecture Element: Local and other Fire Vehicles
Architecture Flows Diagram

- Emergency dispatch response
- Emergency dispatch requests
- Local signal preemption request
- Local signal preemption request
- Local signal preemption request
- Local signal preemption request

% Existing
% Planned
Stakeholder: Local Cities and Counties
Architecture Element: Local City and County Roadside Equipment

Interconnect Diagram

Railroad Operators
- Rail Grade Crossing Warning Eqpt.

Omnitrans
- Omnitrans Transit Vehicles

SunLine Transit Agency
- SunLine Transit Vehicles

Riverside Transit Agency (RTA)
- RTA Transit Vehicles

Local Cities and Counties
- Local City and County Roadside Equipment
- Local City and County Signal Systems

Local Cities and Counties
- Municipal and small transit agencies vehicles

Local Cities and Counties
- Local and other Fire Vehicles

Local Cities and Counties
- Local Police and Sheriff Dept Vehicles

Existing
- Planned
Stakeholder: Local Cities and Counties
Architecture Element: Local City and County Roadside Equipment
Architecture Flows Diagram

- Local Cities and Counties
  - Local City and County Signal Systems
    - Signal control status
    - Traffic flow
    - Traffic images
    - Signal control data
    - Traffic sensor control
    - Video surveillance control

- Railroad Operators
  - Rail Grade Crossing Warning Eqpt.
    - RFI operational status
    - Intersection blockage notification
    - Arriving train information
    - Track status
    - Local signal priority request

- Omnitrans
  - Omnitrans Transit Vehicles

- SunLine Transit Agency
  - SunLine Transit Vehicles

- Local Cities and Counties
  - Local City and County Roadside Equipment
    - Local signal priority request
    - Local signal preemption request

- Riverside Transit Agency (RTA)
  - RTA Transit Vehicles
    - Local signal priority request
    - Local signal preemption request

- Local Cities and Counties
  - Municipal and small transit agencies
    - Vehicles

- Local Cities and Counties
  - Local and other Fire Vehicles

- Local Cities and Counties
  - Local Police and Sheriff Dept Vehicles

- Iteris, Inc.
Stakeholder: Local Cities and Counties
Architecture Element: Local City and County Signal Systems
Interconnect Diagram

- Neighbor Agencies
  - Arterial Traffic Data Exchange

- Local Cities and Counties
  - Local and other Fire Departments Systems
  - Regional Traveler Information Service Providers

- Public/Private Information Service Providers
- Regional Traveler Information Service Providers

- Local Cities and Counties
  - Local City and County Signal Systems
  - Local Police and Sheriff Departments Systems

- Local Cities and Counties
  - Local and County Roadside Equipment
  - CHP CAD System

- California Highway Patrol (CHP)

- Caltrans D-8
  - Caltrans D-8 Maintenance and Construction Mgmt System

- City of Temecula
  - Temecula TOC

- City of Corona
  - Corona TMC

- City of Fontana
  - Fontana Police Dispatch Center
  - Fontana TMC

- City of Fontana
  - Fontana TMC

- City of Fontana
  - Fontana TMC

- Caltrans D-8
  - Caltrans D-8 Signal Ops

- Iteris, Inc.

Page F-54
June 30, 2005
Stakeholder: Local Cities and Counties
Architecture Element: Local City and County Signal Systems
Architecture Flows Diagram
Stakeholder: Local Cities and Counties
Architecture Element: Local Police and Sheriff Departments Systems
Interconnect Diagram
Stakeholder: Local Cities and Counties
Architecture Element: Local Police and Sheriff Departments Vehicles

Interconnect Diagram

Local Cities and Counties
- Local City and County Roadside Equipment

City of Temecula
- Temecula TOC Roadside Equipment

Local Cities and Counties
- Local Police and Sheriff Department Vehicles

City of Corona
- Corona TMC Roadside Equipment

Caltrans D-8
- Caltrans D-8 Signal Ops Roadside Equipment

- Existing
- Planned

• Iteris, Inc. •
Stakeholder: Local Cities and Counties
Architecture Element: Local Police and Sheriff Departments Vehicles

Architecture Flows Diagram

- Emergency dispatch response
- Incident status
- Emergency dispatch requests
- Local signal preemption request

Existing

Local Cities and Counties
Local Police and Sheriff Departments Systems

City of Temecula
Temecula TOC Roadside Equipment

City of Corona
Corona TMC Roadside Equipment

Caltrans D-8
Caltrans D-8 Signal Ops Roadside Equipment

Local Cities and Counties
Local City and County Roadside Equipment

Local Cities and Counties
Local Police and Sheriff Dept Vehicles

Existing

Planned
Stakeholder: Local Cities and Counties
Architecture Element: Municipal and small transit agencies systems

Interconnect Diagram
Stakeholder: Local Cities and Counties
Architecture Element: Municipal and small transit agencies vehicles

Interconnect Diagram

Local Cities and Counties
- Local City and County Roadside Equipment

Local Cities and Counties
- Municipal and small transit agencies systems

City of Corona
- Corona TMC Roadside Equipment

Local Cities and Counties
- Municipal and small transit agencies vehicles

Caltrans D-8
- Caltrans D-8 Signal Ops Roadside Equipment

City of Fontana
- Fontana TMC Roadside Equipment

Existing
Planned
Stakeholder: Local Cities and Counties
Architecture Element: Municipal and small transit agencies vehicles
Architecture Flows Diagram
Stakeholder: Local Jurisdictions
Architecture Element: Arterial Traffic Data Exchange

Interconnect Diagram

- Local Cities and Counties
  - Local City and County Signal Systems

- San Bernardino Associated Governments
  - San Bernardino Freeway Service Patrol

- Local Cities and Counties
  - Local and other Fire Departments Systems

- Neighbor Agencies
  - Arterial Traffic Data Exchange

- California Highway Patrol (CHP)
  - CHP CAD System

- Riverside County Transportation Co...
  - Riverside Freeway Service Patrol

- City of Temecula
  - Temecula TOC

- City of Corona
  - Corona TMC

- City of Fontana
  - Fontana Police Dispatch Center

- Caltrans D-8
  - Caltrans D-8 Signal Ops

- Caltrans D-8
  - Caltrans D-8 TMC

Planned

• Iteris, Inc. •

Page F-64
June 30, 2005
Stakeholder: Local Jurisdictions
Architecture Element: Arterial Traffic Data Exchange
Architecture Flows Diagram

- San Bernardino Associated Government
  - San Bernardino Freeway Service Patrol
    - Local Cities and Counties
      - Local and other Fire Departments Systems
        - Local Cities and Counties
          - Local Police and Sheriff Departments Systems

- California Highway Patrol (CHP)
  - CHP CAD System
    - Neighbor Agencies
      - Arterial Traffic Data Exchange
        - Riverside County Transportation Commission
          - Riverside Freeway Service Patrol
            - Local Cities and Counties
              - Local City and County Signal Systems

- Local Cities and Counties
  - City of Fontana
    - Local City and County Signal Systems
      - City of Corona
        - Caltrans D-8
          - Corona TMC

- City of Temecula
  - Temecula TOC
    - City of Fontana
      - Fontana TMC

Planned

- Traffic control coordination
- Traffic information coordination
- Incident command information coordination
- Incident response coordination
- Incident report
- Incident command information coordination
- Incident response coordination
- Incident report
- Incident command information coordination
- Incident response coordination
- Incident report
- Traffic control coordination
- Traffic information coordination
- Traffic control coordination
- Traffic information coordination
- Traffic control coordination
- Traffic information coordination
- Traffic control coordination
- Traffic information coordination

• Iteris, Inc. •

Page F-65
June 30, 2005
Stakeholder: **Metrolink**  
Architecture Element: **Metrolink Operations Center**  

**Interconnect Diagram**

- **Metrolink**
  - Metrolink Trains

- **Riverside County Transportation Co...**
  - North Main Corona Metrolink Station Pkg Mgmt System

- **Public/Private Information Service Pr...**
  - Regional Traveler Information Service Providers

- **Southern California Association of Go...**
  - Data Archive

- **Metrolink**
  - Metrolink Operations Center

- **Local Cities and Counties**
  - Municipal and small transit agencies systems

- **Local Cities and Counties**
  - Local Police and Sheriff Departments Systems

- **SunLine Transit Agency**
  - SunLine Fixed Route

- **TV, radio and other media outlets (Int...**
  - Media

- **Omnitrans**
  - Omnitrans Fixed Route

- **Riverside Transit Agency (RTA)**
  - RTA Fixed Route

- **Caltrans D-8**
  - Caltrans D-8 TMC

**Existing**
**Planned**
Stakeholder: Metrolink
Architecture Element: Metrolink Trains
Interconnect Diagram

Metrolink

Metrolink Operations Center

Metrolink

Metrolink Trains

Existing
Stakeholder: Metrolink
Architecture Element: Metrolink Trains
Architecture Flows Diagram

Metrolink
Metrolink Operations Center

- emergency notification
- request for bad tag list
- transit traveler request
- transit vehicle conditions
- transit vehicle location data
- transit vehicle schedule performance
- bad tag list
- transit schedule information
- transit traveler information

Metrolink
Metrolink Trains

Existing
Planned
Stakeholder: Neighbor Agencies
Architecture Element: Border Region Interfaces

Interconnect Diagram

- Local Cities and Counties
  - Local and other Fire Departments Systems
- City of Corona
  - Corona TMC
- City of Fontana
  - Fontana TMC
- Planned

- Local Cities and Counties
  - Local Police and Sheriff Departments Systems
- California Highway Patrol (CHP)
  - CHP CAD System
- Caltrans D-8
  - Caltrans D-8 Signal Ops
  - Caltrans D-8 TMC
- Caltrans U-D8
  - Caltrans U-D8 TMC
Stakeholder: Neighbor Agencies
Architecture Element: Border Region Interfaces
Architecture Flows Diagram

- California Highway Patrol (CHP)
  - CHP CAD System
  - Emergency plan coordination
  - Evacuation coordination
  - Incident command information coordination
  - Incident report
  - Incident response coordination
  - Transportation system status

- Caltrans D-8
  - Caltrans D-8 TMC
  - Traffic control coordination
  - Traffic information coordination

- City of Fontana
  - Fontana Police Dispatch Center
  - Incident command information coordination
  - Incident report
  - Incident response coordination
  - Traffic control coordination
  - Traffic information coordination

- Local Cities and Counties
  - Local and other Fire Departments Systems
  - Incident command information coordination
  - Incident report
  - Incident response coordination
  - Resource coordination

- City of Corona
  - Corona TMC
  - Incident command information coordination
  - Incident report
  - Incident response coordination
  - Transportation system status

- Planned

• Iteris, Inc. •

Page F-71
June 30, 2005
Stakeholder: Nevada DOT (NDOT)
Architecture Element: Nevada DOT (NDOT) ATMS

Interconnect Diagram

Caltrans D-8
Caltrans D-8 TMC

Nevada DOT (NDOT)
Nevada DOT (NDOT) ATMS

Planned
Stakeholder: Nevada DOT (NDOT)
Architecture Element: Nevada DOT (NDOT) ATMS

Architectural Flows Diagram

Caltrans D-8
Caltrans D-8 TMC

Nevada DOT (NDOT)
Nevada DOT (NDOT) ATMS

Traffic control coordination
Traffic information coordination

Planned
Stakeholder: Omnitrans
Architecture Element: Omnitrans Fixed Route
Interconnect Diagram
Stakeholder: Omnitrans
Architecture Element: Omnitrans Fixed Route
Architecture Flows Diagram
Stakeholder: Omnitrans
Architecture Element: Omnitrans Paratransit
Interconnect Diagram
Stakeholder: Omnitrans
Architecture Element: Omnitrans Paratransit

Architecture Flows Diagram

- Southern California Association of Governments
  - Data Archive
  - Transit archive data
  - Archive requests
  - Archive status

- Local Cities and Counties
  - Municipal and small transit agencies systems
  - Transit fare coordination

- Riverside Transit Agency (RTA)
  - RTA Paratransit
  - Transit fare coordination

- SunLine Transit Agency
  - SunLine Paratransit
  - Transit fare coordination

- Omnitrans
  - Omnitrans Fixed Route
  - Transit service coordination
  - Transit vehicle operator instructions
  - Transit vehicle location data

- Omnitrans
  - Omnitrans Transit Vehicles

- Omnitrans
  - Omnitrans Paratransit

- SunLine Transit Agency
  - SunLine Fixed Route

- Existing
  - Planned

• Iteris, Inc. •

Page F-77
June 30, 2005
Stakeholder: Omnitrans
Architecture Element: Omnitrans Transit Vehicles

Interconnect Diagram

- Local Cities and Counties
  - Local City and County Roadside Equipment

- Omnitrans
  - Omnitrans Paratransit

- Omnitrans
  - Omnitrans Transit Vehicles

- Omnitrans
  - Omnitrans Fixed Route

- Caltrans D-8
  - Caltrans D-8 Signal Ops Roadside Equipment

- City of Fontana
  - Fontana TMC Roadside Equipment

Existing
Planned
Stakeholder: Partners for Advanced Transit and Highways (PATH)
Architecture Element: Performance Monitoring System (PeMS)

Interconnect Diagram

- Public/Private Information Service Providers
- Regional Traveler Information Service Providers
- Southern California Association of Governments Data Archive
- Caltrans D-8
  - Signal Ops
- Partners for Advanced Transit and Highways
  - Performance Monitoring System (PeMS)
- Caltrans D-8
  - TMC
- City of Fontana
  - Fontana Traveler Information

Existing
Planned
Stakeholder: Partners for Advanced Transit and Highways (PATH)
Architecture Element: Performance Monitoring System (PeMS)

Architecture Flows Diagram

- Caltrans D-8
  - Caltrans D-8 TMC
  - Caltrans D-8 Signal Ops

- Partners for Advanced Transit and Highways (PATH)
  - Performance Monitoring System (PeMS)

- Public/Private Information Service Providers
  - Regional Traveler Information Service Providers

- City of Fontana
  - Fontana Traveler Information

- Southern California Association of Governments
  - Data Archive

Existing
- archive requests
- archive status
- traffic archive data
- traveler archive data
- archive coordination

Planned
- archive requests
- archive status
- traveler archive data
Stakeholder: Private Commercial Vehicle Owners
Architecture Element: Commercial Vehicles

Interconnect Diagram

Caltrans HQ

CVO Weigh Stations (including weigh-in-motion)

Private Commercial Vehicle Owners

Commercial Vehicles

Existing
Stakeholder: Private Commercial Vehicle Owners
Architecture Element: Commercial Vehicles
Architecture Flows Diagram

Caltrans HQ
  CVO Weigh Stations (including weigh-in-motion)

- tag data
- electronic screening request
- pass/pull-in
- request tag data

Private Commercial Vehicle Owners
  Commercial Vehicles

Existing
Stakeholder: **Private Tow Companies**  
Architecture Element: **Tow Trucks (FSP)**  

**Interconnect Diagram**
Stakeholder: Private Tow Companies
Architecture Element: Tow Trucks (FSP)
Architecture Flows Diagram
Stakeholder: Public/Private Information Service Providers
Architecture Element: Regional Traveler Information Service Providers

Interconnect Diagram

- Partners for Advanced Transit and High Technology (PATH) - Performance Monitoring System (PeMS)
- Riverside County Transportation Co. - North Main Corona Metrolink Station Pkg Mgmt System
- Southern California Association of Governmental Agencies - Data Archive
- Local Cities and Counties - Local City and County Signal Systems
- Public/Private Information Service Providers - Regional Traveler Information Service Providers
- Caltrans D-8 - Caltrans D-8 Maintenance and Construction Mgmt System
- Metrolink - Metrolink Operations Center
- Caltrans D-8 - Caltrans D-8 Signal Ops
- General Public - User Personal Computing Devices
- Caltrans D-8 - Caltrans D-8 TMC
- City of Fontana - Fontana Traveler Information
- TV, radio and other media outlets (Int... Media

- Iteris, Inc. -
Stakeholder: Public/Private Information Service Providers
Architecture Element: Regional Traveler Information Service Providers
Architecture Flows Diagram

- Caltrans D-8 Maintenance and Construction Mgmt System
- Caltrans D-8
- Caltrans D-8 TMC
- IV, radio and other media outlets (incl.
- Media
- Partners for Advanced Transit and Hi-
- Performance Monitoring System (PeMS)
- Public/Private Information Service Pr,
- Regional Traveler Information Service
- Providers
- Southern California Association of Go,
- Data Archive
- Riverside County Transportation Co,
- North Main Corona Metrolink Station
- Pkg Mgmt System
- Local Cities and Counties
- Local City and County Signal Systems
- Metrolink
- Metrolink Operations Center
- General Public
- User Personal Computing Devices
- Caltrans D-8
- Caltrans D-8 Signal Ops
- City of Fontana
- Fontana Traveler Information

- Existing
- Planned

Stakeholder:

- Public/Private Information Service Providers

Architecture Element:

- Regional Traveler Information Service Providers

Architecture Flows Diagram

- Caltrans D-8 Maintenance and Construction Mgmt System
- Caltrans D-8
- Caltrans D-8 TMC
- IV, radio and other media outlets (incl.
- Media
- Partners for Advanced Transit and Hi-
- Performance Monitoring System (PeMS)
- Public/Private Information Service Pr,
- Regional Traveler Information Service
- Providers
- Southern California Association of Go,
- Data Archive
- Riverside County Transportation Co,
- North Main Corona Metrolink Station
- Pkg Mgmt System
- Local Cities and Counties
- Local City and County Signal Systems
- Metrolink
- Metrolink Operations Center
- General Public
- User Personal Computing Devices
- Caltrans D-8
- Caltrans D-8 Signal Ops
- City of Fontana
- Fontana Traveler Information

- Existing
- Planned
Stakeholder: Railroad Operators  
Architecture Element: Rail Grade Crossing Warning Eqpt 
Interconnect Diagram

- Local Cities and Counties
  - Local City and County Roadside Equipment

- Caltrans D-8
  - Caltrans D-8 Signal Ops Roadside Equipment

- Railroad Operators
  - Rail Grade Crossing Warning Eqpt.

- City of Corona
  - Corona TMC Roadside Equipment

- City of Fontana
  - Fontana TMC Roadside Equipment

Existing
Stakeholder: Railroad Operators
Architecture Element: Rail Grade Crossing Warning Eqpt

Architecture Flows Diagram

Local Cities and Counties
Local City and County Roadside Equipment

City of Corona
Corona TMC Roadside Equipment

Caltrans D-8
Caltrans D-8 Signal Ops Roadside Equipment

Railroad Operators
Rail Grade Crossing Warning Eqpt.

City of Fontana
Fontana TMC Roadside Equipment

- Arriving train information
- Track status
- HRI operational status
- Intersection blockage notification

Existing
Written

Planned

Iteris, Inc.

Page F-89
June 30, 2005
Stakeholder: Riverside County Transportation Commission (RCTC)
Architecture Element: North Main Corona Metrolink Station Pkg Mgmt System

Interconnect Diagram

- Public/Private Information Service Providers
  - Regional Traveler Information Service Providers
- Southern California Association of Governmental Agencies
  - Data Archive
- Local Cities and Counties
  - Municipal and small transit agencies systems
- SunLine Transit Agency
  - SunLine Fixed Route
- Riverside County Transportation Commission
  - North Main Corona Metrolink Station Pkg Mgmt System
- Riverside Transit Agency (RTA)
  - RTA Fixed Route
- Metrolink
  - Metrolink Operations Center
- Omnitrans
  - Omnitrans Fixed Route
- TV, radio and other media outlets (int... Media

Iteris, Inc.

Page F-90
June 30, 2005
Stakeholder: Riverside County Transportation Commission (RCTC)
Architecture Element: North Main Corona Metrolink Station Pkg Mgmt System
Architecture Flows Diagram

- Southern California Association of Government
  Data Archive
  - parking archive data
  - archive requests
  - archive status

- TV, radio and other media outlets (Internet)
  Media
  - parking information
  - parking lot data request

- Riverside County Transportation Commission (RCTC)
  North Main Corona Metrolink Station Pkg Mgmt System
  - parking information
  - parking lot data request

- Public/Private Information Service Providers
  Regional Traveler Information Service Providers
  - parking information
  - parking lot data request

- Riverside Transit Agency (RTA)
  RTA Fixed Route
  - parking information
  - parking lot data request

- Metrolink
  Metrolink Operations Center
  - parking lot data request

- Omnitrans
  Omnitrans Fixed Route
  - Planned

- Local Cities and Counties
  Municipal and small transit agencies systems
  - parking information
  - parking lot data request

- SunLine Transit Agency
  SunLine Fixed Route
  - parking information
  - parking lot data request

- Planned
Stakeholder: Riverside County Transportation Commission (RCTC)
Architecture Element: Riverside County Call Boxes
Interconnect Diagram

San Bernardino Associated Government
Inland Empire Call Answering Center

Riverside County Transportation Commission
Riverside County Call Boxes

Existing
Stakeholder: Riverside County Transportation Commission (RCTC)
Architecture Element: Riverside County Call Boxes
Architecture Flows Diagram

San Bernardino Associated Government
Inland Empire Call Answering Center

Incident notification
Incident notification response

Riverside County Transportation Commission
Riverside County Call Boxes

Existing
<table>
<thead>
<tr>
<th>Stakeholder:</th>
<th>Riverside County Transportation Commission (RCTC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture Element:</td>
<td>Riverside County Smart Call Boxes</td>
</tr>
</tbody>
</table>

**Interconnect Diagram**

```
<table>
<thead>
<tr>
<th>Caltrans D-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caltrans D-8 TMC</td>
</tr>
</tbody>
</table>
```

```
<table>
<thead>
<tr>
<th>Riverside County Transportation Co...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riverside County Smart Call Boxes</td>
</tr>
</tbody>
</table>
```

Existing
Stakeholder: Riverside County Transportation Commission (RCTC)
Architecture Element: Riverside County Smart Call Boxes
Architecture Flows Diagram

Caltrans D-8
Caltrans D-8 TMC

Traffic flow - data collection and monitoring control

Riverside County Transportation Commission
Riverside County Smart Call Boxes

Existing
Planned
Stakeholder: Riverside County Transportation Commission (RCTC)
Architecture Element: Riverside Freeway Service Patrol

Interconnect Diagram

- Neighbor Agencies: Arterial Traffic Data Exchange
- Local Cities and Counties: Local and other Fire Departments Systems
- Riverside County Transportation Commission: Riverside Freeway Service Patrol
- California Highway Patrol (CHP): CHP CAD System
- City of Temecula: Temecula TOC
- City of Corona: Corona TMC
- City of Fontana: Fontana TMC, Fontana Police Dispatch Center
- San Bernardino Associated Government: San Bernardino Freeway Service Patrol
- Private Tow Companies: Tow Trucks (FSP)
- Private Tow Companies: Tow Trucks (FSP)
- Local Cities and Counties: Local Police and Sheriff Departments Systems
- Caltrans D-8: Caltrans D-8 TMC

Iteris, Inc.

Page F-96
June 30, 2005
Stakeholder: Riverside County Transportation Commission (RCTC)
Architecture Element: Riverside Freeway Service Patrol

Architecture Flows Diagram
Stakeholder: Riverside Transit Agency (RTA)
Architecture Element: RTA Fixed Route
Interconnect Diagram
Stakeholder: Riverside Transit Agency (RTA)
Architecture Element: RTA Fixed Route
Architecture Flows Diagram
Stakeholder: Riverside Transit Agency (RTA)
Architecture Element: RTA Paratransit

Architecture Flows Diagram

- RTA Transit Vehicles
  - Bad tag list
  - Fare management information
  - Transit vehicle operator instructions
  - Transit vehicle location data
  - Transit vehicle passenger and use data

- Southern California Association of Governments (SCAG)
  - Data Archive

- Riverside Transit Agency (RTA)
  - RTA Fixed Route

- Local Cities and Counties
  - Municipal and small transit agencies systems
  - Transit fare coordination

- Omnitran
  - Omnitran Paratransit
  - Transit fare coordination

- Omnitrans
  - Omnitrans Fixed Route
  - Transit fare coordination

Existing
Planned

- SunLine Transit Agency
  - SunLine Paratransit
  - Transit fare coordination

- SunLine Transit Agency
  - SunLine Fixed Route
  - Transit fare coordination

- Omnitrans
  - Omnitran Paratransit
  - Transit fare coordination

- Omnitran
  - Omnitrans Fixed Route
  - Transit fare coordination

- SCAG
  - Data Archive

- Riverside Transit Agency (RTA)
  - RTA Fixed Route
  - Transit fare coordination
Stakeholder: Riverside Transit Agency (RTA)
Architecture Element: RTA Transit Vehicles

Interconnect Diagram

Local Cities and Counties
- Local City and County Roadside Equipment

Caltrans D-8
- Caltrans D-8 Signal Ops Roadside Equipment

Local Cities and Counties
- Local Police and Sheriff Departments Systems

Riverside Transit Agency (RTA)
- RTA Paratransit

Riverside Transit Agency (RTA)
- RTA Transit Vehicles

Riverside Transit Agency (RTA)
- RTA Fixed Route

City of Temecula
- Temecula TOC Roadside Equipment

City of Corona
- Corona TMC Roadside Equipment

- Iteris, Inc. -
Stakeholder: Riverside Transit Agency (RTA)
Architecture Element: RTA Transit Vehicles
Architecture Flows Diagram

Riverside Transit Agency (RTA)

- RTA Fixed Route
- RTA Paratransit
- RTA Transit Vehicles

Caltrans D-8
- Caltrans D-8 Signal Ops Roadside Equipment

Local Cities and Counties
- Local Police and Sheriff Departments Systems
- Local City and County Roadside Equipment

City of Temecula
- Temecula TOC Roadside Equipment

City of Corona
- Corona TMC Roadside Equipment

- Emergency notification
- Transit vehicle location data
- Bad tag list
- Emergency acknowledge
- Remote vehicle disable
- Transit schedule information
- Transit traveler information
- Transit vehicle operator authentication update
- Transit vehicle operator instructions

- Local signal priority request
- Secure area sensor data
- Secure area surveillance data
- Emergency acknowledge
- Secure area sensor control
- Secure area surveillance control

- Existing
- Planned

- Riverie Transit Agency (RTA)
- Caltrans D-8
- Local Cities and Counties
- City of Temecula
- City of Corona

- Riverside Transit Agency (RTA)
- Caltrans D-8
- Local Cities and Counties
- City of Temecula
- City of Corona

June 30, 2005
Stakeholder: San Bernardino Associated Governments (SANBAG)
Architecture Element: Inland Empire Call Answering Center

Interconnect Diagram

- Riverside County Transportation Commission
  - Riverside County Call Boxes

- California Highway Patrol (CHP)
  - CHP CAD System

- San Bernardino Associated Governments
  - San Bernardino County Call Boxes

- San Bernardino Associated Governments
  - Inland Empire Call Answering Center

Existing
Stakeholder: San Bernardino Associated Governments (SANBAG)
Architecture Element: Inland Empire Call Answering Center

Architecture Flows Diagram

- Riverside County Transportation Commission
  - Riverside County Call Boxes
  - incident notification
  - incident notification response

- California Highway Patrol (CHP)
  - CHP CAD System
  - incident report
  - resource deployment status
  - incident notification

- San Bernardino Associated Governments
  - San Bernardino County Call Boxes
  - incident notification response

- San Bernardino Associated Governments
  - Inland Empire Call Answering Center
  - incident notification response

Existing
Stakeholder: San Bernardino Associated Governments (SANBAG)
Architecture Element: San Bernardino County Call Boxes

Interconnect Diagram

San Bernardino Associated Governments
Inland Empire Call Answering Center

San Bernardino Associated Governments
San Bernardino County Call Boxes

Existing
Stakeholder: San Bernardino Associated Governments (SANBAG)
Architecture Element: San Bernardino County Call Boxes
Architecture Flows Diagram

San Bernardino Associated Governments...
Inland Empire Call Answering Center

Incident notification
Incident notification response

San Bernardino Associated Governments...
San Bernardino County Call Boxes

Existing
Stakeholder: San Bernardino Associated Governments (SANBAG)
Architecture Element: San Bernardino County Smart Call Boxes

Interconnect Diagram

Caltrans D-8
Caltrans D-8 TMC

San Bernardino Associated Governments...
San Bernardino County Smart Call Boxes

Existing
Stakeholder: San Bernardino Associated Governments (SANBAG)
Architecture Element: San Bernardino County Smart Call Boxes
Architecture Flows Diagram

Caltrans D-8
  Caltrans D-8 TMC

San Bernardino Associated Governments...
  San Bernardino County Smart Call Boxes

Existing

Traffic flow
data collection and monitoring control
Stakeholder: San Bernardino Associated Governments (SANBAG)
Architecture Element: San Bernardino Freeway Service Patrol

Interconnect Diagram

- Neighboring Agencies
  - Arterial Traffic Data Exchange

- Local Cities and Counties
  - Local Police and Sheriff Departments Systems
  - Riverside County Transportation Co...
  - San Bernardino Associated Government
    - San Bernardino Freeway Service Patrol
  - California Highway Patrol (CHP)
    - CHP CAD System
  - Riverside Freeway Service Patrol

- City of Temecula
  - Temecula TOC

- City of Corona
  - Corona TMC

- City of Fontana
  - Fontana TMC

- Planned

Private Tow Companies
- Tow Trucks (FSP)
- Local and other Fire Departments Systems

- Planned

- Iteris, Inc.

Page F-110
June 30, 2005
Stakeholder: San Bernardino Associated Governments (SANBAG)
Architecture Element: San Bernardino Freeway Service Patrol
Architecture Flows Diagram

- California Highway Patrol (CHP)
  - CHP CAD System
    - Incident command information coordination
    - Incident report
    - Incident response coordination
    - Resource coordination

- Local Cities and Counties
  - Local and other Fire Departments Systems
    - Traffic images

- San Bernardino Associated Governments
  - San Bernardino Freeway Service Patrol
    - Traffic images
    - Incident command information coordination

- Neighbor Agencies
  - Arterial Traffic Data Exchange
    - Traffic images

- Private Tow Companies
  - Tow Trucks (FSP)

- Local Cities and Counties
  - Local Police and Sheriff Departments Systems
    - Traffic images
    - Incident command information coordination

- Riverside County Transportation Co.
  - Riverside Freeway Service Patrol
    - Traffic images
    - Incident command information coordination

- City of Temecula
  - Temecula TOC
    - Traffic images
    - Incident command information coordination

- City of Corona
  - Corona TMC
    - Traffic images
    - Planned

- City of Fontana
  - Fontana TMC
    - Traffic images
    - Incident command information coordination

- Caltrans D-8
  - Caltrans D-8 TMC
    - Traffic images
    - Incident command information coordination

- Caltrans D-8
  - Fontana Police Dispatch Center
    - Traffic images
    - Incident command information coordination
Stakeholder: Southern California Association of Governments (SCAG)
Architecture Element: Regional Data Archive Repository

Interconnect Diagram

- California Department of Motor Vehicles (DMV)
  - CVO Administration (PrePass)

- Omnitrans
  - Omnitrans Fixed Route

- Partners for Advanced Transit and High Technology (PeMS)
  - Performance Monitoring System (PeMS)

- Riverside County Transportation Co.
  - North Main Corona Metrolink Station
  - Pkg Mgmt System

- Public/Private Information Service Providers
  - Regional Traveler Information Service Providers

- Southern California Association of Governments (SCAG)
  - Data Archive

- Local Cities and Counties
  - Municipal and small transit agencies systems

- Caltrans HQ
  - Caltrans CVO Administration (Pre-pass)

- SunLine Transit Agency
  - SunLine Paratransit

- Caltrans D-8
  - Caltrans D-8 TMC

- Metrolink
  - Metrolink Operations Center

- Riverside Transit Agency (RTA)
  - RTA Paratransit

- SunLine Transit Agency
  - SunLine Fixed Route

- Omnitrans
  - Omnitrans Paratransit

- Planned
Stakeholder: SunLine Transit Agency
Architecture Element: SunLine Fixed Route
Interconnect Diagram

- SunLine Transit Agency
  - SunLine Transit Vehicles

- Riverside County Transportation Co-
  - North Main Corona Metrolink Station
  - Pkg Mgmt System
  - Data Archive

- SunLine Transit Agency
  - SunLine Fixed Route

- Local Cities and Counties
  - Municipal and small transit agencies
    - systems

- Local Cities and Counties
  - Local Police and Sheriff Departments
    - Systems

- SunLine Transit Agency
  - SunLine Paratransit

- Riverside Transit Agency (RTA)
  - RTA Paratransit

- Riverside Transit Agency (RTA)
  - RTA Fixed Route

- Metrolink
  - Metrolink Operations Center

- Omnitrans
  - Omnitrans Fixed Route
  - Media
  - Omnitrans Paratransit

- TV, radio and other media outlets (Int...

- Southern California Association of Go-
  - Data Archive

- Existing
- Planned

• Iteris, Inc. •

Page F-114
June 30, 2005
Stakeholder: SunLine Transit Agency
Architecture Element: SunLine Paratransit

Architecture Flows Diagram

- SunLine Transit Agency
  - SunLine Transit Vehicles
  - SunLine Paratransit

- Southern California Association of Governments
  - Data Archive

- SunLine Transit Agency
  - SunLine Fixed Route

- Local Cities and Counties
  - Municipal and small transit agencies systems

- Riverside Transit Agency (RTA)
  - RTA Paratransit
  - RTA Fixed Route

- Omnitran
  - Omnitran Paratransit

- Omnitran
  - Omnitran Fixed Route

- Transit archive data
- Archive requests
- Archive status
- Transit fare coordination
- Transit service coordination
- Transit traveler information coordination
- Transit vehicle passenger and use data
- Transit vehicle location data
- Transit vehicle schedule performance

- Bad tag list
- Fare management information
- Fare and payment status
- Request for bad tag list
- Transit vehicle operator instructions

- Existing
- Planned

- Iteris, Inc.

June 30, 2005
Stakeholder: SunLine Transit Agency
Architecture Element: SunLine Transit Vehicles

Interconnect Diagram

- Local Cities and Counties
  - Local City and County Roadside Equipment
- SunLine Transit Agency
  - SunLine Paratransit
  - SunLine Transit Vehicles
  - SunLine Fixed Route
- Caltrans D-8
  - Caltrans D-8 Signal Ops Roadside Equipment
- Local Cities and Counties
  - Local Police and Sheriff Departments Systems

Existing
Planned
Stakeholder: SunLine Transit Agency
Architecture Element: SunLine Transit Vehicles
Architecture Flows Diagram
Stakeholder: TV, radio and other media outlets (Internet, kiosks, etc.)
Architecture Element: Media
Interconnect Diagram

- City of Fontana
  - Fontana Traveler Information
- SunLine Transit Agency
  - SunLine Fixed Route
- City of Corona
  - Corona TMC
- General Public
  - User Personal Computing Devices
- Caltrans D-8
  - Caltrans D-8 TMC
- City of Fontana
  - Fontana Police Dispatch Center
- Omnitrans
  - Omnitrans Fixed Route
- Riverside Transit Agency (RTA)
  - RTA Fixed Route
- Caltrans D-8
  - Caltrans D-8 Maintenance and Construction Mgmt System
- Riverside County Transportation Co.
  - North Main Corona Metrolink Station Pkg Mgmt System
- Public/Private Information Service Providers
  - Regional Traveler Information Service Providers
- Local Cities and Counties
  - Local and other Fire Departments Systems
- Municipal and small transit agencies systems
- Metrolink
  - Metrolink Operations Center
- TV, radio and other media outlets (Int.
  - Media
- California Highway Patrol (CHP)
  - CHP CAD System
- Local Cities and Counties
  - Local Police and Sheriff Departments Systems

- Existing
- Planned

Iteris, Inc.

Page F-120
June 30, 2005
Stakeholder: TV, radio and other media outlets (Internet, kiosks, etc.)

Architecture Element: Media

Architecture Flows Diagram