# NORTEL
## NETWORKS

Preside Multiservice Data Manager

# Administration Database

Schema

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Preside Multiservice Data Manager
# Administration Database
Schema

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# Contents

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## Administration Database Schema                                      65

# About this document

This document contains the database schema and mapping files.

The following topics are discussed in this section:

- "Who should read this document and why" (page 11)

- "What you need to know" (page 11)

- "How this document is organized" (page 11)

- "What's new in this document" (page 12)

- "Text conventions" (page 12)

- "Related documents" (page 13)

## Who should read this document and why

This document is intended for system integrators, database administrators and individuals who generate SQL queries and reports to read information contained in the Administration Database.

## What you need to know

This document assumes that you have knowledge of the Preside Multiservice Data Manager (MDM), the Passport product, Oracle Databases, and SQL querying.

## How this document is organized

This document contains the following sections:

- "Administration Database schema description" (page 15)

- "Administration Database Schema" (page 65)

# What's new in this document

The following changes were made to this document:

- "Database namespace and name length management" (page 12)

- "Administration Database schema" (page 12)

### Database namespace and name length management

The Database namespace and name length management information was deleted from this document.

### Administration Database schema

The Administration Database schema was updated.

# Text conventions

This document uses the following text conventions:

- `nonproportional spaced plain type`

  Nonproportional spaced plain type represents system generated text or text that appears on your screen.

- **`nonproportional spaced bold type`**

  Nonproportional spaced bold type represents words that you should type or that you should select on the screen.

- *italics*

  Statements that appear in italics in a procedure explain the results of a particular step and appear immediately following the step.

  Words that appear in italics in text are for naming.

- `[optional_parameter]`

  Words in square brackets represent optional parameters. The command can be entered with or without the words in the square brackets.

- `<general_term>`

    Words in angle brackets represent variables which are to be replaced with specific values.

- UPPERCASE,lowercase

    In MDM, uppercase and lowercase letters that appear in UNIX commands and parameters must be matched exactly. The system matches upper and lowercase characters differently.

- |

    This symbol separates items from which you may select one; for example, ON|OFF indicates that you may specify ON or OFF. If you do not make a choice, a default ON is assumed.

- ...

    Three dots in a command indicate that the parameter may be repeated more than once in succession.

The term absolute pathname refers to the full specification of a path starting from the root directory. Absolute pathnames always begin with the slash ( / ) symbol. A relative pathname takes the current directory as its starting point, and starts with any alphanumeric character (other than /).

# Related documents

See the following documents for related information:

- 241-6001-400 *Preside MDM Administration Database User Guide*

# Chapter 1
# Administration Database schema description

This section provides a description of the Administration Database Schema entities and their attributes. This section contains the following topics:

## Overview

The Administration Database schema description provides details of the entity and attributes shown in the section "Administration Database Schema" (page 65). This schema contains a set of control tables and the following database objects categorized under the following logical models:

• "Customer model tables" (page 22)

• "Circuit model tables" (page 26)

• "Switch-mastered model tables" (page 41)

• "IP VPN model tables" (page 33)

This schema description provides details for the control table ADMIN_SEQ_GEN and for entities and attributes in each model.

## Control tables

The control tables are not part of the logical schema but MDM applications and services use these tables to manage the content of the data tables. Attributes for the following control tables are available:

• "ADMIN_SCHEMA_VERSION attributes" (page 18)

• "ADMIN_COMPONENT_MAPPINGS" (page 18)

• "ADMIN_ATTRIBUTE_MAPPINGS" (page 19)

• "ADMIN_NODE_VIEW attributes" (page 20)

• "ADMIN_NODE_HISTORY attributes" (page 21)

## ADMIN_SCHEMA_VERSION

The ADMIN_SCHEMA_VERSION entity records the current version of the Administration Database schema and the current version of the MDM software. For a description of the attributes, see the table "ADMIN_SCHEMA_VERSION attributes" (page 18).

**Table 1**
**ADMIN_SCHEMA_VERSION attributes**

| Attribute | Description |
|---|---|
| id | primary key value, use to ensure that only one record may exist in this table |
| ver_no | the schema version number |
| vendor_name | the DBMS platform |
| migrated_from | the previous MDM version from which the database has been migrated |
| mdm_version | the current MDM software version (this includes the patch level if the schema is changed for the patch) |

## ADMIN_COMPONENT_MAPPINGS

The ADMIN_COMPONENT_MAPPINGS entity specifies which Passport components, indicated by their location in the component instance tree, are loaded or mapped into specified tables in the MDM database. Multiple component types can be mapped to the same table and, in a few cases, a single component type can be mapped to multiple tables.

**Table 2**
**ADMIN_COMPONENT_MAPPINGS attributes**

| Attribute | Description |
|---|---|
| comp_path | indicates the component type, as a hierarchical path name, uniquely situated in the component instance tree. The same component type may appear in multiple mappings |
| table_name | the table into which the associated component type, indicated by comp_path, is loaded. The combination of comp_path and table_name is unique. |
| attribute_mapping_id | identifies one or more records in the ADMIN_ATTRIBUTE_MAPPINGS table, specifying how the attributes of the component type map to the columns of the table. This can be NULL if no attributes of the specified component type need to be mapped to columns in the table. |
| | |

## ADMIN_ATTRIBUTE_MAPPINGS

The ADMIN_ATTRIBUTE_MAPPINGS entity specifies the correspondence of Passport component attributes to table columns in the MDM Administration Database. Individual attribute mappings for a component type are grouped together by a common identifier.

**Table 3**
**ADMIN_ATTRIBUTE_MAPPINGS attributes**

| Attribute | Description |
|---|---|
| attribute_mapping_id | identifier for one or more attribute mappings which together are used by a component mapping |
| attr_name | the name of the attribute which is mapped to a column in the database table |
| (Sheet 1 of 2) | |

**Table 3 (continued)**
**ADMIN_ATTRIBUTE_MAPPINGS attributes**

| Attribute | Description |
|-----------|-------------|
| col_tab_name | the name of the column in the table to which the attribute is mapped. Currently, mappings of multi-valued attributes to tables are not supported by the MDM Administration Database |
| comp_path | matches the type of an ancestor or descendant of the mapped component type in the component hierarchy to which the attribute mapping is applied |
| (Sheet 2 of 2) | |

# ADMIN_NODE_VIEW

The ADMIN_NODE_VIEW entity records the latest view and journal that was successfully loaded for each node (a summary of the ADMIN_NODE_HISTORY table). For a description of the attributes, see the table "ADMIN_NODE_VIEW attributes" (page 20).

**Table 4**
**ADMIN_NODE_VIEW attributes**

| Attribute | Description |
|-----------|-------------|
| node_name | the Passport device name |
| last_activation_timestamp | the activation time of the view or journal that was last successfully loaded into the database |
| last_activation_tag | the 5-digit numeric activation tag of the last view or journal loaded for the node. This tag indicates the equivalence between a committed view in the Passport and the previous journal view. |
| last_view_name | the number of the last loaded view name |
| last_journal_number | the number of the last loaded journal (this is null if the last synchronization was via a view) |
| last_view_timestamp | the creation time of the last view file successfully loaded for the device |
| (Sheet 1 of 2) | |

**Table 4 (continued)**
**ADMIN_NODE_VIEW attributes**

| Attribute | Description |
|---|---|
| last_journal_timestamp | the creation time of the last journal file successfully loaded for the device. |
| discovery_status | indicates the status of discovery for the node |
| (Sheet 2 of 2) | |

## ADMIN_NODE_HISTORY

The ADMIN_NODE_HISTORY entity records information about he view or journal files loaded from the network for each Passport device. For a description of the attributes, see the table "ADMIN_NODE_HISTORY attributes" (page 21).

**Table 5**
**ADMIN_NODE_HISTORY attributes**

| Attribute | Description |
|---|---|
| node_name | the Passport device name |
| load_seq | a monotonically increasing number defining the sequence (unique for each load) in which views and journals were loaded for a node. Useful for timeline reports. |
| view_name | the name of a view that was loaded into the database, or for journal loads the committed view on which the journal was based |
| journal_number | when journals are loaded into the database, the journal number of the journal file, otherwise it is NULL |
| activation_timestamp | the date and time when the View Backup Server observed the view or journal to be active on the switch |
| (Sheet 1 of 2) | |

**Table 5 (continued)**
**ADMIN_NODE_HISTORY attributes**

| Attribute | Description |
|-----------|-------------|
| activation_tag | the 5-digit numeric tag identifying a journal log in the sequence of activations. This attribute stores the activation tag of the loaded journal or, in the case of a view file, the activation tag of the view committed. |
| load_status | either LOADED or FAILED, depending on the success or failure of the load. While the loading of a view or journal file is in progress, the value is LOADING. |
| load_timestamp | the workstation timestamp when the load was completed either successfully or not |
| dbsync_id | the unique name of the DBSync server that initiated the load of a particular view or journal file |
| view_timestamp | the creation time of the view file that was loaded or the base view for the journal that was loaded. |
| journal_timestamp | the creation time of the journal file that was loaded. |
| error_details | in the case of a failed load, this attribute contains details of the cause of failure |
| (Sheet 2 of 2) | |

# Customer model tables

The customer model consists of information about a customer and their service contacts. Service contract data is derived from service provisioning traffic management profile names. Customer model information is not discovered from the Passport network, rather the information is entered into the Administration Database by the MDM Database Administration tool or the service provisioning tools.

The customer model contains the following entities:

-

## ADMIN_CUSTOMERS

The ADMIN_CUSTOMERS entity represents a customer organization. A customer may own zero or more INTERFACES, CIRCUITS, COMPOSITE-SERVICEs, SITES, VPNs or Route Targets and is represented by any number of contacts. For a description of attributes, see the table "ADMIN_CUSTOMERS attributes" (page 23).

**Table 6**
**ADMIN_CUSTOMERS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated numerical identifier | |
| name | a unique, descriptive name of the customer | No |
| is_default | a boolean flag indicating whether or not a customer is the default customer. Upon creation, the database is populated with a default customer named "Default Customer" and no other information or contacts. The default customer owns any interfaces discovered in the network, and any circuits discovered for which a more suitable customer association is not available. | No |
| is_service_provider | boolean flag indicating whether or not a customer is the service provider. This customer owns those services that are intended for internal use or for network infrastructure (for example, trunks). Like the default customer, you cannot reassign the service provider. | No |
| isp_asn | specifies a service provider customer's assigned autonomous system number (ASN). This attribute is blank for non service provider customer | No |
| last_rt_assigned_num | The last system-assigned route target number for the customer | Yes |
| business_category | the type of business conducted by the organization | Yes |
| country | the country where the customer is located | Yes |
| state_or_province | the state or province where the customer is located | Yes |
| (Sheet 1 of 2) | | |

**Table 6 (continued)**
**ADMIN_CUSTOMERS attributes**

| Attribute | Description | Optional |
|-----------|-------------|----------|
| city | the city where the customer is located | Yes |
| street | the street where the customer is located | Yes |
| postal_code | the postal or ZIP code of the customer | Yes |
| registered_address | an alternative address for communication where you can send registered mail and have someone sign for it | Yes |
| telephone_number | customer telephone number, including area code | Yes |
| fax_number | customer fax number, including area code | Yes |
| email | customer internet electronic mail address | Yes |
| description | free-form text description or comments about the customer organization | Yes |
| (Sheet 2 of 2) | | |

## ADMIN_CONTACTS

The ADMIN_CONTACTS entity represents a person or address that can be reached at a customer organization for such purposes as communication or billing. For a description of attributes, see the table "ADMIN_CONTACTS attributes" (page 24).

**Table 7**
**ADMIN_CONTACTS attributes**

| Attribute | Description | Optional |
|-----------|-------------|----------|
| id | a unique, system-generated numerical identifier | |
| customer_id | the CUSTOMER that this contact represents | No |
| last_name | surname of the contact | No |
| first_name | first name of the contact | No |
| title | title, position, or purpose of contact | Yes |
| country | the country where the contact is located | Yes |
| state_or_province | the state or province where the contact is located | Yes |
| (Sheet 1 of 2) | | |

**Table 7 (continued)**
**ADMIN_CONTACTS attributes**

| Attribute | Description | Optional |
|---|---|---|
| city | the city where the contact is located | Yes |
| street | the street where the contact is located | Yes |
| postal_code | the postal or ZIP code of the contact | Yes |
| registered_address | an alternative address for communication requiring an individual to accept it | Yes |
| telephone_number | contact telephone number, including area code | Yes |
| fax_number | contact fax number, including area code | Yes |
| email | contact internet electronic mail address | Yes |
| description | free-form text description or comments about the customer contact | Yes |
| (Sheet 2 of 2) | | |

## ADMIN_TM_PROFILES

The ADMIN_TM_PROFILES entity represents a traffic management profile. For a description of attributes, see the table "ADMIN_TM_PROFILES attributes" (page 25).

**Table 8**
**ADMIN_TM_PROFILES attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the TM profile | |
| name | the name of the profile as it is presented in applications. An alternative unique identifier for this entity is the name along with the version_number. | No |
| version_number | the version number of the profile. This attribute supports the need to version the contents of TM profiles as they change over time, retaining the same name. An alternative unique identifier for this entity is the name along with the version_number. | No |
| (Sheet 1 of 2) | | |

**Table 8 (continued)**
**ADMIN_TM_PROFILES attributes**

| Attribute | Description | Optional |
|---|---|---|
| creation_date | the date and time when the TM profile was created. TM profiles cannot be edited; only new versions can be created. | No |
| description | free-form text description of the profile | Yes |
| tm_profile_type | the type of traffic management profile according to service | No |
| provisioned_name | the instance name used when provisioning an IP Class of Service profile on-switch | Yes |
| profile_def | the XML document that specifies the configuration data applied to the switch to implement the IP Class of Service profile | Yes |
| (Sheet 2 of 2) | | |

# Circuit model tables

The circuit model consists of the network level structure of circuits and more complex services that use these circuits. The model describes the services owned by customers and the relationships to the configuration components on Passport and other devices. Circuit model entities are created by the service provisioning tools and by the circuit discovery function of the MDM Database Administration tool.

The circuit model contains the following entities:

## ADMIN_CIRCUITS

The ADMIN_CIRCUITS entity represents a connection between two endpoints. Endpoints are optional (for example, for an ATM SPVC, the destination may not be known). When ATM PVCs are discovered by

correlation tag based discovery, the order of the hops is unknown and neither endpoint is determined. For a description of attributes, see the table "ADMIN_CIRCUITS attributes" (page 27).

**Table 9**
**ADMIN_CIRCUITS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_CIRCUITS entity | |
| name | a user-defined name for the circuit. This name may be unique, or may be shared by multiple circuits implementing the same service. This entity is commonly referred to as the "Circuit ID" by applications. | No |
| service_type | indicates the kind of service implemented by the circuit | No |
| circuit_type | indicates the type of circuit, as a specialization of the service type | No |
| customer_id | indicates the customer that owns the circuit | No |
| a_interface | along with a_connection identifies one of the interfaces (referenced) and the connection identifier on that interface that comprises one end of the circuit. | Yes |
| a_connection | along with a_interface identifies one of the interfaces (referenced) and the connection identifier on that interface that comprises one end of the circuit. For Passport connections, the a_connection is the relative component name (excluding the interface name), for example, "Vcc/0.36" or "Dlci/23". | Yes |
| a_endpoint | refers to the "a" endpoint entity and should be consistent with the a_interface and a_connection attributes | Yes |
| a_tm_profile | identifies traffic management profiles that describe the level of service offered by the circuit at one end of the circuit | Yes |
| z_interface | along with z_connection identifies the other end of the circuit, similar to a_interface and a_connection | Yes |
| z_connection | along with z_connection identifies the other end of the circuit, similar to a_interface and a_connection | Yes |
| (Sheet 1 of 2) | | |

**Table 9 (continued)**
**ADMIN_CIRCUITS attributes**

| Attribute | Description | Optional |
|---|---|---|
| z_endpoint | a reference to the 'z' endpoint entity. This should be consistent with the z_interface and z_connection attributes | Yes |
| z_tm_profile | identifies optional traffic management profiles that describe the level of service offered at the other end of the circuit | Yes |
| current_hop_version_ number | identifies the version number of hops that constitute the current path of the circuit | No |
| description | a free-form text description of the circuit. Can also be used for annotations. | Yes |
| composite_id | refers to the composite service containing the circuit | Yes |
| access_point_id | indicates the access point | No |
| seq_in_composite | indicates the relative position of a circuit among the members of a composite. If the circuit is a member of a composite, then this sequence value must be specified. This ordering covers not only circuits that are members of the composite, but also other composites (because composites can be nested). | Yes |
| discovery_timestamp | indicates the timestamp of the last update of the object, either by service discovery or another application. The timestamp is the time when the provisioning actions were activated by the service provisioning tool, or when circuit discovery created the circuit. | No |
| discovery_status | indicates the status of the object with respect to any conflicts with the current network configuration. | No |
| (Sheet 2 of 2) | | |

## ADMIN_NPVC_HOPS

The ADMIN_NPVC_HOPS entity represents a hop in an ATM PVC or PVP circuit that defines the cross-connect on a node. For a description of attributes, see the table "ADMIN_NPVC_HOPS attributes" (page 29)

**Table 10**
**ADMIN_NPVC_HOPS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_NPVC_HOPS entity | |
| circuit_id | references the circuit that contains the hop | No |
| sequence_number | indicates the order of hops | No |
| version_number | the version of the path or sequence of hops. This attribute is currently not used. | No |
| a_interface | along with a_connection identify the interface and connection identifier on one side of the cross-connect. | Yes |
| a_connection | along with a_interface identifies the interface and connection identifier on one side of the cross-connect. For a Passport connection, the a_connection stores the component name, relative to its ancestor interface, for example, "Vcc/0.36" on an AtmIf or "Dlci/129" on a FrUni. | Yes |
| a_endpoint | refers to the "a" endpoint entity. This should be consistent with the a_interface and a_connection attributes. | Yes |
| a_tm_profile | indicates the TM profile applied to the "a" side of the cross-connect, overriding any profile specified for the CIRCUIT as a default | Yes |
| z_interface | along with z_connection identifies the other side of the cross-connect | Yes |
| z_connection | along with z_interface identifies the other side of the cross-connect. For a Passport connection, z_connection stores the component name, relative to its ancestor interface, for example, "Atm" on a Trunk interface. | Yes |
| z_endpoint | a reference to the "z" endpoint entity. This should be consistent with the z_interface and z_connection attributes. | Yes |
| z_tm_profile | optionally indicates the "z" side TM profile | Yes |
| (Sheet 1 of 2) | | |

**Table 10 (continued)**
**ADMIN_NPVC_HOPS attributes**

| Attribute | Description | Optional |
|---|---|---|
| discovery_timestamp | indicates the timestamp of the last update of the object, either by service discovery or another application. The timestamp is the time when the provisioning actions were activated by the service provisioning tool, or when circuit discovery created the circuit. | No |
| discovery_status | indicates the status of the object with respect to any conflicts with the current network configuration. | No |
| (Sheet 2 of 2) | | |

## ADMIN_COMPOSITE_CIRCUITS

The ADMIN_COMPOSITE_CIRCUITS entity represents an end-to-end circuit that is implemented by multiple cooperating circuits, or segments, either serially (for example, FRF.8 FR/ATM gateway) or in parallel (for example, FR DLCI with backups, ATM point-to-multipoint).

**Table 11**
**ADMIN_COMPOSITE_CIRCUITS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_COMPOSITE_CIRCUITS entity | |
| name | a name for the composite service, analogous to CIRCUIT name | No |
| service_type | identifies the type of service that the composite implements (more specific that the composite type). | No |
| circuit_type | indicates the type of composite circuit | No |
| customer_id | refers to the customer that owns the composite service, even if that customer is the service provider | No |
| parent_id | refers to a composite that contains the composite | Yes |
| access_point_id | indicates the access point | Yes |
| (Sheet 1 of 2) | | |

**Table 11 (continued)**
**ADMIN_COMPOSITE_CIRCUITS attributes**

| Attribute | Description | Optional |
|---|---|---|
| seq_in_parent | indicates the relative position of a composite among the members of the parent composite. If the composite has a parent, then this sequence value must be specified. This ordering covers composites that are children of the composite and circuits that are members of the parent composite. | Yes |
| description | a free-form text field for descriptive information of the circuit or for annotations | Yes |
| discovery_timestamp | indicates the timestamp of the last update of the object, either by service discovery or another application. The timestamp is the time when the provisioning actions were activated by the service provisioning tool, or when circuit discovery created the circuit. | No |
| discovery_status | indicates the status of the object with respect to any conflicts with the current network configuration. | No |
| a_endpoint | refers to the "a" endpoint entity. This should be the same as the "a" endpoint of one of the composite's subordinate CIRCUITs. For a simple FR/ATM gateway service, a_endpoint references the endpoint at the FRUNI end of the FR DLCI. For a FR DLCI with backups, the a_endpoint is the master DLCI. | Yes |
| z_endpoint | refers to the "z" endpoint entity. This should be consistent with the "z" endpoint of one of the composite's subordinate CIRCUITs. For a simple FR/ATM gateway service, this is the endpoint at the ATMIF end of the FR/ATM circuit. For a FR DLCI with backups, the z_endpoint is the primary slave DLCI. Alternatively, the z_endpoint reference is never blank. | Yes |
| (Sheet 2 of 2) | | |

## ADMIN_SITES

The ADMIN_SITES entity represents the customer's physical location where IP Access is implemented. For a description of attributes, see the table "ADMIN_SITES attributes" (page 32).

**Table 12**
**ADMIN_SITES attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_SITES entity | |
| name | the name of the site | No |
| customer_id | indicates the customer that owns the site | No |
| site_of_origin_2547 | the 2547-specific site of original code that identifies the customer site. Currently this attribute is not used by any application. | Yes |
| max_routes | the maximum number of routes which this site may inject into the provider edge network. Currently this attribute is not used by any application. | Yes |
| allows_extranet | indicates whether this site permits extranet access | No |
| discovery_timestamp | indicates the timestamp of the last update of the object, either by service discovery or another application. The timestamp is the time when the provisioning actions were activated by the service provisioning tool, or when circuit discovery created the circuit. | No |
| discovery_status | indicates the status of the object with respect to any conflicts with the current network configuration. | No |
| description | a free-form text field for descriptive information of the circuit or for annotations | Yes |
| | | |

## ADMIN_IP_ACCESS_POINTS

The ADMIN_IP_ACCESS_POINTS entity represents the customer's IP Access Point in the IP Access service. For a description of attributes, see the table "ADMIN_IP_ACCESS_POINTS attributes" (page 33).

**Table 13**
**ADMIN_IP_ACCESS_POINTS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_IP_ACCESS_POINTS entity | |
| name | the name of the IP Access point | No |
| site_id | the ID of the customer site at which the access point provides access to the VPN | Yes |
| seq_in_site | implements ordering of access points in a site | Yes |
| ip_logical_interface_id | the ID of the IP logical interface that is implementing the VPN access on the network side | No |
| description | a free-form text field for descriptive information of the IP Access point or for annotations | Yes |
| discovery_timestamp | indicates the timestamp of the last update of the object, either by service discovery or another application. The timestamp is the time when the provisioning actions were activated by the service provisioning tool, or when circuit discovery created the circuit. | No |
| discovery_status | indicates the status of the object with respect to any conflicts with the current network configuration. | No |
| description | a free-form text field for descriptive information of the circuit or for annotations | Yes |

## IP VPN model tables

The IP VPN model consists of information about entities that support Passport IP VPNs, conforming to RFC.2764 and RFC.2547 and Passport direct VR-VR VPN specifications. The IP VPN model contains the following entities:

- "ADMIN_PROVIDER_EDGE_NETWORKS" (page 34)

- "ADMIN_VIRTUAL_PRIVATE_NETWORKS" (page 35)

- "ADMIN_VPN_PRIV_ADDR_POOLS" (page 36)

- "ADMIN_CR_PUB_ADDR_POOLS" (page 37)

- "ADMIN_ROUTE_TARGETS" (page 37)

- "ADMIN_VRF_RT_USAGES" (page 38)

- "ADMIN_VPN_RT_USAGES" (page 39)

- "ADMIN_VPN_MEMBERSHIPS" (page 40)

The following entity is used only for the VPN Monitor tool with MDM:

- "ADMIN_VPNMON_SERVICE_UIDS" (page 40)

## ADMIN_PROVIDER_EDGE_NETWORKS

The ADMIN_PROVIDER_EDGE_NETWORKS entity represents the IP connectivity between Core Routers on the network edge. For a description of attributes, see the table "ADMIN_PROVIDER_EDGE_NETWORKS attributes" (page 34).

**Table 14**
**ADMIN_PROVIDER_EDGE_NETWORKS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_PROVIDER_EDGE_NETWORKS entity | |
| name | the name of the provider edge network | No |
| pe_network_type | the type of VPN that is implemented on this provider edge network | No |
| is_internet_enabled | indicates whether the provider edge network provides access to the internet. Currently, this attribute is not used by any applications. | No |
| asn | the autonomous system number (ASN) of the network. All core routers in a provider edge network must have the same ASN | Yes |
| peering_topology | specifies the peering topology of the network. This attribute applies to both 2764 (VCG-based) and 2547 networks. | No |
| discovery_timestamp | indicates the timestamp of the last update of the object, either by service discovery or another application. The timestamp is the time when the provisioning actions were activated by the service provisioning tool. | No |
| (Sheet 1 of 2) | | |

**Table 14**
**ADMIN_PROVIDER_EDGE_NETWORKS attributes (continued)**

| Attribute | Description | Optional |
|---|---|---|
| discovery_status | indicates the status of the object with respect to any conflicts with the current network configuration. | No |
| description | a free-form text field for descriptive information of the provider edge network or for annotations | Yes |
| (Sheet 2 of 2) | | |

## ADMIN_VIRTUAL_PRIVATE_NETWORKS

The ADMIN_VIRTUAL_PRIVATE_NETWORKS entity represents the VPNs that are implemented on a Provider Edge Network. For a description of attributes, see the table "ADMIN_VIRTUAL_PRIVATE_NETWORKS attributes" (page 35).

**Table 15**
**ADMIN_VIRTUAL_PRIVATE_NETWORKS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_IP_VIRTUAL_PRIVATE_NETWORKS entity | |
| name | the name of the VPN | No |
| vpn_type | the type of VPN | No |
| vpn_id | refers to the standards compliant 2764 VPN identifier. This number is NULL for 2547 VPNs. | Yes |
| customer_id | refers to the customer who owns the VPN | No |
| pe_network_id | refers to the provider edge network which implements VPN | Yes |
| asn_2764 | the 2764 autonomous system number (ASN). This number is NULL for 2547 VPNs. | Yes |
| is_2764_mbgp_enabled | indicates whether the VPN implements 2764 Multiprotocol Border Gateway Protocol (MBG) | Yes |
| max_access_points | the maximum number of IP Access Points that may be configured to provide access to the VPN | Yes |
| (Sheet 1 of 2) | | |

**Table 15**
**ADMIN_VIRTUAL_PRIVATE_NETWORKS attributes (continued)**

| Attribute | Description | Optional |
|---|---|---|
| role_definitions | defines the possible roles that individual VRFs can implement in the VPN. It also defines the limitations on the number of VRFs that can implemented in each role. This attribute is currently not used by any application. | Yes |
| discovery_timestamp | indicates the timestamp of the last update of the object, either by service discovery or another application. The timestamp is the time when the provisioning actions were activated by the service provisioning tool, or when VPN discovery created the circuit. | No |
| discovery_status | indicates the status of the object with respect to any conflicts with the current network configuration. | No |
| description | a free-form text field for descriptive information of the IP VPN or for annotations | Yes |
| (Sheet 2 of 2) | | |

## ADMIN_VPN_PRIV_ADDR_POOLS

The ADMIN_VPN_PRIV_ADDR_POOLS entity stores private IP addresses allocated to VPNs and VRFs in the network. For a description of attributes, see the table "ADMIN_VPN_PRIV_ADDR_POOLS attributes" (page 36).

**Table 16**
**ADMIN_VPN_PRIV_ADDR_POOLS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_VPN_PRIV_ADDR_POOLS entity | |
| vpn_id | refers to the VPN that owns the address pool | No |
| ip_address | the value of the IP address | No |
| ip_address_mask | the mask of the address pool | No |
| vrf_id | the VRF to which an address pool is assigned. This attribute is only used to reference a VRF when the parent pool id specifies a higher level address pool. | Yes |
| (Sheet 1 of 2) | | |

**Table 16**
**ADMIN_VPN_PRIV_ADDR_POOLS attributes (continued)**

| Attribute | Description | Optional |
|-----------|-------------|----------|
| parent_id | the parent address pool of which this entity is a part | Yes |
| description | a free-form text field for descriptive information of the address pool or for annotations | Yes |
| (Sheet 2 of 2) | | |

## ADMIN_CR_PUB_ADDR_POOLS

The ADMIN_CR_PUB_ADDR_POOLS is used by applications to manage the public IP addresses assigned to Core Routers in the network. The applications can allocate new addresses from the appropriate subnet ranges or pools. For a description of attributes, see the table "ADMIN_CR_PUB_ADDR_POOLS attributes" (page 37).

**Table 17**
**ADMIN_CR_PUB_ADDR_POOLS attributes**

| Attribute | Description | Optional |
|-----------|-------------|----------|
| id | a unique, system-generated identifier that identifies the ADMIN_CR_PUB_ADDR_POOLS entity | |
| ip_core_router_id | refers to the core router that owns the address pool | No |
| ip_address | the value of the IP address | No |
| ip_address_mask | the mask of the address pool | No |
| description | a free-form text field for descriptive information of the address pool or for annotations | Yes |
| | | |

## ADMIN_ROUTE_TARGETS

The ADMIN_ROUTE_TARGET entity represents a 2547 Route Target discovered in the network. Route Targets are discovered from the configuration of VRFs in the Passport network; they are not populated from the node. For a description of attributes, see the table "ADMIN_ROUTE_TARGETS attributes" (page 38).

**Table 18**
**ADMIN_ROUTE_TARGETS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_ROUTE_TARGETS entity | |
| route_target | the unique value of the route target | No |
| customer_id | refers to the customer who owns the route target. This is the primary mechanism which determines the customer ownership of a 2547 VPN. | No |
| description | a free-form text field for descriptive information of the route target or for annotations | Yes |
| discovery_timestamp | indicates the timestamp of the last update of the object, either by service discovery or another application. The timestamp is the time when the provisioning actions were activated by the service provisioning tool, or when VPN discovery created the Route Target. | No |
| discovery_status | indicates the status of the object with respect to any conflicts with the current network configuration. | No |

## ADMIN_VRF_RT_USAGES

The ADMIN_VRF_RT_USAGES entity represents the relationship between VRFs and Route Targets. In a 2547 VPN, the individual VRFs are configured to import and/or export a defined set of RTs. For a description of attributes, see the table "ADMIN_VRF_RT_USAGES attributes" (page 38).

**Table 19**
**ADMIN_VRF_RT_USAGES attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_VRF_RT_USAGES entity | |
| vrf_id | the ID of the VRF participant in the RT usage relationship | No |
| route_target | the unique value of the route target | No |

**Table 19**
**ADMIN_VRF_RT_USAGES attributes**

| Attribute | Description | Optional |
|---|---|---|
| route_target_id | the ID of the Route Target participant in the RT usage relationship | Yes |
| is_import | indicates whether the VRF imports the associated Route Target | No |
| is_export | indicates whether the VRF exports the associated Route Target | No |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |

## ADMIN_VPN_RT_USAGES

The ADMIN_VPN_RT_USAGES entity implements the relationship between VPNs and route targets. The ADMIN_VPN_RT_USAGES entity is discovered. For a description of attributes, see the table "ADMIN_VPN_RT_USAGES attributes" (page 39).

**Table 20**
**ADMIN_VPN_RT_USAGES attributes**

| Attribute | Description | Optional |
|---|---|---|
| vpn_id | the ID of the VPN associated with the route target | No |
| route_target_id | the ID of the route target associated with the VPN | No |

## ADMIN_VPN_MEMBERSHIPS

The ADMIN_VPN_MEMBERSHIPS entity implements the relationship between the VRF (VPN_ROUTING_FUNCTION) and VPN (IP_VIRTUAL_PRIVATE_NETWORK) entities for both 2547 and 2764 VPNs. For a description of attributes, see the table "ADMIN_VPN_MEMBERSHIPS attributes" (page 40).

**Table 21**
**ADMIN_VPN_MEMBERSHIPS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_VPN_MEMBERSHIPS entity | |
| vrf_id | the VRF participant in the membership relationship | No |
| vpn_id | the VPN participant in the membership relationship | No |
| vpn_role | the name of the VRF role in the RFC 2547 VPN. For RFC 2547, the VRF can play a different role in the different VPNs of which it is a member. Currently, this attribute is not used. | No |
| discovery_timestamp | indicates the timestamp of the last update of the object, either by service discovery or another application. The timestamp is the time when the provisioning actions were activated by the service provisioning tool, or when VPN discovery created or modified the VPN. | No |
| discovery_status | indicates the status of the object with respect to any conflicts with the current network configuration. | No |
| | | |

## ADMIN_VPNMON_SERVICE_UIDS

The ADMIN_VPNMON_SERVICE_UIDS entity represents the identifier for services in the VPN Monitor system. For a description of attributes, see the table "ADMIN_VPNMON_SERVICE_UIDS attributes" (page 41).

**Table 22**
**ADMIN_VPNMON_SERVICE_UIDS attributes**

| Attribute | Description | Optional |
|---|---|---|
| vpn_monitor_uid | identifies the entity | No |
| admin_table_name | identifies the table where the corresponding Administration Database object is stored | No |
| admin_object_id | the ID of the corresponding Administration Database object that is stored in the table identified by admin_table_name | No |
| | | |

# Switch-mastered model tables

The switch-mastered model consists of information about entities that are populated and synchronized from the network. Service provisioning tools can also insert or modify objects as required by activation. For example, this occurs when circuit endpoints or service interfaces do not already exist in the database. The switch-mastered model consists of the following four submodels and their entities:

- Network Elements and Interfaces

    — "ADMIN_DEVICES" (page 42)

    — "ADMIN_FACILITIES" (page 43)

    — "ADMIN_SERVICE_INTERFACES" (page 44)

    — "ADMIN_INTERFACE_ADDRESSES" (page 45)

- Miscellaneous Passport Configuration

    — "ADMIN_PASSPORT_LPS" (page 46)

    — "ADMIN_PASSPORT_LP_USAGES" (page 47)

    — "ADMIN_VIRTUAL_FRAMER_GATEWAYS" (page 49)

- the IP VPN-specific set of related entities consist of:

    — "ADMIN_IP_CORE_ROUTERS" (page 50)

    — "ADMIN_VPN_ROUTING_FUNCTIONS" (page 51)

    — "ADMIN_IP_LOGICAL_INTERFACES" (page 55)

- Passport-specific endpoint configuration model contains the following set of related entities

# Network Elements and Interfaces-specific switch-mastered model tables

The switch-mastered model tables contains the following entities specific to Network Elements and Interfaces:

## ADMIN_DEVICES

The ADMIN_DEVICES entity represents a device in the network, including Passport and other devices. For a description of attributes, see the table "ADMIN_DEVICES attributes" (page 43).

**Table 23**
**ADMIN_DEVICES attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated numerical identifier that identifies the ADMIN_DEVICES entity | |
| name | the node name must be unique in the network. Passport device names are stored with an EM/ component type prefix. | No |
| vendor_name | identifies the vendor of the device | No |
| node_type | optionally describes the type of device (for example, "Passport 15000") | Yes |
| address_prefix | the value of the ModuleData nodePrefix attribute on Passport that denotes the device's address prefix for ATM NSAP addressing | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event. | No |

## ADMIN_FACILITIES

The ADMIN_FACILITIES entity represents a physical interface (facility) in the network. For Passport facilities, this entity represents all the various unchannelized port and port channel components. For a description of attributes, see the table "ADMIN_FACILITIES attributes" (page 44).

**Table 24**
**ADMIN_FACILITIES attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a system-generated unique identifier for the ADMIN_FACILITIES entity | |
| name | the component name | No |
| facility_id | the "facility ID" that identifies the facility for billing and other customer relationship management (CRM) purposes. For Passport facility components, this value is obtained from the component's commentText attribute. | Yes |
| device_id | reference to the device on which the facility is implemented | No |
| interface_id | refers to the service-interface (if any) implemented on this facility | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event. | No |

## ADMIN_SERVICE_INTERFACES

The ADMIN_SERVICES_INTERFACES entity represents an interface in the network. The interface represents any networking protocol and vendor implementation. For a description of attributes, see the table "ADMIN_SERVICE_INTERFACES attributes" (page 45).

**Table 25**
**ADMIN_SERVICE_INTERFACES attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier | |
| name | the name of the interface. For software interfaces on Passport, the name is the full Passport component name excluding the node (for example, AtmIf/1200). | No |
| interface_type | indicates the type of service interface | No |
| device_id | refers to the device on which the interface is implemented | No |
| customer_id | refers to the customer that owns the interface. Every interface has an owner, even if it is the service provider. | No |
| remote_interface | refers to the interface on the remote end of the link. At most, one interface may be identified as being the remote partner of another. | Yes |
| remote_interface_label | the value of the Passport's AtmIfremoteInterfaceLabel attribute | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |

## ADMIN_INTERFACE_ADDRESSES

The ADMIN_INTERFACE ADDRESSES entity represents a network address of a service interface. For a description of attributes, see the table "ADMIN_INTERFACE_ADDRESSES attributes" (page 46).

**Table 26**
**ADMIN_INTERFACE_ADDRESSES attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier | |
| address | the address value | No |
| npi | the Numbering Plan Indicator. For Frame Relay addresses, this is either "x121" or "e164". For ATM addresses, the value is "nsap". | No |
| interface_id | refers to the service interface for which this is an address | No |
| is_configured | a boolean value indicating whether the address is a configured one or an operational/registered address | No |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event. | No |

# Miscellaneous Passport Configuration-specific switch-mastered model tables

The switch-mastered model tables contains the following entities specific to Passport configuration:

- "ADMIN_PASSPORT_LPS" (page 46)

- "ADMIN_PASSPORT_LP_USAGES" (page 47)

- "ADMIN_VIRTUAL_FRAMER_GATEWAYS" (page 49)

## ADMIN_PASSPORT_LPS

The ADMIN_PASSPORT_LPS entity represents the Passport LogicalProcessor component. For a description of attributes, see the table "ADMIN_PASSPORT_LPS attributes" (page 47).

**Table 27**
**ADMIN_PASSPORT_LPS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_PASSPORT_LPS entity | |
| device_id | the ID of the device on which the LP is implemented | No |
| lp_number | the LP instance number of the logical processor | No |
| main_card | the name of the LP's main card (as a Passport component name) | Yes |
| spare_card | the name of the LP's spare card (as a Passport component name) | Yes |
| software_features | the software features enabled for this logical processor | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |

## ADMIN_PASSPORT_LP_USAGES

The ADMIN_PASSPORT_LP_USAGES entity records the usage of Passport logical processors by other components. For a description of attributes, see the table "ADMIN_PASSPORT_LP_USAGES attributes" (page 48).

**Table 28**
**ADMIN_PASSPORT_LP_USAGES attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_PASSPORT_LP_USAGES entity | |
| device_id | the ID of the device on which the service and the LP is implemented | No |
| component_name | the name of the component which implements the service | No |
| lp_number | the instance number of the LP on which the component (identified by the component_name) is implemented. The LPs are named LP/*n* where *n* ranges from 0 to 15. Note that a negative number indicates that the service interface is not directly linked to an LP; it is linked to the LAPS/APS component. | No |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |

### ADMIN_VIRTUAL_FRAMER_GATEWAYS

The ADMIN_VIRTUAL_FRAMER_GATEWAYS entity represents a virtual-framer gateway for FrDte or IP-Optimized circuit access to a VPN. For a description of attributes, see the table "ADMIN_VIRTUAL_FRAMER_GATEWAYS attributes" (page 49)

**Table 29**
**ADMIN_VIRTUAL_FRAMER_GATEWAYS attributes**

| Attribute | Description | Optional |
|-----------|-------------|----------|
| id | a unique, system-generated identifier that identifies the ADMIN_VIRTUAL_FRAMER_GATEWAYS entity | |
| name | the name of the virtual framer gateway | No |
| device_id | the ID of the device on which the gateway is implemented | No |
| vfg_type | the type of gateway indicating its purpose | No |
| a_interface | the ID of the 'a' side interface of the gateway | Yes |
| z_interface | the ID of the 'z' side interface of the gateway | Yes |
| description | a free-form text field for descriptive information of the gateway or for annotations | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |

## IP VPN-specific switch-mastered model tables

The switch-mastered model tables contains the following IP VPN-specific entities:

- "ADMIN_IP_CORE_ROUTERS" (page 50)

- "ADMIN_VPN_ROUTING_FUNCTIONS" (page 51)

## ADMIN_IP_CORE_ROUTERS

The ADMIN_IP_CORE_ROUTERS entity represents core routers; provider-edge routers and routers not implemented on the network edge. For a description of attributes, see the table "ADMIN_IP_CORE_ROUTERS attributes" (page 50).

**Table 30**
**ADMIN_IP_CORE_ROUTERS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_IP_CORE_ROUTERS entity | |
| name | the name of the core router displayed in the application GUIs | No |
| device_id | the ID of the device on which the core router is provisioned | No |
| pe_network_id | the ID of the provider edge network which this core router implements. If this is not an edge router, the value is NULL. | Yes |
| component_name | the name of the provisioned component | Yes |
| core_router_type | the type of core router | No |
| route_reflector | indicates whether the core router is a route reflector. If the core router is a route reflector, then the peering topology of the associated provider edge network should be route reflector. | No |
| is_mpls_enabled | indicates whether the router is an MPLS label switching router (LSR) | No |
| ip_address | the IP address of the core router for RFC 2547. This is the address of the primary loopback interface. This attribute is not used for 2764 VCGs. | Yes |
| (Sheet 1 of 2) | | |

**Table 30**
**ADMIN_IP_CORE_ROUTERS attributes (continued)**

| Attribute | Description | Optional |
|---|---|---|
| asn | the autonomous system number (ASN) provisioned for BGP. This attribute is blank if BGP is not provisioned on the core router. | Yes |
| last_rd_assigned_num | The last system-assigned route distinguisher number for the core router. | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |
| description | a free-form text field for descriptive information of the core router or for annotations | Yes |
| (Sheet 2 of 2) | | |

## ADMIN_VPN_ROUTING_FUNCTIONS

This entity is extended with two mutually exclusive related entities; "ADMIN_2764_VRFS" (page 53) describes the entity that maintains additional information from VirtualRouters and "ADMIN_2547_VRFS" (page 54) describes the entity that maintains additional information about Router VirtualRouterForwarders.

For a description of attributes, see the table "ADMIN_VPN_ROUTING_FUNCTIONS" (page 52).

**Table 31**
**ADMIN_VPN_ROUTING_FUNCTIONS**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_VPN_ROUTING_FUNCTIONS entity | |
| device_id | The ID of the device on which the VRF is provisioned. | No |
| name | the name of the VPN routing function which is displayed in the VPN Monitor application | No |
| core_router_id | the ID of the core router which owns the VRF. This can be blank for Virtual Routers without VCGs. | Yes |
| component_name | the name of the provisioned component | No |
| is_internet_enabled | indicates whether the VRF provides access to the Internet. Currently, this attribute is not used by any application. | No |
| discovery_timestamp | indicates the timestamp of the last update of the object, either by service discovery or another application. The timestamp is the time when the provisioning actions were activated by the service provisioning tool, or when VPN discovery created the VPN. | No |
| discovery_status | indicates the status of the object with respect to any conflicts with the current network configuration. | No |
| discovery_issues | a record of the particular issues which cause the discovery_status of the VRF to be suspect. This attribute is not currently used. | No |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |
| description | a free-form text field for descriptive information of the VRF or for annotations | Yes |

## ADMIN_2764_VRFS

The ADMIN_2764_VRFS entity provides additional information for 2764 VPNs that is required by the applications. For a description of attributes, see the table "ADMIN_2764_VRFS" (page 53).

**Table 32**
**ADMIN_2764_VRFS**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_VPN_ROUTING_FUNCTIONS entity | |
| vrf_id | the ID of the parent VRF, if it is a customer VR. | Yes |
| core_router_id | the ID of the core router which owns the VRF, if the VRF is a VCG. | Yes |
| vpn_id | the standards compliant 2764 VPN ID | Yes |
| asn_2764 | the 2764 autonomous system number (ASN). All VRs in the same 2764 VPN must have the same ASN configured. | Yes |
| is_aggregation_enabled | indicates whether the VR supports aggregation | No |
| is_rte_refl_enabled | indicates whether the VR supports 2764 route reflection | No |
| topology | the topology role of the VR | Yes |
| core_ipcos_profile_id | the ID of the core-side IP CoS profile provisioned for the 2764 | Yes |
| dflt_access_ipcos_profile_id | the ID of the default access-side IP CoS profile provisioned for the 2764 | Yes |
| mbgp_rtg_pref | the VR's preference for MBGP routing | Yes |
| mbgp_max_imports | the VR's maximum number of imports for MBGP | Yes |
| mbgp_max_exports | the VR's maximum number of exports for MBGP | Yes |
| (Sheet 1 of 2) | | |

**Table 32**
**ADMIN_2764_VRFS (continued)**

| Attribute | Description | Optional |
|---|---|---|
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |
| (Sheet 2 of 2) | | |

## ADMIN_2547_VRFS

The ADMIN_2547_VRFS entity provides additional information for 2547 VPNs that is required by the applications. For a description of attributes, see the table "ADMIN_2547_VRFS" (page 54).

**Table 33**
**ADMIN_2547_VRFS**

| Attribute | Description | Optional |
|---|---|---|
| id | this id matches the id of the ADMIN_VPN_ROUTING_FUNCTIONS table | |
| is_extranet | indicates whether the RFC 2547 VRF is an extranet VRF. A VRF is an extranet VRF if it implements Route Targets owned by different customers. | No |
| rte_distinguisher | the value of the VRF route distinguisher | Yes |

**Table 33**
**ADMIN_2547_VRFS (continued)**

| Attribute | Description | Optional |
|---|---|---|
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |
| | | |

## ADMIN_IP_LOGICAL_INTERFACES

The ADMIN_IP_LOGICAL_INTERFACES entity provides customer access to a VRF and connects a CoreRouter into the IP network. This entity is loaded, by the DB Synchronization server, into the database from the VirtualRouter ProtocolPort IpPort LogicaInteface component and the Router Interface component in Passport. For a description of attributes, see the table "ADMIN_IP_LOGICAL_INTERFACES attributes" (page 55)

**Table 34**
**ADMIN_IP_LOGICAL_INTERFACES attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_IP_LOGICAL_INTERFACES entity | |
| core_router_id | the ID of the core router to which this is a logical interface. | See note |
| vrf_id | the ID of the VRF to which this is a logical interface | See note |
| Note: Either core_router_id or vrf_id is specified, but not both. At least one of these attributes is mandatory. | | |
| component_name | the name of the provisioned component | No |
| (Sheet 1 of 2) | | |

**Table 34**
**ADMIN_IP_LOGICAL_INTERFACES attributes (continued)**

| Attribute | Description | Optional |
|---|---|---|
| ip_medium_id | the ID of the IP medium to which this interface provides access to the VPN (for VRF interfaces) or the IP network (for core router interfaces) | Yes |
| ip_address | the IP address of the logical interface | No |
| ip_address_mask | the IP subnet mask of the logical interface | No |
| mpls_interface_type | indicates the MPLS label-distribution protocol implemented on the interface | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |
| (Sheet 2 of 2) | | |

## ADMIN_IP_MEDIA

The ADMIN_IP_MEDIA entity provides the link between circuit or non-circuit access methods and an IP Logical Interface. For a description of attributes, see the table "ADMIN_IP_MEDIA" (page 56).

**Table 35**
**ADMIN_IP_MEDIA**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_IP_MEDIA entity | |
| core_router_id | the ID of the core router with which the IP medium is associated. | See note |
| vrf_id | the ID of the VRF with which the IP medium is associated. | See note |
| (Sheet 1 of 2) | | |

**Table 35**
**ADMIN_IP_MEDIA (continued)**

| Attribute | Description | Optional |
|---|---|---|
| Note: Either core_router_id or vrf_id is specified, but not both. At least one of these attributes is mandatory. | | |
| component_name | the name of the provisioned component | No |
| ipcos | the Passport IP CoS key for the IP medium. This only applies to the PPP, LAN and ENET media. | Yes |
| ipcos_profile_comp_name | the name of the associated IP CoS profile component name. | Yes |
| protocol_port | the name of the linked VirtualRouter ProtocolPort component. This is the verbatim value of the linkToProtocolPort attribute of the Passport component. This attribute is blank for RFC 2547 VPN media because the protocol port does not exist in this model. | Yes |
| vm_if_mode | the value of the mode attribute. This only applies to the VirtualMedia Interface component type (RFC 2764 VPN) and the Loopback component (RFC 2547 VPN) of a Router or Router VirtualRouterForwarder. | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |
| (Sheet 2 of 2) | | |

## ADMIN_PTMP_TUNNELS

The ADMIN_PTMP_TUNNELS entity represents the VrIP Tunnel component on Passport for 2764. For a description of attributes, see the table "ADMIN_PTMP_TUNNELS attributes" (page 58).

**Table 36**
**ADMIN_PTMP_TUNNELS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_PTMP_TUNNELS entity | |
| core_router_lo_id | the ID of the public logical interface at the other end of the tunnel | Yes |
| vrf_lo_id | the ID of the private logical interface at one end of the tunnel | Yes |
| component_name | the name of the provisioned component | Yes |
| is_autodiscovery_enabled | indicates whether auto-discovery is enabled for the tunnel | No |
| source_ip_address | the source IP address of the tunnel | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |

## ADMIN_2547_BGP_PEERS

The ADMIN_2547_BGP_PEERS entity represents the BGP peering relationship between provider-edge routers in an RFC 2547 Provider Edge Network. For a description of attributes, see the table "ADMIN_2547_BGP_PEERS" (page 59).

**Table 37**
**ADMIN_2547_BGP_PEERS**

| Attribute | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the 2547_BGP_PEERS entity | |
| core_router_id | the ID of the core router that implements the peer configuration | No |
| peer_address | the IP address of another router which is a peer of the router identified by the core_router_id attribute. | No |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |

## ADMIN_IP_VCS

The ADMIN_IP_VCS entity represents the IP Access of the services. For a description of attributes, see the table "ADMIN_IP_VCS attributes" (page 59).

*Note:* This entity cannot be used independently from the CIRCUIT_ENDPOINTS entity. For more information, see "ADMIN_CIRCUIT_ENDPOINTS" (page 61).

**Table 38**
**ADMIN_IP_VCS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | this id matches the id of the master table | |
| ip_medium_id | the ID of the IP medium through which the connection accessed a VPN | Yes |

**Table 38**
**ADMIN_IP_VCS attributes (continued)**

| Attribute | Description | Optional |
|---|---|---|
| ip_logical_interface_id | the ID of the particular logical interface through which the connection accessed the VPN if this is provisioned | Yes |
| ipcos | the Passport IP CoS key for the access circuit | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |

# Passport-specific endpoint switch-mastered model tables

The Passport-specific endpoint model describes a persistent cache of Passport endpoint configuration data that is maintained for convenience. This model stores Passport configuration attributes in the service entities that do not relate directly to the structure of the service. The purpose of the model is to

- index Passport component attributes that are search criteria or display attributes in the tools

- support a two-stage synchronization and discovery process

- separate Passport-specific data from non-Passport-specific data in the switch mastered data model

The customer model contains the ADMIN_CIRCUIT-ENDPOINTS entity plus the following service-specific entities:

- "ADMIN_PASSPORT_ATM_VCS attributes" (page 62)

- "ADMIN_PASSPORT_FR_DLCIS attributes" (page 63)

- "ADMIN_PASSPORT_FRF8_DLCIS attributes" (page 64)

## ADMIN_CIRCUIT_ENDPOINTS

The ADMIN_CIRCUIT_ENDPOINTS entity represents a connection component on the Passport. The service-specific entities provide additional information about CIRCUIT_ENDPOINT.

**Table 39**
**ADMIN_CIRCUIT_ENDPOINTS attributes**

| Attributes | Description | Optional |
|---|---|---|
| id | a unique, system-generated identifier that identifies the ADMIN_CIRCUIT_ENDPOINTS entity | |
| node_name | the name of the node on which the endpoint is configured. The combination of this attribute and instance_name is unique. | No |
| instance_name | the name of the endpoint instance (for example, AtmIf/100 Vcc/0.35) on the node. The combination of this attribute and the node_name is unique. | No |
| correlation_tag | refers to the on-switch correlationTag attribute (for those connections which support it) | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |
| | | |

## ADMIN_PASSPORT_ATM_VCS

The ADMIN_PASSPORT_ATM_VCS entity represents an ATM Vcc or Vpc component on a Passport. For a description of attributes, see the table "ADMIN_PASSPORT_ATM_VCS attributes" (page 62).

**Table 40**
**ADMIN_PASSPORT_ATM_VCS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | this id matches the id of the master table | |
| next_hop | refers, for nailed-up Vcs, to the cross-connected Vc (from the Vcc Nrp or Vpc Nrp) | Yes |
| application_name | refers, for circuit terminations, to the terminating application (from the Vcc Nep). It also indicates the linked Atm PF Vec Nep for AtmMpe Acs. | Yes |
| called_address | the NSAP of the called end of the circuit, for SPVCs and SPVPs (from the Vcc Src, Vpc Src or AtmMpe Ae SrePve) | Yes |
| called_conn_id | the connection identifier of the called end, for SPVCs and SPVPs (from the Vcc Src calledVpiVci, Vpc Src calledVpi or AtmMpe Ae SrePve) | Yes |
| admin_control | the provisioned admin state, for SPVCs and SPVPs (from the Vcc Src or Vpc Src) | Yes |
| ais_generation | the flag to enable AIS signals, for SPVCs and SPVPs (from the Vcc Src, Vpc Src, Vcc Dst Config, or Vpc Dst Config) | Yes |
| primary_dtl | Manual DTL attributes for SPVCs and SPVPs (from the Vcc Src Mdtl and Vpc Src Mdtl) | Yes |
| alternative_dtl | Manual DTL attributes for SPVCs and SPVPs (from the Vcc Src Mdtl and Vpc Src Mdtl) | Yes |
| automatic_fallback | Manual DTL attributes for SPVCs and SPVPs (from the Vcc Src Mdtl and Vpc Src Mdtl) | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |

## ADMIN_PASSPORT_FR_DLCIS

The ADMIN_PASSPORT_FR_DLCIS entity represents FR connections on a Passport. For a description of attributes, see the table "ADMIN_PASSPORT_FR_DLCIS attributes" (page 63).

**Table 41**
**ADMIN_PASSPORT_FR_DLCIS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | this id matches the id of the master table | |
| dlci_type | the master/slave/backup/spvc type of the Dlci from the type attribute of FRUni/FrNni Dlci Dc component. The values for FrDte StDlci, FrUni Dlci IPConn and IP DlciGrp Frc values are hard coded as Static IpOpt and FrConn respectively. | Yes |
| remote_dna | the DNA of the remote endpoint (from the Dlci Dc) | Yes |
| remote_npi | the NPI of the remote endpoint (from the Dlci Dc) | Yes |
| remote_dlci | the DLCI number of the remote endpoint (from the Dlci Dc) | No |
| ipopt_frconn_id | the ID of the linked component. This is a cross reference between the Dlci and Frc components which are linked on Passport. For records representing a Dlci, this attribute is the ID of the linked Frc component; for records representing an Frc, this attribute is the ID of the linked Dlci. | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |

## ADMIN_PASSPORT_FRF8_DLCIS

The ADMIN_PASSPORT_FRF8_DLCIS entity represents a FR/ATM FRF.8 (service interworking) Dlci component on a Passport. This entity combines NPVC and SPVC types. For a description of attributes, see the table "ADMIN_PASSPORT_FRF8_DLCIS attributes" (page 64).

**Table 42**
**ADMIN_PASSPORT_FRF8_DLCIS attributes**

| Attribute | Description | Optional |
|---|---|---|
| id | this id matches the id of the master table | |
| atm_connection | cross-connect to an ATM Vcc, for FRF.8 NPVC (from the Dlci Siwf Npvc) | Yes |
| remote_address | the address of the remote endpoint. for FRF.8 SPVC (from the Dlci Siwf Spvc) | Yes |
| remote_connection_id | the connection ID of the remote endpoint (from the Dlci Siwf Spvc) | Yes |
| synch_timestamp | a timestamp indicating when the record was last updated. When a record is updated or added by an application, the timestamp is the activation time of the view in which the component was provisioned. When the record is updated by the synchronization phase of the population process, the timestamp is the activation-timestamp of the view from which the component is synchronized. | No |
| synch_status | indicates the status of a record with respect to the last synchronization event | No |

# Chapter 2
# Administration Database Schema

The database schema contains the following objects:

# ADMIN_SCHEMA_VERSION

| Column Name | DataType | Value |
| --- | --- | --- |
| id | NUMBER(18) | NOT NULL PRIMARY KEY, |
| ver_no | VARCHAR2(8) | NOT NULL, |
| vendor_name | VARCHAR2(32) | NOT NULL, |
| migrated_from | VARCHAR2(8) | |
| mdm_version | VARCHAR2(8) | NOT NULL |
| | | |

# ADMIN_COMPONENT_MAPPINGS

| Column Name | DataType | Value |
| --- | --- | --- |
| comp_path | VARCHAR2(255) | NOT NULL |
| table_name | VARCHAR2(30) | NOT NULL |
| attribute_mapping_id | NUMBER(10) | NULL if no attributes need to be mapped |
| | | |

# ADMIN_ATTRIBUTE_MAPPINGS

| Column Name | DataType | Value |
| --- | --- | --- |
| attribute_mapping_id | NUMBER(10) | NOT NULL |
| attr_name | VARCHAR2(240) | NOT NULL |
| col_tab_name | VARCHAR2(30) | NOT NULL |
| comp_path | VARCHAR2(255) | |
| | | |

# ADMIN_NODE_VIEW

| Column Name | DataType | Value |
|---|---|---|
| node_name | VARCHAR2(16) | NOT NULL PRIMARY KEY, |
| last_activation_timestamp | DATE | |
| last_activation_tag | NUMBER(5) | |
| last_view_name | VARCHAR2(80) | |
| last_journal_number | NUMBER(18) | |
| last_view_timestamp | DATE | |
| last_journal_timestamp | DATE | NULL if last file loaded is view file |
| discovery_status | VARCHAR2(16) | NOT DISCOVERED, SUCCESS, FAILED |

# ADMIN_NODE_HISTORY

| Column Name | DataType | Value |
|---|---|---|
| node_name | VARCHAR2(16) | NOT NULL, |
| load_seq | NUMBER(18) | NOT NULL, |
| view_name | VARCHAR2(80) | |
| journal_number | NUMBER(18) | |
| activation_timestamp | DATE | |
| activation_tag | NUMBER(5) | |
| load_status | VARCHAR2(16) | |
| load_timestamp | DATE | |
| dbsync_id | VARCHAR2(60) | |
| view_timestamp | DATE | |
| journal_timestamp | DATE | NULL if a view file is loaded |
| error_details | VARCHAR2(2000) | |

# ADMIN_CUSTOMERS

| Column Name | DataType | Value |
| --- | --- | --- |
| id | NUMBER(18) | NOT NULL PRIMARY KEY, |
| name | VARCHAR2(128) | NOT NULL, |
| is_default | CHAR(1) | N, Y |
| is_service_provider | CHAR(1) | N, Y |
| isp_asn | NUMBER(5) | 0 - 65535 |
| last_rt_assigned_num | NUMBER(5) | |
| business_category | VARCHAR2(128), | |
| country | VARCHAR2(32), | |
| state_or_province | VARCHAR2(32), | |
| city | VARCHAR2(32), | |
| street | VARCHAR2(60), | |
| postal_code | VARCHAR2(32), | |
| registered_address | VARCHAR2(240), | |
| telephone_number | VARCHAR2(24), | |
| fax_number | VARCHAR2(24), | |
| email | VARCHAR2(64), | |
| description | VARCHAR2(2000) | |

# ADMIN_CONTACTS

| Column Name | DataType | Value |
| --- | --- | --- |
| id | NUMBER(18) | NOT NULL PRIMARY KEY, |
| customer_id | NUMBER(18) | NOT NULL references ADMIN_CUSTOMERS |
| last_name | VARCHAR2(32) | NOT NULL, |
| first_name | VARCHAR2(32) | NOT NULL, |
| (Sheet 1 of 2) | | |

| Column Name | DataType | Value |
|---|---|---|
| title | VARCHAR2(32) | |
| country | VARCHAR2(32) | |
| state_or_province | VARCHAR2(32) | |
| city | VARCHAR2(32) | |
| street | VARCHAR2(60) | |
| postal_code | VARCHAR2(32) | |
| registered_address | VARCHAR2(240) | |
| telephone_number | VARCHAR2(24) | |
| fax_number | VARCHAR2(24) | |
| email | VARCHAR2(64) | |
| description | VARCHAR2(2000) | |
| (Sheet 2 of 2) | | |

## ADMIN_TM_PROFILES

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL PRIMARY KEY, |
| name | VARCHAR2(60) | NOT NULL, |
| version_number | NUMBER(10) | NOT NULL, |
| creation_date | DATE | NOT NULL, |
| description | VARCHAR2(2000) | |
| tm_profile_type | VARCHAR2(16) | ATM,FR,IP,UNKNOWN |
| provisioned_name | VARCHAR2(20) | INSTANCE NAME |
| profile_def | VARCHAR2(4000) | XML |
| | | |

# ADMIN_CIRCUITS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL PRIMARY KEY, |
| name | VARCHAR2(128) | NOT NULL, |
| service_type | VARCHAR2(8) | NOT NULL, |
| circuit_type | VARCHAR2(24) | NOT NULL, |
| customer_id | NUMBER(18) | NOT NULL references ADMIN_CUSTOMERS |
| a_interface | NUMBER(18), | references ADMIN_SERVICE_INTERFACES |
| a_connection | VARCHAR2(20), | |
| a_endpoint | NUMBER(18), | references ADMIN_CIRCUIT_ENDPOINTS |
| a_tm_profile | NUMBER(18), | references ADMIN_TM_PROFILES |
| z_interface | NUMBER(18), | references ADMIN_SERVICE_INTERFACES |
| z_connection | VARCHAR2(20), | |
| z_endpoint | NUMBER(18), | references ADMIN_CIRCUIT_ENDPOINTS |
| z_tm_profile | NUMBER(18), | references ADMIN_TM_PROFILES |
| current_hop_version_number | NUMBER(10) | DEFAULT 0 NOT NULL, |
| description | VARCHAR2(2000), | |
| composite_id | NUMBER(18), | references ADMIN_COMPOSITE CIRCUITS |
| (Sheet 1 of 2) | | |

| Column Name | DataType | Value |
| --- | --- | --- |
| access_point_id | NUMBER(18) | references ADMIN_IP_ACCESS_POINTS |
| seq_in_composite | NUMBER(10), | |
| discovery_timestamp | DATE | NOT NULL, |
| discovery_status | CHAR(1) | N= normal O=obsolete |
| (Sheet 2 of 2) | | |

## ADMIN_NPVC_HOPS

| Column Name | DataType | Value |
| --- | --- | --- |
| id | NUMBER(18) | NOT NULL PRIMARY KEY, |
| circuit_id | NUMBER(18) | references ADMIN_CIRCUITS |
| sequence_number | NUMBER(10) | NOT NULL, if order cannot be determined, value is 0 |
| version_number | NUMBER(10) | 0, currently not used |
| a_interface | NUMBER(18) | NOT NULL, references ADMIN_SERVICE_INTERFACES |
| a_connection | VARCHAR2(20) | NOT NULL, |
| a_endpoint | NUMBER(18), | references ADMIN_CIRCUITS_ENDPOINTS |
| a_tm_profile | NUMBER(18), | references ADMIN_TM_PROFILES |
| z_interface | NUMBER(18) | NOT NULL references ADMIN_SERVICE_INTERFACES |
| z_connection | VARCHAR2(20) | NOT NULL, |
| (Sheet 1 of 2) | | |

| Column Name | DataType | Value |
|---|---|---|
| z_endpoint | NUMBER(18), | references ADMIN_CIRCUIT_ENDPOIN TS |
| z_tm_profile | NUMBER(18), | references ADMIN_TM_PROFILES |
| discovery_timestamp | DATE | NOT NULL, |
| discovery_status | CHAR(1) | NOT NULL, |
| (Sheet 2 of 2) | | |

## ADMIN_COMPOSITE_CIRCUITS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL references ADMIN_CUSTOMERS |
| name | VARCHAR2 (128) | NOT NULL, |
| service_type | VARCHAR2 (24) | FR with Backups, FR IP VPN Access |
| circuit_type | VARCHAR2(24) | FR with backups, FR IP VPN access |
| customer_id | NUMBER (18) | NOT NULL, |
| parent_id | NUMBER (18) | references ADMIN_COMPOSITE_CIRC UITS |
| access_point_id | NUMBER(18) | references ADMIN_IP_ACCESS_POINT S |
| seq_in_parent | NUMBER (10) | |
| description | VARCHAR2 (2000) | |
| discovery_timestamp | DATE | NOT NULL |
| discovery_status | CHAR(1) | N= normal, C= complete O= obsolete |
| (Sheet 1 of 2) | | |

| Column Name | DataType | Value |
|---|---|---|
| a_endpoint | NUMBER (18) | references ADMIN_CIRCUIT_ENDPOINTS |
| z_endpoint | NUMBER (18) | references ADMIN_CIRCUIT_ENDPOINTS |
| (Sheet 2 of 2) | | |

## ADMIN_SITES

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | |
| name | VARCHAR2 (128) | NOT NULL, |
| customer_id | NUMBER (18) | NOT NULL, references ADMIN_CUSTOMERS |
| site_of_origin_2547 | VARCHAR2(128) | 0 - 128 |
| max_routes | NUMBER(5) | 0 - $2^{31}$-1 |
| allows_extranet | CHAR(1) | NOT NULL |
| discovery_timestamp | DATE | NOT NULL |
| discovery_status | CHAR(1) | N= normal, C= complete O= obsolete |
| description | VARCHAR2 (2000) | |
| | | |

## ADMIN_IP_ACCESS_POINTS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| name | VARCHAR2(128) | NOT NULL |
| (Sheet 1 of 2) | | |

| Column Name | DataType | Value |
|---|---|---|
| site_id | NUMBER(18) | NOT NULL, references ADMIN_SITES |
| seq_in_site | NUMBER(10) | NOT NULL |
| ip_logical_interface_id | NUMBER(18) | NOT NULL, references ADMIN_IP_LOGICAL_INTER FACES |
| discovery_timestamp | DATE | NOT NULL |
| discovery_status | CHAR(1) | N= normal, C= complete O= obsolete |
| description | VARCHAR2(2000) | |
| (Sheet 2 of 2) | | |

## ADMIN_VIRTUAL_PRIVATE_NETWORKS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| name | VARCHAR2(60) | NOT NULL |
| vpn_type | VARCHAR2(12) | 2764,2764 Static, Direct, 2547 |
| vpn_id | VARCHAR2(20) | 7 octets separated by dashes |
| customer_id | VARCHAR2(18) | NOT NULL, references ADMIN_CUSTOMERS |
| pe_network_id | VARCHAR2(18) | NOT NULL, references ADMIN_PROVIDER_EDGE_ NETWORKS |
| asn_2764 | NUMBER(5) | 0- 65535 |
| is_ 2764_mbgp_enabled | CHAR(1) | N,Y |
| max_access_points | NUMBER(5) | 0- 65535 |
| role_definitions | VARCHAR2(2000) | XML |
| (Sheet 1 of 2) | | |

| Column Name | DataType | Value |
|---|---|---|
| discovery_timestamp | DATE | NOT NULL |
| discovery_status | CHAR(1) | N= normal O= obsolete |
| description | VARCHAR2(2000) | |
| (Sheet 2 of 2) | | |

# ADMIN_VPN_PRIV_ADDR_POOLS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| vpn_id | NUMBER(18) | NOT NULL, references ADMIN_VIRTUAL_PRIVATE_NETWORKS |
| ip_address | VARCHAR2(40) | NOT NULL |
| ip_address_mask | VARCHAR2(40) | NOT NULL |
| vrf_id | NUMBER(18) | references ADMIN_VPN_ROUTING_FUNCTIONS |
| parent_id | NUMBER(18) | references ADMIN_VPN_PRIV_ADDR_POOLS |
| description | VARCHAR2(2000) | |
| | | |

# ADMIN_CR_PUB_ADDR_POOLS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| ip_core_router_id | NUMBER(18) | NOT NULL, references ADMIN_IP_CORE_ROUTERS |
| ip_address | VARCHAR2(40) | NOT NULL |
| (Sheet 1 of 2) | | |

| Column Name | DataType | Value |
|---|---|---|
| ip_address_mask | VARCHAR2(40) | NOT NULL |
| description | VARCHAR2(2000) | |
| (Sheet 2 of 2) | | |

## ADMIN_PROVIDER_EDGE_NETWORKS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| name | VARCHAR2(60) | NOT NULL |
| pe_network_type | VARCHAR2(12) | 2764,2547 |
| is_internet_enabled | CHAR(1) | N, Y |
| asn | NUMBER(5) | 0 - 65535 |
| peering_topology | VARCHAR2(16) | mesh, route reflector |
| discovery_timestamp | DATE | N= normal O= obsolete |
| discovery_status | CHAR(1) | N,S,O |
| description | VARCHAR2(2000) | |
| | | |

## ADMIN_ROUTE_TARGETS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| route_target | VARCHAR2(60) | NOT NULL |
| customer_id | NUMBER(18) | NOT NULL, references ADMIN_CUSTOMERS |
| description | VARCHAR2(2000) | |
| discovery_timestamp | DATE | NOT NULL |
| discovery_status | CHAR(1) | N= normal, O= obsolete |
| | | |

# ADMIN_VRF_RT_USAGES

| Column Name | DataType | Value |
| --- | --- | --- |
| id | NUMBER(18) | NOT NULL, PRIMARY KEY |
| vrf_id | VARCHAR2(18) | NOT NULL, references ADMIN_VPN_ROUTING_FUNCTIONS |
| route_target | VARCHAR2(60) | NOT NULL |
| route_target_id | VARCHAR2(18) | NULL or references ADMIN_ROUTE_TARGETS |
| is_import | CHAR(1) | NOT NULL, YES or NO |
| is_export | CHAR(1) | NOT NULL, YES or NO |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |

# ADMIN_VPN_RT_USAGES

| Column Name | DataType | Value |
| --- | --- | --- |
| vpn_id | VARCHAR2(18) | NOT NULL, references ADMIN_VIRTUAL_PRIVATE_NETWORKS |
| route_target_id | VARCHAR2(18) | NOT NULL, references ADMIN_ROUTE_TARGETS |

# ADMIN_VPN_MEMBERSHIPS

| Column Name | DataType | Value |
| --- | --- | --- |
| id | NUMBER(18) | NOT NULL |
| vrf_id | VARCHAR2(18) | NOT NULL, references ADMIN_VPN_ROUTING_FUNCTIONS |

(Sheet 1 of 2)

| Column Name | DataType | Value |
|---|---|---|
| vpn_id | VARCHAR2(18) | NOT NULL, references ADMIN_VIRTUAL_PRIVATE_NETWORKS |
| vpn_role | VARCHAR2(32) | NOT NULL |
| discovery_timestamp | DATE | NOT NULL |
| discovery_status | CHAR(1) | N= normal, O= obsolete |
| (Sheet 2 of 2) | | |

## ADMIN_VPNMON_SERVICE_UIDS

| Column Name | DataType | Value |
|---|---|---|
| vpn_monitor_uid | NUMBER(18) | NOT NULL |
| admin_table_name | VARCHAR2(30) | NOT NULL |
| admin_object_id | NUMBER(18) | NOT NULL ($9.22 \times 10^{18}$) |
| | | |

## ADMIN_DEVICES

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL PRIMARY KEY, |
| name | VARCHAR2(32) | NOT NULL, |
| vendor_name | VARCHAR2(32) | NOT NULL, |
| node_type | VARCHAR2(32), | |
| address_prefix | VARCHAR2(60), | |
| synch_timestamp | DATE | NOT NULL, |
| synch_status | CHAR(1) | N=normal, A=added by synchronization, U=updated component attribute, D=deleted |
| | | |

# ADMIN_FACILITIES

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL PRIMARY KEY, |
| name | VARCHAR2(60) | NOT NULL, |
| facility_id | VARCHAR2(128), | |
| device_id | NUMBER(18) | NOT NULL, references ADMIN_DEVICES |
| interface_id | NUMBER(18), | references ADMIN_SERVICE_INTERFACES |
| synch_timestamp | DATE | NOT NULL, |
| synch_status | CHAR(1) | N=normal, A=added by synchronization, U=updated component attribute, D=deleted |

# ADMIN_SERVICE_INTERFACES

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL PRIMARY KEY, |
| name | VARCHAR2(120) | NOT NULL, |
| interface_type | VARCHAR2(12) | ATMIF, FRUNI, FRNNI, FRATM, TRK,FRDTE,IPDLCIGRP,ATMMPE, IPODLCI |
| device_id | NUMBER(18) | NOT NULL, references ADMIN_DEVICES |
| customer_id | NUMBER(18) | NOT NULL, references ADMIN_CUSTOMERS |
| remote_interface | NUMBER(18), | references ADMIN_SERVICE_INTERFACES |

(Sheet 1 of 2)

| Column Name | DataType | Value |
|---|---|---|
| remote_interface_label | VARCHAR2(60) | |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | NOT NULL |
| (Sheet 2 of 2) | | |

## ADMIN_INTERFACE_ADDRESSES

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL PRIMARY KEY, |
| address | VARCHAR2(60) | NOT NULL, |
| npi | VARCHAR2(4) | NOT NULL, |
| interface_id | NUMBER(18) | NOT NULL, references ADMIN_SERVICE_INTERFACES |
| is_configured | CHAR(1) | Y, N |
| synch_timestamp | DATE | NOT NULL, |
| synch_status | CHAR(1) | NOT NULL |
| | | |

## ADMIN_PASSPORT_LPS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| device_id | VARCHAR2(18) | NOT NULL, references ADMIN_DEVICES |
| lp_number | NUMBER(2) | 0-15 |
| main_card | VARCHAR2(60) | |
| spare_card | VARCHAR2(60) | |
| software_features | VARCHAR2(512) | |
| (Sheet 1 of 2) | | |

| Column Name | DataType | Value |
|---|---|---|
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |
| (Sheet 2 of 2) | | |

## ADMIN_PASSPORT_LP_USAGES

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| device_id | VARCHAR2(18) | NOT NULL, references ADMIN_DEVICES |
| component_name | VARCHAR2(120) | NOT NULL |
| lp_number | NUMBER(2) | 0-15 |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |
| | | |

## ADMIN_VIRTUAL_FRAMER_GATEWAYS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| name | VARCHAR2(60) | NOT NULL |
| device_id | VARCHAR2(18) | NOT NULL, references ADMIN_DEVICES |
| vfg_type | VARCHAR2(16) | FrAtm, FrVrAccess,Other |
| a_interface | VARCHAR2(18) | NOT NULL, references ADMIN_SERVICE_INTERFACES |
| z_interface | VARCHAR2(18) | NOT NULL, references ADMIN_SERVICE_INTERFACES |
| description | VARCHAR2(2000) | |
| (Sheet 1 of 2) | | |

| Column Name | DataType | Value |
|---|---|---|
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |
| (Sheet 2 of 2) | | |

# ADMIN_IP_CORE_ROUTERS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| name | VARCHAR2(60) | NOT NULL |
| device_id | VARCHAR2(18) | NOT NULL, references ADMIN_DEVICES |
| pe_network_id | VARCHAR2(18) | NULL or references ADMIN_PROVIDER_EDGE_ NETWORKS |
| component_name | VARCHAR2(120) | NOT NULL |
| core_router_type | VARCHAR2 | 2547,2764 |
| route_reflector | CHAR(1) | NOT NULL |
| is_mpls_enabled | CHAR(1) | Y, N |
| ip_address | VARCHAR2(40) | |
| asn | NUMBER(5) | 0-65535 |
| last_rd_assigned_num | NUMBER(5) | |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |
| description | VARCHAR2(2000) | |
| | | |

## ADMIN_VPN_ROUTING_FUNCTIONS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| device_id | NUMBER(18) | NOT NULL |
| name | VARCHAR2(60) | NOT NULL |
| core_router_id | VARCHAR2(18) | NULL or references ADMIN_IP_CORE_ROUTERS |
| component_name | VARCHAR2(120) | NOT NULL |
| is_internet_enabled | CHAR(1) | Y, N |
| discovery_timestamp | DATE | NOT NULL |
| discovery_status | CHAR(1) | N,S,O |
| discovery_issues | VARCHAR2(2000) | XML |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N= normal O=obsolete |
| description | VARCHAR2(2000) | |
| | | |

## ADMIN_IP_LOGICAL_INTERFACES

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| core_router_id | VARCHAR2(18) | references ADMIN_IP_CORE_ROUTERS |
| vrf_id | VARCHAR2(18) | references ADMIN_VPN_ROUTING_FUNCTIONS (for VRF interfaces) |
| component_name | VARCHAR2(120) | NOT NULL |
| ip_medium_id | VARCHAR2(18) | references ADMIN_IP_MEDIA |
| ip_address | VARCHAR2(40) | NOT NULL |
| (Sheet 1 of 2) | | |

| Column Name | DataType | Value |
|---|---|---|
| ip_address_mask | VARCHAR2(40) | NOT NULL |
| mpls_interface_type | VARCHAR2(12) | LDP, RSVP-TE |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |
| (Sheet 2 of 2) | | |

## ADMIN_IP_MEDIA

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| core_router_id | VARCHAR2(18) | references ADMIN_IP_CORE_ROUTERS (for core router media) |
| vrf_id | VARCHAR2(18) | references ADMIN_VPN_ROUTING_FUNCTIONS (for VRF media) |
| component_name | VARCHAR2(120) | NOT NULL |
| ipcos | NUMBER | 0,3 |
| ipcos_profile_comp_name | VARCHAR2(60) | |
| protocol_port | VARCHAR2(60) | |
| vm_if_mode | VARCHAR2(32) | AlwaysUpinterface, alwaysUpSummaryInterface, interVRConnection, primaryloopback |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |
| | | |

## ADMIN_PTMP_TUNNELS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| core_router_lo_id | NUMBER(18) | NULL or references ADMIN_IP_LOGICAL_INTERFACES |
| vrf_lo_id | NUMBER(18) | NULL or references ADMIN_IP_LOGICAL_INTERFACES |
| component_name | VARCHAR2(120) | NOT NULL |
| is_autodiscovery_enabled | CHAR(1) | Y, N |
| source_ip_address | VARCHAR2(40) | NOT NULL |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |

## ADMIN_2547_BGP_PEERS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL |
| core_router_id | VARCHAR2(18) | NOT NULL, references ADMIN_ADMIN_IP_CORE_ROUTERS |
| peer_address | VARCHAR2(40) | NOT NULL |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |

**ADMIN_2764_VRFS**

| Column Name | DataType | Value |
| --- | --- | --- |
| id | NUMBER(18) | NOT NULL, PRIMARY KEY, references ADMIN_VPN_ROUTING_FUNCTIONS |
| vrf_id | NUMBER(18) | references ADMIN_VPN_ROUTING_FUNCTIONS |
| core_router_id | NUMBER(18) | NOT NULL, references ADMIN_IP_CORE_ROUTERS |
| vpn_id | VARCHAR2(20) | 7 octets separated by dashes |
| asn_2764 | NUMBER(5) | 0 - 65535 |
| is_aggregation_enabled | CHAR(1) | NOT NULL |
| is_rte_refl_enabled | CHAR(1) | Y, N |
| topology | VARCHAR2 | hub, spoke |
| core_ipcos_profile_id | NUMBER18) | references ADMIN_TM_PROFILES |
| dflt_access_ipcos_profile_id | NUMBER(18) | references ADMIN_TM_PROFILES |
| mbgp_rtg_pref | NUMBER (5) | 0 - 253 |
| mbgp_max_imports | NUMBER(5) | 0 - 65535 |
| mbgp_max_exports | NUMBER(5) | 0 - 65535 |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |

**ADMIN_2547_VRFS**

| Column Name | DataType | Value |
| --- | --- | --- |
| id | NUMBER(18) | NOT NULL, PRIMARY KEY references ADMIN_VPN_ROUTING_FUNCTIONS |
| is_extranet | CHAR(1) | Y, N |
| rte_distinguisher | VARCHAR2(60) | |
| | | |

# ADMIN_IP_VCS

| Column Name | DataType | Value |
| --- | --- | --- |
| id | NUMBER(18) | NOT NULL, PRIMARY KEY references ADMIN_CIRCUIT_ENDPOINTS |
| ip_medium_id | VARCHAR2(18) | references ADMIN_IP_MEDIA |
| ip_logical_interface_id | VARCHAR2(18) | references ADMIN_IP_LOGICAL_INTERFACES |
| ipcos | NUMBER(5) | NOT NULL (0-3) |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | NOT NULL |
| | | |

# ADMIN_CIRCUIT_ENDPOINTS

| Column Name | DataType | Value |
| --- | --- | --- |
| id | NUMBER(18) | NOT NULL |
| node_name | VARCHAR2(32) | NOT NULL |
| instance_name | VARCHAR2(60) | NOT NULL |
| (Sheet 1 of 2) | | |

| Column Name | DataType | Value |
|---|---|---|
| correlation_tag | VARCHAR2(32) | |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |
|  (Sheet 2 of 2) | | |

## ADMIN_PASSPORT_ATM_VCS

| Column Name | DataType | Value |
|---|---|---|
| id | NUMBER(18) | NOT NULL, PRIMARY KEY references ADMIN_CIRCUIT_ENDPOINTS |
| next_hop | VARCHAR2(60) | |
| application_name | VARCHAR2(60) | |
| called_address | VARCHAR2(40) | |
| called_conn_id | VARCHAR2(10) | |
| admin_control | VARCHAR2 | permLocked, unlocked |
| ais_generation | CHAR(1) | |
| primary_dtl | VARCHAR2(32) | |
| alternative_dtl | VARCHAR2(32) | |
| automatic_fallback | CHAR(1) | |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |

## ADMIN_PASSPORT_FR_DLCIS

| Column Name | DataType | Value |
| --- | --- | --- |
| id | NUMBER(18) | NOT NULL, PRIMARY KEY references ADMIN_CIRCUIT_ENDPOINTS |
| dlci_type | VARCHAR2(32) | NOT NULL, |
| remote_dna | VARCHAR2(15) | can be NULL |
| remote_npi | VARCHAR2(4) | can be NULL |
| remote_dlci | NUMBER(4) | can be NULL |
| ipopt_frconn_id | VARCHAR2(18) | references ADMIN_CIRCUIT_ENDPOINTS |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | NOT NULL |

## ADMIN_PASSPORT_FRF8_DLCIS

| Column Name | DataType | Value |
| --- | --- | --- |
| id | NUMBER(18) | NOT NULL, PRIMARY KEY references ADMIN_CIRCUIT_ENDPOINTS |
| atm_connection | VARCHAR2(60), | |
| remote_address | VARCHAR2(44), | |
| remote_connection_id | VARCHAR2(10) | |
| synch_timestamp | DATE | NOT NULL |
| synch_status | CHAR(1) | N,A,U,D |

# Other schema objects

The Administration Database contains the following additional objects:

- "Sequences" (page 91)

- "Synonyms" (page 93)

## Sequences

The Administration Database uses a number of objects, referred to as sequences, that generate unique numbers for use as primary keys in the database. The following list defines the sequences in the Administration Database:

- ADMIN_CIRCUITS_SEQ
  generates primary keys for the ADMIN_CIRCUITS table

- ADMIN_COMPOSITE_CIRCUITS_SEQ
  generates primary keys for the ADMIN_COMPOSITE_CIRCUITS, ADMIN_SITES and ADMIN_IP_ACCESS_POINTS tables

- ADMIN_CONTACTS_SEQ
  generates primary keys for the ADMIN_CONTACTS table

- ADMIN_CUSTOMERS_SEQ
  generates primary keys for the ADMIN_CUSTOMERS table

- ADMIN_DEVICES_SEQ
  generates primary keys for the ADMIN_DEVICES table

- ADMIN_ENDPOINTS_SEQ
  generates sequences for the ADMIN_CIRCUITE_ENDPOINTS table. The ADMIN_PASSPORT_ATM_VCS, ADMIN_PASSPORT_FR_DLCLIS, ADMIN_PASSPORT_FRF8_DLCIS and ADMIN_IP_VCS tables provide additional information for each record of the ADMIN_CIRCUIT_ENDPOINTS table according to the type of endpoint. The IDs of theses subordinate tables are foreign keys to the ADMIN_CIRCUIT_ENDPOINTS table and are determined by the values in the ADMIN_CIRCUIT_ENDPOINTS.ID column, not by the sequence generator.

- ADMIN_FACILITIES_SEQ
  generates primary keys for the ADMIN_FACILITIES table

- ADMIN_INTERFACE_ADDRESSES_SEQ
  generates primary keys for the ADMIN_INTERFACE_ADDRESSES
  table

- ADMIN_NPVC_HOPS_SEQ
  generates primary keys for the ADMIN_NPVC_HOPS table

- ADMIN_SERVICE_INTERFACES_SEQ
  generates primary keys for the ADMIN_SERVICE_INTERFACES table

- ADMIN_TM_PROFILES_SEQ
  generates primary keys for the ADMIN_TM_PROFILES tables

- ADMIN_VFG_SEQ
  generates IDs for the ADMIN_VIRTUAL_FRAMER_GATEWAYS
  table

- ADMIN_PASSPORT_LPS_SEQ
  generates IDs for the ADMIN_PASSPORT_LPS table

- ADMIN_PASSPORT_LP_USAGES_SEQ
  generates IDs for the ADMIN_PASSPORT_LP_USAGE table

- ADMIN_IP_CORE_NWKS_SEQ
  generates IDs for the ADMIN_PROVIDER_EDGE_NETWORKS table

- ADMIN_IP_VCGS_SEQ
  generates IDs for the ADMIN_IP_CORE_ROUTERS table

- ADMIN_2547_BGP_PEERS_SEQ
  generates IDs for the ADMIN_2547_BGP_PEERS TABLE

- ADMIN_IP_PUB_ADDRS_POOL_SEQ
  generates IDs for the ADMIN_CR_PUB_ADDR_POOLS table

- ADMIN_ROUTE_TARGETS_SEQ
  generates IDs for the ADMIN_ROUTE_TARGETS table

- ADMIN_VRF_RT_USAGES_SEQ
  generates IDs for the ADMIN_VRF_RT_USAGES table

- ADMIN_IP_VPNS_SEQ
  generates IDs for the ADMIN_VIRTUAL_PRIVATE_NETWORKS
  table

- ADMIN_IP_PRIV_ADDR_POOL_SEQ
  generates IDs for the ADMIN_VPN_PRIV_ADDR_POOLS table

- ADMIN_IP_VRFS_SEQ
  generates IDs for the ADMIN_VPN_ROUTING_FUNCTIONS table

- ADMIN_IP_VPN_MEMB_SEQ
  generates IDs for the ADMIN_VPN_MEMBERSHIPS table

- ADMIN_IP_MEDIA_SEQ
  generates IDs for the ADMIN_IP_MEDIA table

- ADMIN_LOGICAL_IFS_SEQ
  generates IDs for the ADMIN_IP_LOGICAL_INTERFACES table

- ADMIN_PTMP_TUNNELS_SEQ
  generates IDs for the ADMIN_PTMP_TUNNELS table

- ADMIN_VPNMON_UID_SEQ
  generates IDs for the ADMIN_VPNMON_SERVICE table

## Synonyms

The data definition scripts for Oracle implementations of the Administration Database include public synonyms for all of the tables and sequences in the schema. These synonyms or private synonyms ensure that the circuit management applications can access the Administration Database schema objects through any user account that has the appropriate permissions on these objects.

The applications do not support the qualifications of object names by the schema names. Rather than requiring all user accounts to implement private synonyms, public synonyms can be defined. For security reasons, private synonyms may be created instead for all users that need to access the Administration Database.

All discrete names of synonyms are prefixed by 'ADMIN_' to reduce the probability of public synonyms conflicting with other applications or schemata in the same database instance.

Preside Multiservice Data Manager
# Administration Database
Schema

Release:   14.3

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