

April 9, 2003

San Gabriel Valley

P i l o t P r o j e c t

Information Exchange Network (IEN)
System Administrator Training
Day 1

Final



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IEN System Administrator's Training

Part 1

San Gabriel Valley Pilot Project

Countywide Information Exchange Network



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April 9, 2003

Countywide Information Exchange Network

Training Agenda - Part 1

- Overview of administrative responsibilities
- Administrative resources
- IEN security
- System configuration manager
 - Managing user accounts
 - Configuring entities
 - Managing resources and resource privileges
 - Creating scenario plans
 - Building congestion links
 - Archiving IEN data



Training Agenda - Part 1 (cont.)

- ATMS Database Administrator
 - Customizing MICE
 - Database configuration reports
 - Configuring data retention settings



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Training Agenda - Part 2

- IEN Network Components
- IEN System Components
- Maintenance Activities
 - Domain User Account Configuration
 - E-mail Configuration
 - System and Database Backups
- Troubleshooting IEN Connections
- Day 2 Wrap Up



Administration Overview

Administrative roles within the IEN:

Role	Description
IEN Administrators	Perform tasks specific to the IEN software, including tasks that may require knowledge of traffic engineering principles and devices.
System/Network Administrators	Perform standard system and networking administration tasks. These tasks could be delegated to local agency ITS departments.



IEN Administrators

- IEN administrators are responsible for supporting and maintaining the IEN software.
- IEN administrative duties include:
 - Adding and removing users and resources
 - Configuring security settings governing access to resources
 - Setting application configuration parameters
- IEN administrative tasks are covered in Part 1 of the IEN System Administrator's Training.



System/Network Administrators

- System/Network administrators are responsible for maintaining the systems and network components that support the IEN software.
- System/Network administrative duties include:
 - Monitoring system and network status
 - Managing the IEN E-mail system
 - Performing system backups
- System/Network administrative tasks are covered in Part 2 of the IEN System Administrator's Training.



Administrative Resources

- IEN System Database Reference Manual
- IEN Detailed Design Document (DDD) Volume Set
- IEN System Overview Manual
- IEN System Operators Manual
- IEN System Technical Reference Manual
- Online Help Screens



Administrative Applications and Tools

- IEN System Configuration Manager
- ATMS Database Administration
- IEN Component Viewer
- COTS software:
 - WhatsUp Gold
 - Windows 2000 Active Directory Users and Computers console
 - Microsoft Exchange Administrator
 - Microsoft Cluster Administrator and Oracle Failsafe Manager



IEN Security Overview

- Security within the IEN is based on two concepts:
 - Authentication
 - Access control
- Each IEN user will have a unique, password-protected user account. A valid user name and password are required in order to log onto any of the IEN systems.
- A user's access to resources and functions within the system will depend upon privileges assigned to their user account. Users will only be allowed to view the data and execute the operations for which they have the necessary set of privileges.



User Login

- The IEN takes advantage of the Windows login system to validate user account information.
- After a user logs onto a workstation, the workstation passes the security information along to the IEN.
- Users will not need to separately log onto the IEN applications.



IEN Access Privileges

- The access privileges granted to a user account determine the set of applications and functions that are available during the current login session.
- Types of privileges within the IEN:
 - ATMS domain group privileges
 - IEN resource privileges



ATMS Domain Group Privileges

- ATMS domain group privileges determine the broad level functionality available to an IEN user.
- The privileges are assigned through membership in one of the ATMS domain groups.
- The privileges associated with each ATMS domain group are documented in the IEN System Administrator's Guide.



ATMS Domain Groups

Group	Description
ATMS Supervisors	ATMS Supervisors have full access to all the IEN applications. These users are responsible for configuring the IEN components and providing high-level management over daily operations within the IEN.
ATMS Operators	ATMS Operators are the primary users of the system and are responsible for entering MICE incidents and monitoring TCS status information. These users are not able to configure the map icons and have only limited read-only access to administrative applications.



ATMS Domain Groups (cont.)

Group	Description
ATMS Editors	ATMS Editors are specialized user accounts very similar to ATMS Operators with two important exceptions: <ul style="list-style-type: none">– They can configure map layer controls– They cannot create or modify <i>MICE</i> records.
ATMS Guests	ATMS Guests have read-only access to all the non-administrative IEN applications.



IEN Resource Privileges

- Resource privileges determine a user's access to resources within the IEN and the actions that the user may take on those resources.
- Resource privileges are configured within the IEN System Configuration Manager.



IEN Resource Privileges (cont.)

Privileges	Description
PRIVILEGE_ADMIN	Grants the ability to administrate a particular entity.
PRIVILEGE_CREATE	Grants the ability to add entities of a particular type (e.g. intersections, detectors, users, etc ...) to the IEN.
PRIVILEGE_DELETE	Grants the ability to remove a particular entity from the IEN.
PRIVILEGE_EXECUTE	Grants the ability to send commands to a particular entity or activate a particular scenario plan.
PRIVILEGE_READ	Grants the ability to view data from a particular entity.
PRIVILEGE_WRITE	Grants the ability to write data to a particular entity.



IEN Resource Privileges (cont.)

- Administrators will only to be concerned with the following two privileges for the initial implementation of the IEN:
 - PRIVILEGE_READ
 - PRIVILEGE_EXECUTE
- The remaining privileges are available to support the expansion of the IEN to other types of resources.



PRIVILEGE_EXECUTE

- Users may perform the following actions on resources for which they hold the **PRIVILEGE_EXECUTE**:
 - Issue control mode or timing plan change commands to an intersection or section.
 - Activate or deactivate a scenario plan.
 - Acknowledge or clear IEN alarm messages from an intersection.



PRIVILEGE_READ

- Users must hold the PRIVILEGE_READ for an intersection in order to view alarm messages generated by the device.



IEN Configuration Data

- IEN configuration information is centrally maintained within the corridor database located on the SGV Corridor Server.
- The IEN System Configuration Manager and ATMS Database Administration applications are used to modify IEN configuration information.



IEN Configuration Data (cont.)

- Due to the bandwidth limitations of the network, each workstation maintains a local copy of frequently used configuration information.
- The local and central databases are synchronized as needed by the IEN applications.
- Users can synchronize the databases from the Start Menu (Start → Programs → Information Exchange Network → Administrative Tools → Synchronize IEN data).



IEN System Configuration Manager



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System Configuration Manager Access Privileges

- The *System Configuration Manager* application is available to members of the ATMS Supervisors domain group.



System Configuration Manager Overview

- The *IEN System Configuration Manager* is used to access and modify the configuration data values maintained within the SGV corridor database.
- The *System Configuration Manager* consists of a series of tabbed forms where each form is used to configure a particular entity within the IEN.



System Configuration Manager Overview (cont.)

System Configuration Manager - [Main : Form]

File Help

Add/Modify Scenarios Add/Modify Link Detectors IEN Reports Archive Add/Modify Entity
Add/Modify IEN User Add/Modify IEN Group Add/Modify IEN Resource Group Add/Modify Resource Privileges

Login Name Lookup: Administrator Refresh

Login Name: Administrator* CorridorID: SGV*
Full Name: Administrative Account SiteID: LACDPW*
SystemID: LA County System*
Entity Number:

Add Modify Delete

Group Memberships

Member of:
Pasadena IEN Operators

Not member of:
Corridor Scenario Coordinators
IEN Services
LA County IEN Administrators
LA County IEN Operators
LA County IEN Supervisors
LA County IEN TCS Operator

<- Add Remove ->



System Configuration Manager Forms

Form	Description
Add/Modify IEN Entity	Configures TCS devices (intersections, sections, and detectors etc.) within the SGV Corridor Database.
Add/Modify IEN Resource Group	Provides a mechanism to group IEN resources (TCS devices and scenarios) in preparation for privilege configuration.
Add/Modify IEN Resource Privileges	Configures user access to IEN resources.
Add/Modify IEN User	Configures IEN user accounts and their group memberships.
Add/Modify IEN User Group	Provides a mechanism to group IEN user accounts.



System Configuration Manager Forms (cont.)

Form	Description
Add/Modify Link Detectors	Configures congestion links entities, which can then be displayed through the <i>ATMS Map</i> application.
Add/Modify Scenarios	Configures IEN scenario plans.
Archive	Configures the archival of dynamic TCS device and alarm data.
IEN Reports	Provides a series of database configuration and archive reports.



Add/Modify IEN Entity Form

System Configuration Manager - [Main : Form]

File Help

Add/Modify IEN User Add/Modify IEN Group Add/Modify IEN Resource Group Add/Modify Resource Privileges
Add/Modify Scenarios Add/Modify Link Detectors IEN Reports Archive Add/Modify Entity

Select Entity Type:
Entity Type: Refresh

Filters:
CorridorID: SiteID: SystemID: Reset

Corridor	Site	System	Entity Name	Desc
SGV	Pasadena	Pasadena Series 2000 system	int001	Reinitialized
SGV	Pasadena	Pasadena Series 2000 system	int002	RAYO @ TEST
SGV	Pasadena	Pasadena Series 2000 system	int100	Lincoln Ave. @ Montana S
SGV	Pasadena	Pasadena Series 2000 system	int101	Fair Oaks Ave. @ Montan
SGV	Pasadena	Pasadena Series 2000 system	int103	LINCOLN AV. @ WASHINK
SGV	Pasadena	Pasadena Series 2000 system	int104	WASHINGTON BL. @ GLEIF
SGV	Pasadena	Pasadena Series 2000 system	int105	WASHINGTON BL. @ FAIF
SGV	Pasadena	Pasadena Series 2000 system	int106	WASHINGTON BL. @ RAY
SGV	Pasadena	Pasadena Series 2000 system	int107	WASHINGTON BL. @ MAR
SGV	Pasadena	Pasadena Series 2000 system	int108	WASHINGTON BL. @ LOS
SGV	Pasadena	Pasadena Series 2000 system	int109	WASHINGTON BL. @ EL M
SGV	Pasadena	Pasadena Series 2000 system	int110	LAKE AV. @ WASHINGTO

Count: 291

Add Modify Delete

The *Add/Modify IEN Entity* form is used to configure intersection, section, and detector devices within the corridor database.



Add/Modify IEN Entity Fields

Fields	Description
Entity Type	Filters the corridor database for entities of the selected type.
Refresh	<p>Re-queries the central IEN database for current configuration data.</p> <p>In the unlikely event that two administrators are attempting to modify the same record at the same time, a message will be displayed stating that the current record has been modified and that the form needs to be "refreshed".</p>
Corridor ID, Site ID, and System ID	Filters the corridor database for entities with the selected corridor, site, and system values.



Add/Modify IEN Entity Fields (cont.)

Fields	Description
Reset	Clears the Corridor ID, Site ID, and System ID filters.
Count	Displays the number of entities that meet the selected filter parameters.
Add	Launches the Add Entity screen.
Modify	Launches a Modify Entity screen.
Delete	Deletes the selected entity. A confirmation dialog will be displayed prior to removing the entity.



Creating Entities

- Click the **Add** button found in the middle of the *Add/Modify IEN Entity* form to launch the Add Entity form.
- Required fields are marked with an asterisk “*”. The system will prompt users for missing information.
- Enter the appropriate entity information and click the **OK** button to save the record or **Cancel** to discard the new record.



Add Entity Form

System Configuration Manager - [Adding...]

File Help

CorridorID: *

SiteID: *

SystemID: *

Entity Type: *

Entity Number: *

Entity Name: *

Description:

Archive:

Ok Cancel

The *Add Entity* form is used to define new TCS devices within the corridor database.



Add Entity Fields

Fields	Description
Corridor ID	Identifies the corridor to which the entity is assigned (ex. SGV).
Site ID	Identifies the local agency within a particular corridor to which the entity belongs (ex. Pasadena TMC).
System ID	Identifies the TCS at a particular site with which the entity is associated (ex. Pasadena Series 2000).
Entity Type	Identifies the type of entity (intersection, detector, section).
Entity Number	Identifies the entity within a particular TCS connected to the IEN. This number (depending on the specific implementation of the TCS CDI) will most likely need to be the entity's TCS identification number.



Add Entity Fields (cont.)

Fields	Description
Entity Name	Textual label for the entity.
Description	An optional field that can be used to provide additional information about the entity.
Archive Toggle	Turns on or off archival of the MOE (Measure Of Effectiveness) data from the entity. Data Archival can also be configured using the Archive form.
Ok	Commits the new record to the corridor database.
Cancel	Discards the new record.

Required fields are marked with an asterisk



Modifying Entities

- To modify an existing entity, select the entity in the form's browser list and click the **Modify** button to launch an Edit Entity screen (similar to the Add Entity screen).
- Make the desired changes to the record and click the **Ok** button to save the changes or **Cancel** to discard the changes.



Removing Entities

- To remove an entity, select the entity in the form's browser list and click the **Delete** button.
- A confirmation message will be displayed on the screen. Select **OK** to delete the record or **Cancel** to keep the entity.



Add/Modify IEN Resource Groups

- IEN resource groups are used to manage access privileges for groups of similar resources.
- A resource must be assigned to one and only one resource group.



Add/Modify IEN Resource Groups (cont.)

The screenshot shows the 'System Configuration Manager - [Main : Form]' window. The 'Add/Modify IEN Resource Group' tab is active. The form contains the following fields and sections:

- Resource Group Lookup:** A dropdown menu set to 'DemoResources' and a 'Refresh' button.
- Group Name:** A text box containing 'DemoResources' with an asterisk.
- Description:** A text area containing 'IEN Demo Resources'.
- CorridorID:** A dropdown menu set to 'SGV' with an asterisk.
- SiteID:** A dropdown menu set to 'Pasadena' with an asterisk.
- SystemID:** A dropdown menu set to 'Pasadena Series 2000 syst' with an asterisk.
- Entity Number:** A text box containing '9' with an asterisk.
- Alarm/Data Retention Periods:** A section with three dropdown menus: 'Alarms (Days): 7', 'Detector Sample Data (Days): -1', and 'Intersection Sample Data (Days): -1'.
- Buttons:** 'Add', 'Modify', and 'Delete' buttons.
- Resource List:** A section with two lists and buttons: 'Resources belong to the current resource group:' (containing 'int900 IEN Test Controller #1' and 'int901 IEN Test Controller #2'), 'Choose resource to add:' (containing 'int001 Reinitialized', 'int002 RAYO @ TEST', 'int100 Lincoln Ave. @ Montana St.', 'int101 Fair Oaks Ave. @ Montana St.', 'int102 Unknown Controller', 'int103 LINCOLN AV. @ WASHINGTON BL.', 'int104 WASHINGTON RI. @ GLEN AV.'), and buttons '<- Add' and 'Remove >'. Below the lists is a 'Type' dropdown menu set to 'intersection controller'.
- Bottom Fields:** 'CorridorID' (SGV), 'SiteID' (Pasadena), and 'SystemID' (Pasadena Series 2000 syst) dropdown menus.

The *Add/Modify IEN Resource Group* form is used to configure resource groups and their memberships.



Add/Modify IEN Resource Groups Fields

Fields	Description
Resource Group	Lists the resource groups currently configured within the corridor database. To view information for a particular resource group, select the group in the form's lookup list.
Refresh	Re-queries the central IEN database for current configuration data. In the unlikely event that two administrators are attempting to modify the same record at the same time, a message will be displayed stating that the current record has been modified and that the form needs to be "refreshed".
Resource Group Name	Textual label for the group.



Add/Modify IEN Resource Groups Fields (cont.)

Fields	Description
Description	An optional field that can be used to provide additional group information.
Corridor ID, Site ID, System ID, and Entity Number	Comprise an identifier for the resource group.
Alarm/Data Retention Periods	Sets the number of days that archived alarm, detector, and intersection data is retained by the system. These values apply to all devices within the resource group, however may be overridden by the corridor maximum retention periods defined in the Utility System Parameters Table (configured through the ATMSDA application).
Add	Allows a new resource group to be created.



Add/Modify IEN Resource Groups Fields (cont.)

Fields	Description
Modify	Allows the current resource group to be changed.
Delete	Deletes the current resource group. A confirmation dialog will be displayed prior to removing the group.
Resource Lists	<p>Used to add and remove resources from the selected resource group.</p> <p>The "Resources that belong to the current resource group" list box displays the resources that are members of the selected resource group, while the "Choose Resource(s) to add" list box displays the IEN resources available at the location defined by the Corridor ID, Site ID, System ID, and Type filters.</p> <p>The < - Add and Remove - > buttons are used to move groups back and forth between the two list boxes.</p>



Creating Resource Groups

- To create a new resource group, click the **Add** button found in the middle of the *Add/Modify IEN Resource Group* form.
- Enter the group information and click the **OK** button to save the record or **Cancel** to discard the new record.



Modifying Resource Groups

- To modify a resource group, select the group in the form's lookup list and click the **Modify** button.
- The resource group record fields can now be edited.
- Make the desired changes to the record and click the **Ok** button to save the changes or **Cancel** to discard the changes.



Adding Resources to a Resource Group

- To add resources to a resource group, select the desired group in the form's lookup list.
- Populate the available resource list using the resource filters found below the “Choose Resource(s) to add” list box.
- Add the resource(s) to the current group by selecting the resource in the available list and clicking **< - Add** (multiple resources can be added simultaneously).
- Repopulate the available resource list as needed with different types of resources.



Removing Resources from a Resource Group

- To remove resources from a resource group, select the group in the form's lookup list and set the Type filter.
- Select the desired resource in the “Resources that belong to the current resource group list” and click **Remove** - >.



Removing Resource Groups

- To remove a resource group, select the group in the form's lookup list and click the **Delete** button in the middle of the page.
- A confirmation message will be displayed on the screen. Select **OK** to delete the record or **Cancel** to keep the resource group.



Add/Modify IEN Resource Privileges

Main : Form

Navigation: Add/Modify IEN User | Add/Modify IEN Group | Add/Modify IEN Resource Group | Add/Modify Resource Privileges | Add/Modify Scenarios | Add/Modify Link Detectors | IEN Reports | Archive

User and Group:
User / Group Lookup: Alan Zhang
Description: User: Alan Zhang on ESGV/Pasadena/S2K
Refresh

Resource:
Resource Lookup: EL5 ResourceGrp1
CorridorID: ESGV
SiteID: LACDPW
SystemID: SYSTEM
Description: Resource Group 1 on ESGV/LACDPW/SYSTEM

Granted Privileges: [Empty list]
Available Privileges: PRILEGE_READ, PRILEGE_WRITE, PRILEGE_EXECUTE, PRILEGE_DELETE, PRILEGE_CREATE, PRILEGE_ADMIN

Buttons: <- Add, Remove ->

The *Add/Modify Resource Privileges* form is used to configure user access to IEN resources.



Add/Modify IEN Resource Privileges Fields

Fields	Description
User/Group Lookup	Lists the users and user groups currently configured within the corridor database.
Refresh	Re-queries the central IEN database for current configuration data. In the unlikely event that two administrators are attempting to modify the same record at the same time, a message will be displayed stating that the current record has been modified and that the form needs to be "refreshed".
Resource Lookup	Lists the IEN resource groups currently configured within the corridor database.



Add/Modify IEN Resource Privileges Fields (cont.)

Fields	Description
Granted Privileges	Displays the privileges that have been granted to the user or user group selected in the User/Group Lookup for the resource or resource group selected in the Resource Lookup.
Available Privileges	Displays the privileges that have not been granted to the user or user group selected in the User/Group Lookup for the resource or resource group selected in the Resource Lookup.
< - Add and Remove - >	Used to move groups back and forth between the two list boxes.



Configuring Resource Privileges

1. Select the appropriate user or user group in the User/Group Lookup.
2. Select the appropriate resource or resource group in the Resource Lookup.
3. Adjust the "Granted Privileges" and "Available Privileges" list boxes as necessary.
 - Privileges can be granted by selecting the desired privilege(s) in the "Available Privileges" list box and clicking < - **Add**.
 - Granted privileges can be removed by selecting the privilege(s) in the "Granted Privileges" list box and clicking **Remove** - >.



Add/Modify IEN Users

Main : Form

Add/Modify Resource Privileges | Add/Modify Scenarios | Add/Modify Link Detectors | IEN Reports | Archive

Add/Modify IEN User | Add/Modify IEN Group | Add/Modify IEN Resource Group

User Lookup: Alan Zhang Refresh

User Name: Alan Zhang * CorridorID: ESGV *
Description: User: Alan Zhang on ESGV/Pasadena/S2K SiteID: Pasadena *
SystemID: Pasadena Series 2000 syst *
Entity Number: 11 *

Add Modify Delete

Group Memberships

Member of: Not member of:
LA County IEN Supervisors
LA County IEN Operators
LA County IEN Administrators
LA County IEN TCS Operator
Pasadena IEN Supervisors
Pasadena IEN Operators

The *Add/Modify IEN Users* form is used to configure IEN user accounts and their group memberships.



Add/Modify IEN Users Fields

Fields	Description
User Lookup	Lists the IEN user accounts currently configured within the corridor database. To view information for a particular user account, select the desired account in the form's lookup list.
Refresh	Re-queries the central IEN database for current configuration data. In the unlikely event that two administrators are attempting to modify the same record at the same time, a message will be displayed stating that the current record has been modified and that the form needs to be "refreshed".
User Name	The user's login name for the IEN domain.



Add/Modify IEN Users Fields (cont.)

Fields	Description
Description	An optional field that can be used to record additional information about the user account.
Corridor ID, Site ID, System ID, and Entity Number	Comprise an identifier for the user account.
Add	Creates a new user account.
Modify	Allows the current user account to be changed.
Delete	Deletes the current user account. A confirmation dialog will be displayed prior to removing the user account.



Add/Modify IEN Users Fields (cont.)

Fields	Description
Group Memberships	<p>Configures group membership(s) for the selected user account.</p> <p>The "Member of" list box displays the groups that the user currently belongs to, while the "Not member of" list box includes all other IEN user groups.</p> <p>The < - Add and Remove - > buttons are used to move groups back and forth between the two list boxes.</p>



Creating User Accounts

- To create a new user account, click the **Add** button found in the middle of the Add/Modify IEN User form.
- Enter the account information and click **OK** to save the record or **Cancel** to discard the new record.



Modifying User Accounts

- To modify a user account, select the account in the User Lookup and click the **Modify** button.
- The user account record fields can now be edited.
- Make the desired changes to the record and click the **OK** button to save the changes or **Cancel** to discard the changes.



Removing User Accounts

- To remove a user account, select the account in the User Lookup and click the **Delete** button.
- A confirmation message will be displayed on the screen. Select **Yes** to delete the record or **No** to retain the user account.



Configuring User Group Memberships

- To grant membership(s) in a particular user group, select the group in the “Not member of” list box and click the **Add** button.
- Membership(s) can be removed in a similar manner. Select the group in the "Member of" list box and click **Remove**.
- IEN users accounts may be members of multiple user groups.



Add/Modify IEN User Groups Form

Main : Form

Add/Modify Resource Privileges | Add/Modify Scenarios | Add/Modify Link Detectors | IEN Reports | Archive

Add/Modify IEN User | Add/Modify IEN Group | Add/Modify IEN Resource Group

Group Lookup: Refresh

Group Name: *

Description:

CorridorID: *

SiteID: *

SystemID: *

Entity Number: *

Add | Modify | Delete

The *Add/Modify IEN Group* form is used to configure user groups. User groups can be used to more efficiently administer resource privileges for similar IEN user accounts.



Add/Modify IEN User Groups Fields

Fields	Description
Group Lookup	Lists the IEN user groups currently configured in the corridor database. To view a particular user group record, select the desired group in the form's lookup list.
Refresh	Re-queries the central IEN database for current configuration data. In the unlikely event that two administrators are attempting to modify the same record at the same time, a message will be displayed stating that the current record has been modified and that the form needs to be "refreshed".
Group Name	The textual label for the group.



Add/Modify IEN User Groups Fields (cont.)

Fields	Description
Description	An optional field that can be used to provide additional information about the group and its members.
Corridor ID, Site ID, System ID, and Entity Number	Comprise an identifier for the user group.
Add	Creates a new user group.
Modify	Allows the current user group to be changed.
Delete	Deletes the current user group. A confirmation dialog will be displayed prior to removing the record.



Creating User Groups

- To create a new user group, click the **Add** button found in the middle of the *Add/Modify IEN Group* form.
- Enter the group information and click the **OK** button to save the record or **Cancel** to discard the new record.



Modifying User Groups

- To modify a user group, select the group in the User Group Lookup and click the **Modify** button.
- The user group record fields will now be editable. Make the desired changes to the record and click the **Ok** button to save the changes or **Cancel** to discard the changes.



Removing User Groups

- To remove a user group, select the group in the User Group Lookup and click the **Delete** button.
- A confirmation message will be displayed on the screen. Select **Yes** to delete the record or **No** to retain the user group.



Add/Modify IEN Link Detectors

- Congestion links display aggregate status, volume, occupancy, speed, and V+kO states collected from detectors along an arterial segment.
- Each member detector is assigned a weight value, which is then used to calculate the detector's contribution to the overall link.



Add/Modify IEN Link Detectors (cont.)

Main : Form

Add/Modify IEN User Add/Modify IEN Group Add/Modify IEN Resource Group
Add/Modify Resource Privileges Add/Modify Scenarios Add/Modify Link Detectors IEN Reports Archive

Link Lookup:

Name: * CorridorID: *

Description: SiteID: *

SystemID: * Entity Number: *

Detector List:

Detectors that are belong to the current link:

ELS Detector1	Detector1 on ESGV/LACDPW/SYSTEM
ELS Detector2	Detector2 on ESGV/LACDPW/SYSTEM
ELS Detector3	Detector3 on ESGV/LACDPW/SYSTEM
ELS Detector4	Detector4 on ESGV/LACDPW/SYSTEM
ELS Detector5	Detector5 on ESGV/LACDPW/SYSTEM

Choose detector(s) to add:

EPS Detector13	Detector13 on ESGV/SYSTEM
ES Detector1	Detector1 on ESGV/SYSTEM
ES Detector10	Detector10 on ESGV/SYSTEM
ES Detector11	Detector11 on ESGV/SYSTEM
ES Detector12	Detector12 on ESGV/SYSTEM
ES Detector14	Detector14 on ESGV/SYSTEM
ES Detector15	Detector15 on ESGV/SYSTEM

CorridorID: SiteID: SystemID:

Weight:

The *Add/Modify Link Detectors* form is used to configure congestion links.



Add/Modify IEN Link Detectors Fields

Fields	Description
Link Lookup	Lists the IEN congestion links currently configured within the corridor database. To view information for particular link, select the link in the form's lookup list.
Refresh	Re-queries the central IEN database for current configuration data. In the unlikely event that two administrators are attempting to modify the same record at the same time, a message will be displayed stating that the current record has been modified and that the form needs to be "refreshed".
Link Name	The textual label for the link.



Add/Modify IEN Link Detectors Fields (cont.)

Fields	Description
Description	An optional field that can be used to provide additional information about the link such as location or roadway references.
Corridor ID, Site ID, System ID, and Entity Number	Comprise an identifier for the link.
Add	Creates a new link.
Modify	Allows the current link to be changed.
Delete	Deletes the current link. A confirmation dialog will be displayed prior to removing the record.



Add/Modify IEN Link Detectors Fields (cont.)

Fields	Description
Detector Lists	<p>Used to add and remove detectors from the selected congestion link.</p> <p>The "Detectors that belong to the current link" list box displays the detectors that are members of the selected link, while the "Choose detector(s) to add" list box includes the available detectors at the location defined by Corridor ID, Site ID, and System ID filters.</p> <p>The < - Add and Remove - > buttons are used to move detectors back and forth between the two list boxes.</p>
Weight	<p>A weighting factor for the detector's data within congestion link data calculations.</p>



Detector Weights

- Detector weights can be any number between 1 and 100.
- In the example shown below the link contains three detectors. Each detector is assigned a weight.
- The weight values of all detectors assigned to the link are totaled and used to calculate each individual detector's contribution to the overall link.

Link Detector	Weight	Contribution
A	1	17%
B	2	33%
C	3	50%



Creating Congestion Links

- To create a new congestion link, click the **Add** button found in the middle of the *Add/Modify Link Detectors* form.
- Enter the link information and click the **OK** button to save the record or **Cancel** to discard the new record.



Modifying Congestion Links

- To modify a link, select the link in the form's lookup list and click the **Modify** button.
- The record fields will now be editable. Make the desired changes and click the **Ok** button to save the changes or **Cancel** to discard the changes.



Adding Detectors to the Link

- Select the link in the form's lookup list.
- Populate the “choose detectors to add” list box using the corridor, site, and system filters found below the list box.
- Select the desired detector(s) in the “choose detectors to add” list box and click the **< - Add** button (multiple detectors can be added simultaneously).
- Repopulate the “choose detectors to add” list box as needed with detectors from different systems.



Removing Detectors from a Link

- Select the link in the form's lookup list.
- Select the appropriate detector(s) in the "Detectors that belong to the current link" list box and click the **Remove - >** button.



Removing a Congestion Link

- To remove a congestion link, select the link in the form's lookup list and click the **Delete** button in the middle of the page.
- A confirmation message will be displayed on the screen. Select **Yes** to delete the record or **No** to keep the congestion link.



Add/Modify IEN Scenarios

- A *scenario plan* is a set of pre-configured device actions designed to respond to traffic situations within a designated area of the roadway system.
- Scenario plans are considered resources with associated privileges.
- Authorized users may control a scenario plan even when they may not be able to control the individual devices within the plan directly.



Add/Modify IEN Scenarios (cont.)

- The Add/Modify IEN Scenarios form consists of four screens:
 - Scenario browser screen
 - Scenario configuration screen
 - Device action browser screen
 - Device action configuration screen



Scenario Browser

ScenarioID	Name	Description	Keyword	CreatorID
655	SCN001	Lincoln Ave. @ Montana St.	Lincoln Ave	42
656	SCN002	ARROYO PARKWAY @ CORDOVA ST.	ARROYO PARKW	43
657	SCN003	GREEN ST. @ CATALINA AVE.	GREEN ST	44
658	SCN004	FAIR OAKS @ TREMONT	FAIR OAKS	45
659	SCN005	MADISON AVE. @ UNION ST.	MADISON AVE	46

The Scenario Browser is the default screen shown on the **Add/Modify Scenario** tab. The browser list contains all scenarios that are currently configured within the corridor.



Scenario Browser Fields

Fields	Description
Scenario ID	Identifies the scenario within the corridor.
Scenario Name	A textual label for the plan.
Description	An optional field that can be used to provide additional plan scope or location information.
Keyword	A quick reference clue as to the purpose or location of the plan.
Creator	Identifies the user account that created the plan.

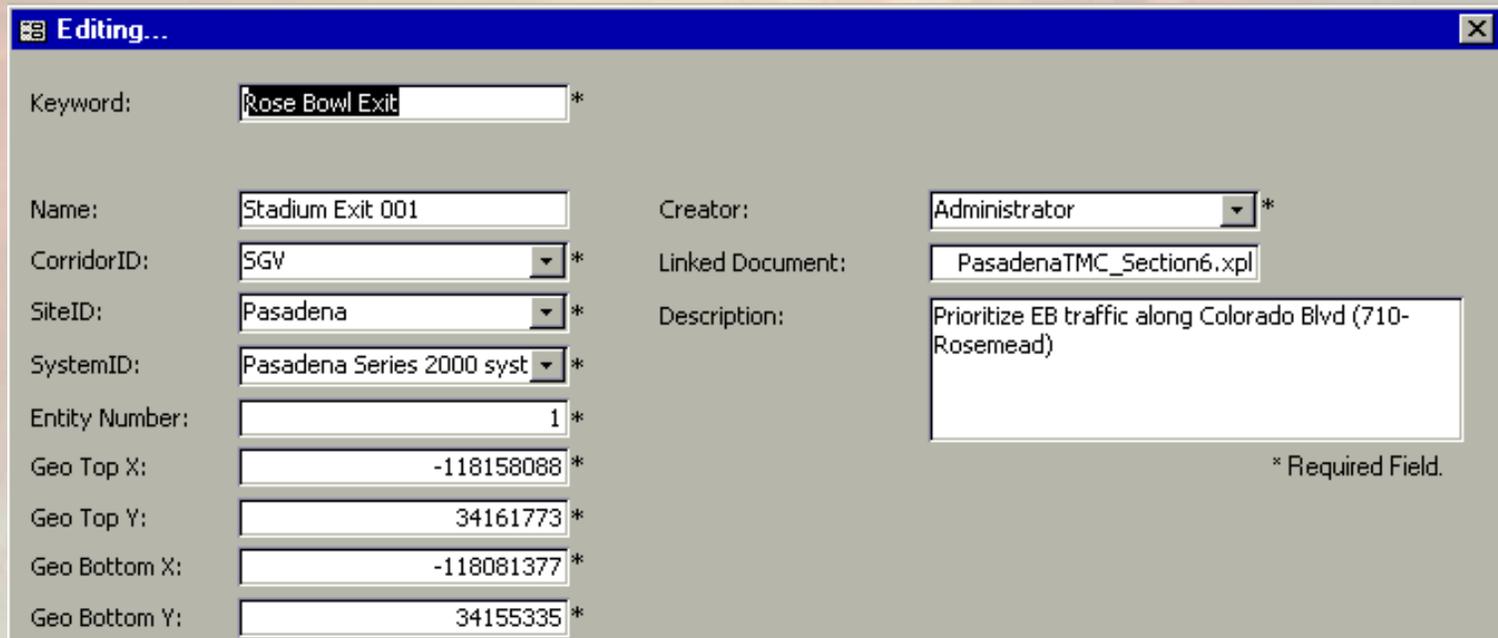


Scenario Browser Options

Fields	Description
Add	Launches the scenario configuration form, allowing the user to create a new plan.
Edit	Launches the scenario configuration form, allowing the user to modify the selected scenario.
Delete	Deletes the scenario plan selected in the browser.
Show Device Actions	Launches the device action browser, which lists the device actions that are part of the plan. If no device actions have been configured for the plan, a message will be displayed and the device action configuration form will open instead.



Scenario Configuration Screen



The screenshot shows a software window titled "Editing...". It contains a form with the following fields and values:

Keyword:	Rose Bowl Exit *	Creator:	Administrator *
Name:	Stadium Exit 001	Linked Document:	PasadenaTMC_Section6.xpl
CorridorID:	SGV *	Description:	Prioritize EB traffic along Colorado Blvd (710-Rosemead)
SiteID:	Pasadena *		
SystemID:	Pasadena Series 2000 syst *		
Entity Number:	1 *		
Geo Top X:	-118158088 *		* Required Field.
Geo Top Y:	34161773 *		
Geo Bottom X:	-118081377 *		
Geo Bottom Y:	34155335 *		

The scenario configuration screen is used to create or modify scenario plans.

To launch the screen, select either Add or Edit from the Scenario Browser.



Scenario Configuration Fields

Fields	Description
Scenario Name	A textual label for the scenario.
Keyword	A quick reference clue as to the purpose or scope of the scenario.
Corridor ID, Site ID, System ID, and Entity Number	Comprise an identifier for the scenario.
Geo Top X, Geo Top Y, Geo Bottom X, and Geo Bottom Y	Geographic coordinates that are used to define the area of affect for a scenario plan.
Creator	Identifies the user account that created the plan.



Scenario Configuration Fields (cont.)

Fields	Description
Linked Document	<p>The name of an ATMS Explorer diagram or text document associated with the scenario plan. For example, the scenario could be linked to a document that provides detailed use and scope information or to a diagram with intersection icons that reflect the current status of the devices involved in the plan.</p> <p>Within <i>Scenario Plan Manager</i> application users are able to navigate from a scenario to the document linked to the scenario.</p>
Description	<p>An optional field that can be used to provide additional plan scope or location information.</p>



Scenario Area of Affect

- A scenario's area of affect designates the area of roadway that the plan is designed to affect.
- The area of affect is used by the MICE and Scenario Manager applications to match incidents with scenario plans that affect the location of the incident.

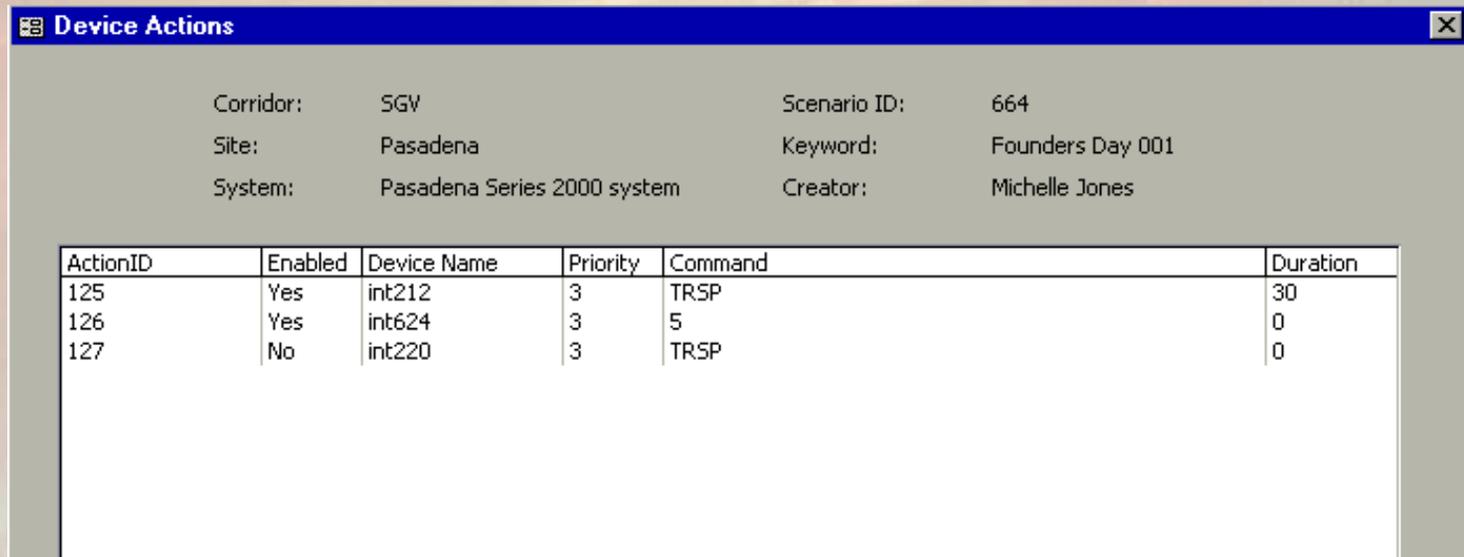


Scenario Area of Affect (cont.)

- The "area of affect" is defined by Geo Top X, Geo Top Y, Geo Bottom X, and Geo Bottom Y values.
- These values specify two geographical coordinates that form the top right and bottom left corners of a rectangle.
- A Scenario's area of affect is the area contained within that rectangle.
- Latitude and longitude values can be displayed in the ATMS Map application.



Device Action Browser Screen



ActionID	Enabled	Device Name	Priority	Command	Duration
125	Yes	int212	3	TRSP	30
126	Yes	int624	3	5	0
127	No	int220	3	TRSP	0

The device action browser lists the device actions that make up the selected scenario plan.

To launch the screen, click the Show Device Action button from the Scenario Browser or double-click a listed scenario.



Device Action Browser Fields

Fields	Description
Action ID	The unique identifier for the device action.
Enable	Indicates whether or not the device action is enabled by default.
Device ID	Identifies the TCS device (intersection or section) involved in the device action.
Priority	A rating, which defines the priority level for the device action.
Command	The command issued to the TCS device.
Duration	The device action duration field is not used in the initial implementation of the IEN.
Last Updated	The date that the plan was last updated.



Device Action Browser Options

Fields	Description
Add	Launches the device action configuration form, allowing the user to add a new device action.
Edit	Launches the device action configuration form, allowing the user to modify the selected device action.
Delete	Deletes the device action selected in the browser.
Close	Closes the device action browser, returning to the Scenario Browser screen.



Device Action Configuration Screen

Editing...

Select the device

Corridor ID: *

Site ID: *

System ID: *

Device type ID: *

Device ID: *

Specify the action for the device

Command: *

Priority: *

Enable: *

* Required Field

Save Close

The device action configuration screen is used to create or modify device actions.

To launch the screen, select either the Add or Edit button from the Device Action Browser.



Device Action Configuration Fields

Fields	Description
Corridor ID, Site ID, System ID, Device Type, and Device ID	Used to select the TCS device involved in the device action.
Command	The command issued to the TCS device.
Priority	A rating, which defines the priority level for the device action.
Enable Toggle	Determines whether the device action is enabled or disabled by default. Authorized operators are able to change this state prior to activating a plan.



Device Action Commands

- For the pilot project, scenario device actions will be limited to changing the control mode or timing plan of intersection controllers and sections.
- It is expected that the system will be extended to support other types of devices, including dynamic message signs, advisory radio, closed-circuit television, and so forth.



Intersection and Section Commands

String Format	Description
"NUMBER"	Change timing plan to given plan number
FREE	Switch to non-coordinated mode
TIMEBASE	Switch to time-base coordination mode
ACTUATED	Switch to actuated control mode
SEMIACTUATED	Switch to semi-actuated control mode
CIC	Switch to critical intersection control mode
TRSP	Switch to traffic-responsive control mode
ADAPTIVE	Switch to adaptive control mode



Important: Device actions are limited to the functions supported by a particular device.

Device Action Priorities

- Device action priorities are used to coordinate multiple commands for the same device.
- Device actions with a priority level of "1" will overwrite all lower-priority commands.
- New commands will override any existing commands of the same priority level.



Creating Scenarios

1. Click the Add button found in the middle of the Add/Modify IEN Scenario screen to open the scenario configuration form.
2. Enter a keyword for the scenario. The keyword is a quick reference field that should point to the purpose or location of the plan (example: "Ballpark_Pregame").
3. Specify the Corridor ID, Site ID, and System ID values. The system will automatically generate an entity number for the scenario plan.



Creating Scenarios (cont.)

4. Define an "area of affect" for the scenario by setting the Geo Top X, Geo Top Y, Geo Bottom X, and Geo Bottom Y values.
5. Enter the name of a linked document for the scenario (the document must be located within the C:\Program Files\TransCore directory).
6. Enter a description for the scenario.
7. Select **Save** to add the new scenario or **Close** to discard the scenario and return to the scenario browser.



Modifying Scenarios

- To modify a scenario, select the plan in the scenario browser and click the **Edit** button to open the scenario configuration screen.
- Make the desired changes to the record.
- Click the **Save** button to commit the changes to the database or **Close** to discard the changes and return to the scenario browser.



Adding Device Actions

1. Double-click the scenario plan in the scenario browser to open the device action browser.
2. Click the **Add** button found along the bottom of the browser to open the device action configuration screen.
3. Select the device by setting the Corridor ID, Site ID, System ID, Device Type, and Device ID values.
4. Specify the command to be issued to the TCS device.



Adding Device Actions (cont.)

5. Enter a "priority" for the device action.
6. Once the device action information has been entered, click **Save** to add the new action or **Close** to discard the action and return to the device action browser.



Modifying Device Actions

- Double-click the appropriate plan in the scenario browser to open the device action browser.
- Select the device action in the browser list area and click the **Edit** button to open the device action configuration screen.
- Make the desired modifications to the device action and click the **Save** button to commit the changes to the database.



Removing Device Actions

- Double-click the plan in the scenario browser to open the device action browser.
- Select the appropriate device action in the browser list area and click the **Delete** button.
- A confirmation message will be displayed on the screen. Select **OK** to delete the record or **Cancel** to keep the device action.



Removing Scenarios

- To delete a scenario, select the plan in the scenario browser and click the **Delete** button.
- A confirmation message will be displayed on the screen. Select **OK** to delete the record or **Cancel** to keep the scenario.



IEN Data Archiving

- The following types of data being collected from Traffic Control System (TCS) devices can be archived to tables within the central IEN database:
 - Alarm status and historical information.
 - Detector status, volume, speed, occupancy, V+kO measurements (15 minute averages).
 - Intersection communication metrics such as the number of attempts, number of good/bad/no responses, and number of good/bad/no responses per period (15 minute averages).



IEN Data Archiving

- Archived data is made available to users through the database reports provided on the IEN Reports form.
- Data retention settings determine how long archived data is retained before being purged from the system.



IEN Archive Form

CorridorID:

SiteID:

SystemID:

Type:

Archive Status

Archive:

ES Detector10	Detector10 on ESGV/SYSTEM
ES Detector11	Detector11 on ESGV/SYSTEM
ES Detector12	Detector12 on ESGV/SYSTEM
EPS Detector13	Detector13 on ESGV/SYSTEM
ES Detector14	Detector14 on ESGV/SYSTEM
ES Detector15	Detector15 on ESGV/SYSTEM

Not archive:

ES Detector1	Detector1 on ESGV/SYSTEM
ES Detector2	Detector2 on ESGV/SYSTEM
ES Detector3	Detector3 on ESGV/SYSTEM
ES Detector4	Detector4 on ESGV/SYSTEM
ES Detector5	Detector5 on ESGV/SYSTEM
ES Detector6	Detector6 on ESGV/SYSTEM

<- Add

Remove ->

The *Archive* form is used to enable/disable the archival of data from devices connected to the IEN.



IEN Archive Fields

- Corridor ID, Site ID, System ID, and Type drop-down lists filter the two list boxes found in the Archive Status area. Intersection controller and VOS detector data can be archived to the IEN database.
- The Archive Status area allows system administrators to add and remove devices from the archive list. The “Archived” list box displays the devices that are currently being archived, while the “Not Archived” list box includes all other devices that meet the selected filter criteria. The < - Add and Remove - > buttons are used to move groups back and forth between the two list boxes.



Adding a Device to the Archive List

1. Populate the Archive Status list boxes, by defining the Corridor ID, Site ID, System ID, and Type of device to be added.
2. Select the desired device(s) in the "Not Archive" list box and click the < - **Add** button to move the device(s) to the "Archive" list box.



Removing a Device from the Archive List

1. Populate the Archive Status list boxes, by defining the Corridor ID, Site ID, System ID, and Type of device to be removed.
2. Select the desired device(s) in the "Archive" list box and click the **Remove** - > pushbutton to move the device(s) to the "Not Archive" list box.



IEN Reports Form

Add/Modify IEN User	Add/Modify IEN Group	Add/Modify IEN Resource Group	Add/Modify Resource Privileges
Add/Modify Scenarios	Add/Modify Link Detectors	IEN Reports	Archive
			Add/Modify Entity

IEN User Report

IEN User Group Report

IEN Entity Type Report

IEN Scenario Report

IEN Link Detector Report

IEN Group Membership Report

IEN TCS Report

IEN Detector Sample Data Report

IEN Alarm Report

IEN Arterial Controller Configuration Report

IEN Arterial Controller Communications Report

The IEN Reports form provides a series of IEN configuration reports. Administrators may add, modify, or remove reports as needed.



Printing and Previewing Reports

- To print or preview a report, select the desired report in the browser list area and click the appropriate option button.
 - **Preview** displays the selected report on the screen.
 - **Print** sends the selected report to the workstation's default printer.
- Double-clicking a report in the browser list area will open a preview of the report.



Adding/Modifying/Removing Reports

- Reports can be added/modified/removed within a local instance of the *IEN System Configuration Manager*.
- The *IEN System Configuration Manager* application can be opened in design mode by holding down the <Shift> key while launching the application.
- Consult the Microsoft Access 2000 online help screens for information on working with database views and reports.



ATMS Database Administration



TRANS CORE.

Countywide Information Exchange Network

ATMSDA Access Privileges

- *The ATMS Database Administration (ATMSDA)* application is available to members of the ATMS Supervisors, ATMS Operators, and ATMS Editors domain groups.
 - ATMS Supervisors have full access to the application.
 - ATMS Operators and ATMS Editors are limited to report screens within the application and may not modify values stored in the ATMS tables.
- ATMSDA is not available to ATMS Guests.



ATMSDA Overview

- The ATMSDA is used to access and modify data values stored in the ATMS tables within the SGV Corridor Database.
- The ATMS tables support components of the TransCore's ATMS application suite.
- For example, MICE uses values stored in the MICE Selection tables to populate dropdown lists that specify the details of incidents and planned events.



ATMSDA Overview (cont.)

ATMS Database Administration : Form

Street Modifications	Street Reports	Utility Modifications	Utility Reports
MICE Reports	MICE Selection Reports	MICE Selections	

Daily Incident Report
Incident Location Report
Incident Notification Report
Incident Source Report
Planned Event Summary Report

Preview... Print



ATMSDA Overview (cont.)

- *ATMSDA* is also responsible for generating ATMS table summary and MICE activity reports.
- The *ATMSDA* consists of a series of tabbed pages.
- Each page displays a list of reports or modification forms available for the different ATMS database tables.



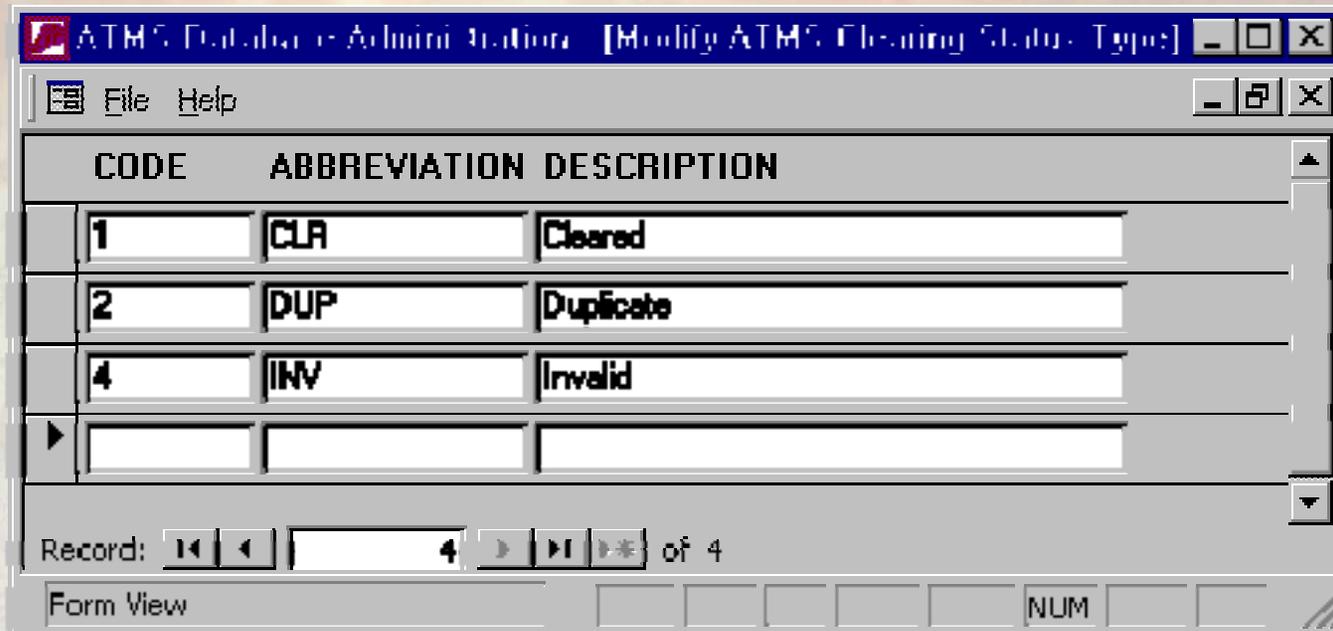
ATMSDA Modification Forms

- A series of modification forms are available on the following pages:
 - MICE Selections
 - Street Modifications
 - Utility Modifications
- The modification forms are used to add, modify, or remove records from the ATMS database tables.
- To open a modification form, either double-click the form listed in the browser or select the desired form and then click the **Modify** button at the bottom of the page.



Adding Records to ATMS Tables

- To add a record to a database table, scroll down to the last row of the table (the last row will be empty), and enter values in each of the available fields.



CODE	ABBREVIATION	DESCRIPTION
1	CLR	Cleared
2	DUP	Duplicate
4	INV	Invalid

Record: 4 of 4



Adding Records to ATMS Tables (cont.)

- Field values should be entered from left to right.
- To save the new record, select another data row or close the form.
- The new values can be discarded by pressing the **Esc** key prior to saving the record.



Modifying ATMS Table Records

- To modify a database record, select the input box of the value to be modified and make the desired changes.
- When modifying a record field, a pencil symbol will be displayed on the left tab of the selected record.
- To save the changes, select another data row or close the form.
- Changes can be discarded by pressing the **Esc** key prior to saving the record.



Deleting Records From ATMS Tables

- To delete a database record, select the tab to the left of the record to be deleted and press the **Delete** key.
- The table row will be deleted.



Data Integrity

- ATMSDA will automatically check data integrity constraints on record fields as the user enters or modifies values.
- An error message will be displayed in the event that a required data value is missing or is of the wrong type.
- Pressing the **Esc** key will drop any changes made in the current data field and revert back to the original value.



ATMSDA Reports

- A series of database configuration reports are available on the following pages:
 - MICE Selection Reports
 - Street Reports
 - Utility Reports
- Each report displays a report title in the header and a time/date stamp and page number in the footer.
- MICE reports are also available within the MICE application.



Printing An ATMSDA Report

- To print a report, select the report listed in the browser area and then the **Print** button at the bottom of the page.
- Users will need to specify a date range for MICE reports.



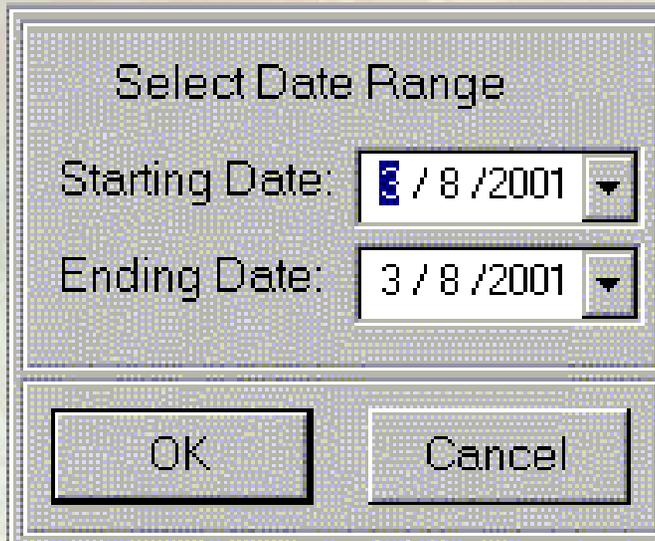
ATMS Date Selection Dialogs



Select Date

Select Date

OK Cancel



Select Date Range

Starting Date:

Ending Date:

OK Cancel

- The current date is selected by default.
- The date can be changed using the up and down arrows on the keyboard or by typing a new date within the input box.
- Once the desired date has been entered, click **OK** to generate the report or **Cancel** to return to the MICE Reports page.



Previewing An ATMSDA Report

- To preview a report, double-click the desired report in the browser area.
- A report can also be previewed by selecting the report and then the **Preview** button at the bottom of the page.
- Users will need to specify a date range for previews of MICE reports.



MICE Reports

- The MICE Reports page provides five MICE activity reports.
- These reports are also available from the System Menu within the MICE application.
- To print or preview a report, select the desired report and click the appropriate button below the list area.



Daily Incident Report

- The Daily Incident Report is a summary of all incidents (active and cleared) for the selected day.
- The report is sorted by time



Incident Location Report

- The Incident Location Report lists the locations of incidents that were declared within the specified date range.
- The entries are sorted by date and time.
- This report can be generated for a range of dates or for a single date.



Incident Notification Report

- The Incident Notification Report is a listing of notifications for incidents declared within the specified date range.
- The report is sorted by incident creation date and time. Within each incident the notifications are sorted by date and time.
- The report can be generated for a range of dates or a single date.



Incident Source Report

- The Incident Source Report is a listing of reporting sources for incidents declared within the specified date range.
- This report is sorted by incident creation date and time.
- The report can be generated for a single day or a range of days.

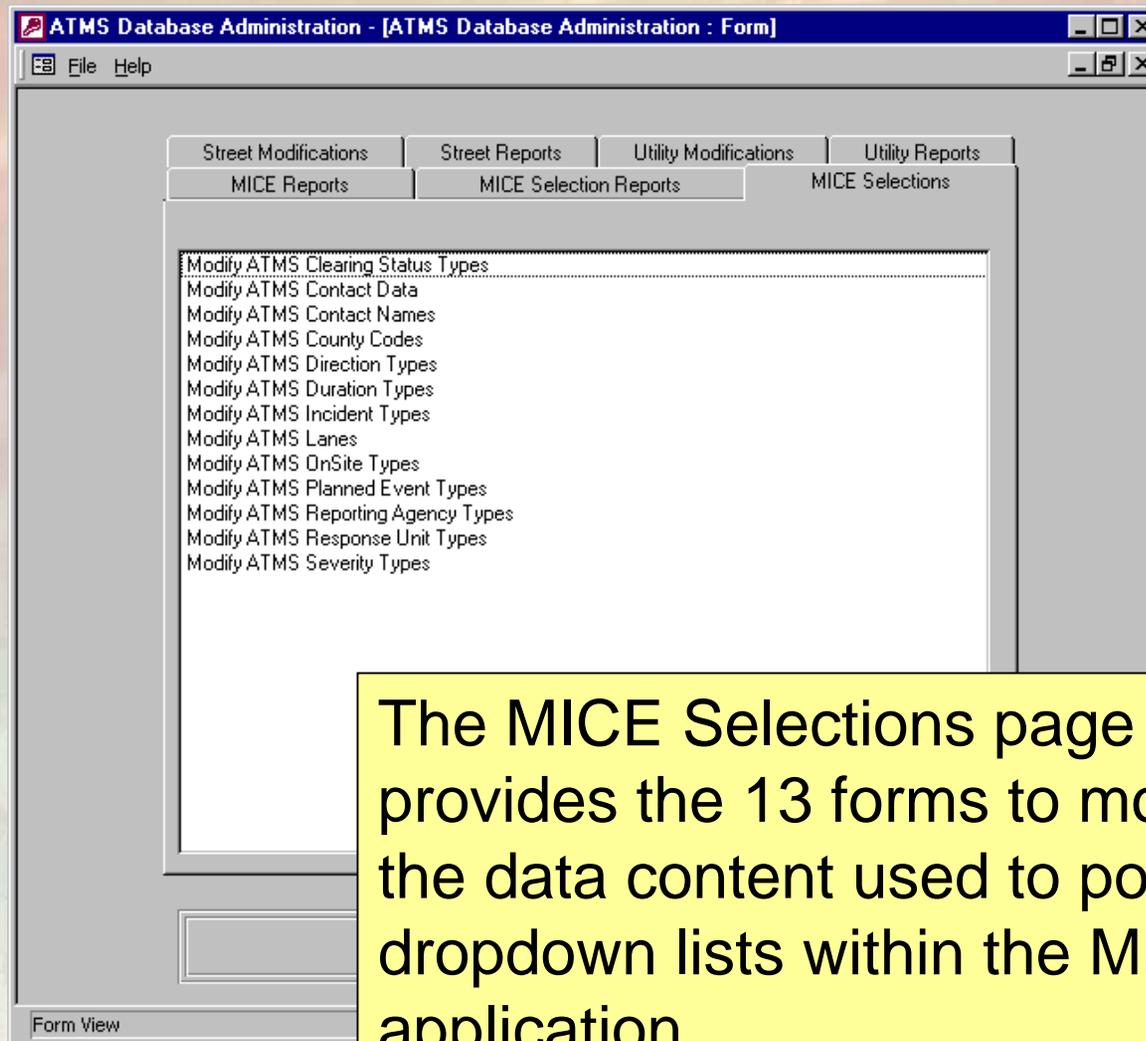


Planned Event Summary

- The Planned Event Summary Report is a listing of the planned events that took place within a specified date range.
- This report is sorted by start date and time.
- The report can be generated for a single day or a range of days.



MICE Selections



The MICE Selections page provides the 13 forms to modify the data content used to populate dropdown lists within the MICE application.



MICE Selections (cont.)

- It is important to note that the *MICE* application reads the ATMS database as it starts up.
- Any changes made to the table values while *MICE* is opened will not be reflected in the application until it is closed and restarted.



Modify ATMS Clearing Status Types

CODE	ABBREVIATION	DESCRIPTION
1	CLR	Cleared
2	DUP	Duplicate
4	INV	Invalid

Record: [Navigation icons]

Form View

The Modify ATMS Clearing Status Types form modifies the table values used to populate the “Clearing Status” dropdown list in MICE.



Modify ATMS Contact Data Types

Contact (LastName, FirstName)	Data Description	DATA (Phone, Fax, Cell, e-mail, etc.)
Michael	Phone	123-456-7890
[REDACTED]	Pager	1-800-123-4567
*		

Record: [Navigation Buttons] [Input Field]

Form View

The Modify ATMS Contact Data form modifies one of the tables used to populate the “Person Notified” dropdown list within the “MICE Notification” dialog.



Modify ATMS Contact Names

ATMS Database Administration [Modify ATMS Contact Name]

File Help

LASTNAME	FIRSTNAME	TITLE	ORGANIZATION
Michael	Bayer	Operator	TransCore
John	Smith	Administrator	TransCore

Record: 14 4

Form View

The Modify ATMS Contact Names form modifies one of the tables used to populate the "Person Notified" dropdown list within the "MICE Notification" dialog.



Modify ATMS County Codes

CODE	ABBREVIATION	DESCRIPTION
1	LA	LA County

Record: [Navigation icons]

Form View

The Modify ATMS County Codes form modifies the table values used to populate the “County Codes” dropdown list in MICE.



Modify ATMS Direction Types

CODE	DESCRIPTION
B/D	Both
E/B	Eastbound
I/B	Inbound
I/R	Inner Roadway
L/R	Lower Roadway
N/B	Northbound
O/B	Outbound
O/R	Outer Roadway
S/B	Southbound
U/R	Upper Roadway
W/B	Westbound

Record: 12 of 12

Form View

The Modify ATMS Direction Types form modifies the table values used to populate the “Direction Types” dropdown list in MICE.



Modify ATMS Duration Types

MINUTES	DESCRIPTION
	1 hour
15	15 mins
120	2 hours
180	3 hours
30	30 mins
240	4 hours
45	45 mins
0	Other
0	Unknown
0	Until Further Notice
*	

Record: 1 of 10
Form View

The Modify ATMS Duration Types form modifies the table used to populate the “Duration Types” dropdown list in MICE.



Modify ATMS Incident Types

CODE	DESCRIPTION
	Vehicle Tagged and Ready for Tow
AA	Agent Assault
ABAN	Abandoned Vehicle
ACC	Accident on Local Street/Highway/Bridge
ADV	Derelict Vehicle
ALARM	DOT Facility Alarm Notification
ANML	Injured Animal
ARREST	DOT Employee Arrest
AVTM	Aviation Accident
BANNER	Illegal Banner or Structure
BF	Building Fire

Record: 1 of 88

Form View

The Modify ATMS Incident Types form modifies the table values used to populate the "Incident Types" dropdown list in MICE.



Modify ATMS Lanes

The screenshot shows a software window titled "ATMS Database Administration [Modify ATMS Lane]". It contains a table with three columns: BITMASKVALUE, ABBREVIATION, and DESCRIPTION. The table lists various lane types from Lane 1 to Other. A yellow callout box is overlaid on the right side of the table.

BITMASKVALUE	ABBREVIATION	DESCRIPTION
1	L1	Lane 1
2	L2	Lane 2
4	L3	Lane 3
8	L4	Lane 4
16	L5	Lane 5
32	L6	Lane 6
64	L7	Lane 7
128	L8	Lane 8
256	SHLDR	Shoulder
512	MDN	Median
1024	ACC	Access
2048	RMP	Ramp
4096	OTH	Other
*		

Record: 1 of 13

Form View

The Modify ATMS Lanes form modifies the table values used to populate the "Lanes Affected" dropdown list in MICE.



Modify ATMS Onsite Types

ATMS Database Administration [Modify ATMS Onsite Type]

File Help

BITMASKVALUE	ABBREVIATION	DESCRIPTION
1	FD	Police department
2	FD	Fire department
4	DOT	Department of Transportation
8	TOW	Towing service
16	HP	Highway patrol
32	MISC	Miscellaneous

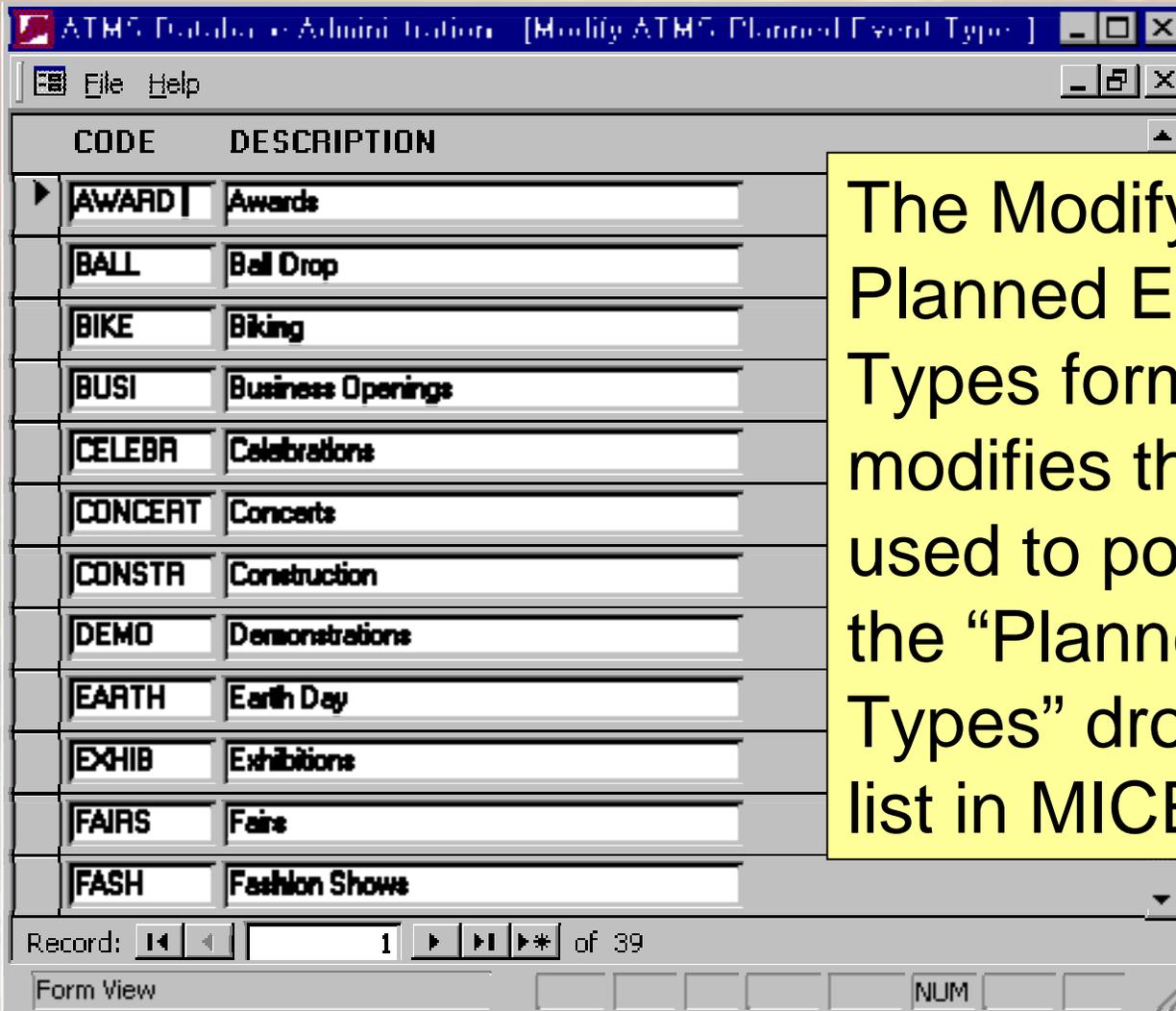
Record: 7

Form View

The Modify ATMS OnSite Types form modifies the table used to populate the "On Site Types" dropdown list in MICE.



Modify ATMS Planned Event Types



The screenshot shows a window titled "ATMS Database Administration [Modify ATMS Planned Event Type]". The window contains a table with two columns: "CODE" and "DESCRIPTION". The table lists various event types, including AWARD, BALL, BIKE, BUSI, CELEBR, CONCERT, CONSTR, DEMO, EARTH, EXHIB, FAIRS, and FASH. The "AWARD" row is selected. Below the table, there is a record navigation bar showing "Record: 1 of 39" and a "Form View" button.

CODE	DESCRIPTION
AWARD	Awards
BALL	Ball Drop
BIKE	Biking
BUSI	Business Openings
CELEBR	Celebrations
CONCERT	Concerts
CONSTR	Construction
DEMO	Demonstrations
EARTH	Earth Day
EXHIB	Exhibitions
FAIRS	Fairs
FASH	Fashion Shows

Record: 1 of 39
Form View

The Modify ATMS Planned Event Types form modifies the table used to populate the "Planned Event Types" dropdown list in MICE.



Modify ATMS Reporting Agency Types

ATMS Database Administration [Modify ATMS Reporting Agency Type]

File Help

CODE	DESCRIPTION
501	Traffic Enforcement - 501
502	Traffic Enforcement - 502
CT	State Department of Transportation
CTZN	Citizen
DEP	Department of Environment Protection
DOT	Department of Transportation
EMS	Emergency Medical Services
EPA	Environmental Protection Agency
FD	Fire Department
HWY1	Highway #1
HWY2	Highway #2
HWY3	Highway #3

Record: 1 of 25

Form View

The Modify ATMS Reporting Agency Types form modifies the table used to populate the “Reporting Agency Types” dropdown list in MICE.



Modify ATMS Response Unit Types

CODE	DESCRIPTION
EMS	Emergency Medical Service
ACME	ACME Towing
*	

Record: [Left Arrow] [Right Arrow]

Form View [Right Arrow]

The Modify ATMS Response Unit Types form modifies the table used to populate the "Response Unit Types" dropdown list in MICE.



Modify ATMS Severity Types

CODE	DESCRIPTION
1	Least Severe
2	Moderately Severe
3	Moderately Severe
4	Moderately Severe
5	Severe
L	Long-term Incident
*	

Record: 14

Form View

The Modify ATMS Severity Types form modifies the table used to populate the “Severity Types” dropdown list in MICE.



MICE Selection Reports

- The MICE Selection Reports page provides summary reports of the MICE field selection values.
- To print or preview a report, select the desired report and click the appropriate button below the list area.



Street Modifications

- The Street Modifications page provides two forms used to modify the ATMS Street tables.
- The ETAK database, which provides geographical address information for the Map and MICE applications, cannot be modified through the ATMSDA.
- The ATMS Street tables are a way to add landmarks or commonly held synonyms in addition to the existing ETAK database values.



Modify ATMS Landmarks

- The ATMS Landmarks form provides a way to add alternate street names, bridge names, or other street names not currently defined on the map to the “Street” and “Cross Street” dropdown lists in MICE.
- After selecting a county from the option list, type in a unique street or bridge name and the longitude and latitude that define the location of the landmark.



Modify ATMS Landmarks Form

ATMS Database Administration - [Modify ATMS LandMarks]

File Help

County	Landmark Name	Longitude	Latitude
LA County	Long Beach Pier	118.21068	33.744485
*		0	0

Record: 1 of 1

Landmark Name



Accessing the Latitude/Longitude

- In *ATMS Navigator*, select the **Show X-Y in Status Bar** option from the View Menu.
- Locate the area to be defined, for example, a bridge.
- Right-click the cursor on the area of interest, select the **Point Information** option from the pop-up menu, and note the longitude and latitude values displayed in the dialog box.
- Coordinates can be cut and pasted from the Point Information dialog into the ATMS Landmarks table fields.



Modify ATMS Synonyms

- The ATMS Synonyms form provides a way to associate abbreviations or synonyms with an existing street names.
- Select a county from the option list and type in the abbreviation or synonym.
- Select a street name to associate with the abbreviation.



Modify ATMS Synonyms Form

ATMS Database Administration - [Modify ATMS Synonyms]

File Help

County	Abbreviation	Street
LA County	COL	COLORADO BLVD
*		

Record: 1 of 1

Form View



Street Reports

- The Street Reports page provides summary reports for Street Modification values.
- To print or preview a report, select the desired report and click the appropriate button below the list area.



Utility Modifications

- The Utility Modifications page provides a single form, Modify System Parameters, which is used to configure the retention of archived data within the SGV corridor database.
- System parameters override retention values set at resource group level within the System Configuration Manager application.



Modify System Parameters Form

ATMS Database Administration - [Modify System Parameters]

File Help

NAME	SUBSYSTEM	PARAM TYPE	PARAM VALUE	DESCRIPTION
DefaultOpAlarmRetention	DPURG	2	1	Default number of days to retain cleared operator generated alarms within the IEN Database
MaxAlarmRetention	DPURG	2	3	Maximum number of days to retain cleared or uncleared alarms in the database based on the LastUpdated field in the Alarm table.
MaxDetDataRetention	DPURG	2	14	Maximum number of days to retain IEN_DetectorDataSamples. This value overrides the RetentionPeriod configured on
MaxIntDataRetention	DPURG	2	14	Maximum number of days to retain IEN_IntersectionDataSamples. This value overrides the RetentionPeriod configured on
*				

Record: 1 of 4

Form View



Modify System Parameters

Parameter	Description
DefaultOpAlarmRetention	Number of days cleared operator alarms are retained within the database
MaxAlarmRetention	Maximum number of days alarms are retained within the database (overrides the DefaultOpAlarmRetention parameter)
MaxDetDataRetention	Maximum number of days detector information is retained within the database
MaxIntDataRetention	Maximum number of days controller communication information is retained within the database



Utility Reports

- The Utility Reports page provides a summary report of System Parameters.
- To print or preview a report, select the desired report and click the appropriate button below the list area.



Data Purge

- Data that is beyond the specified retention period for its data type is periodically cleared from the SGV Corridor Database through a data purge event.
- A data purge event is scheduled to run each night on the corridor server.
- The data purge event is configured through the Windows Scheduled Task console.



CIEN Administrator's Training - Day 1 Wrap Up

Questions & Answers



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