



Internal Routing SVI Resource Glossary

SQ00397

V2.6

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Change History

| Version | Change Made | Author | Authorised | Date |
|----------|---|---------|------------|----------|
| 10_10_18 | Initial Release | Various | MW | 25.1.13 |
| 10_10_20 | Added Collect Call support | SPC | SPC | 29.1.13 |
| 10_10_21 | Added the SetTransNetSel and SetTNS_Cct parameters to Db Parameter. | PD | BT | 03.10.13 |
| V2.4 | Added ISUP-ISUP-Ref-API to the Call Control options (svi-mgc-v11_1_4) | JF | JF | 29.1.14 |
| V2.5 | Added Db Parameter resource VoIPStack attribute | BT | BT | 18.03.14 |
| V2.6 | Updated HG:options ringback description | JE | JE | 14.05.14 |

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1.0 Introduction

The SVI controls all aspects of the system by abstracting the system down to a number of database resources. These resources are further divided into sub resource types that describe the operation of a given resource. There are a number of instances of a given resource and each resource has a number of configurable attributes.

These resources are used to allow the administrator to configure and maintain the system.

All of these resources are arranged into a parent-child hierarchical arrangement. When started up the SVI will bring the resources into service starting with the system resource and continuing down through the children resources. A resource will only be brought into service once its parent resource is configured and in-service.

Each resource has the following components:

1.1 Resource Name

Each resource has a unique name which provides a unique operation for the SVI product

1.2 Resource Identifier

An individual resource instance is identified by a unique name.

1.3 Attribute

The attribute field is the attribute of the resource that is to be configured. These are described for each resource within this document.

1.4 Value

This field contains the value of the attribute. The following type of values are valid

| Type | Description |
|---------------------------|---|
| Integer | This is a number in either decimal or hexadecimal format. If the number is in hexadecimal format the 'H' character is prefixed to the number to indicate it is a hexadecimal number (Ha3) |
| Drop Down List | This type of value provides a definitive list of options from which the user can select one of the options |
| Resource Identifier | This is a drop down list which will provide all configured resources of the same type allowing the user to select a single instance of a resource |
| Bit Mask Flag | This type of value provides the user with a list of options from which the user can choose multiple choices. |
| Integer range | The integer range field is a list including ranges of integers for example 1,2,3-10,12-17,20 |
| User String | This is a NULL terminated ASCII character string |
| IP Address | This describes an IP address ie (192.168.2.182) |
| Boolean | A Boolean flag is either True or False |
| Resource Identifier Range | This allows for multiple resources to be identified |
| Digit Match | A digit match is a string of E164 numbers with the special characters ' |

2.0 Resources

2.1 Common Attributes

The following section contains attributes that are common to all resources.

2.1.1 Status

2.1.1.1 Description

This defines the status of the resource instance. When configuring managed resources this should be set to Start, all other resource types should be INS.

2.1.1.2 Definition

| Applicable | Modes | User Type |
|------------|----------|----------------|
| All | Read | Drop Down List |
| | Write | |
| | Licensed | |

2.1.1.3 Values

| Value | Description |
|-------|--|
| Niu | Instance of resource not configured on system |
| Osf | Resource is waiting for parent to be in service before it attempts to come into service |
| Oos | The Resource has been manually removed from service |
| Osc | The Resource is waiting for the parent to come into service before it attempts to configure this resource |
| Osd | The resource's parent is out of service and will come straight back into service once the resource's parent is in service. |
| Osfd | The |
| Oscp | The resource is currently attempting to be configured |
| Osp | The resource is currently attempting to come into service |
| INS | The resource is INSERVICE |
| Start | This pre-configures the resource to its correct startup state |
| ERR | An Error has occurred on this resource. |

2.1.2 Flags

2.1.2.1 Description

The following flags define internally the behaviour of the resource. These are not user defined and are provided only for information purposes.

2.1.2.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| All | Read | None |

2.1.2.3 Values

| Value | Description |
|--------------|--|
| Secure | This resource will be secured on a fail over |
| Applied | This indicates that a resource has been reconfigured and the system needs to reapply the configuration to the resource owner |
| Add | Indicates that the resource is scheduled to be added to the system hierarchy |
| Remove | Indicates that the resource is scheduled to be removed from the system hierarchy |
| Start | Indicates that the resource is scheduled to be started |
| Reconfigured | Indicates that the resource has been reconfigured and requires to be |

| | |
|------------|---|
| | Removed then added and then started |
| Read | This attribute has read permissions |
| Write | This attribute has write permissions |
| No-Default | This resource will not be displayed in the CLI if the default value is configured |
| No-Secure | Do not secure this resource at failover |
| No-Init | Do not initialise this |
| No-GUI | Do not display this attribute in the GUI |
| Licensed | The number of instances of this resource is licensed |

2.1.3 Inservice

2.1.3.1 Description

The Inservice attribute displays the time that this resource came into service.

2.1.3.2 Definition

| Applicable | Modes | User Type |
|---------------|-------|-----------|
| All resources | Read | Time |

2.1.4 Outservice

2.1.4.1 Description

The Outservice attribute displays the timer that this resource last went from an in service state to an out of service state.

2.1.4.2 Definition

| Applicable | Modes | User Type |
|---------------|-------|-----------|
| All resources | Read | Time |

2.2 Call Control

2.2.1 Description

This resource provides additional interworking and routing functionality. The call control resource is connected by a resource identifier to a circuit or VoIP destination resource.

2.2.2 Products

C4, C5, MG, MGC

2.2.3 Attributes

2.2.3.1 TID

2.2.3.1.1 Description

Used for incoming overlap calls that are interworking to a protocol that does not support overlap. The TID timer is started every time an overlap digit is received and cancelled on receipt of the end digit signal. If the inter digit timer expires it will send an enbloc call with all digits received on the outbound leg.

2.2.3.1.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| TDM to SIP | Read | Seconds |
| | Write | |

2.2.3.2 TCF

2.2.3.2.1 Description

This timer is a covering timer waiting for receipt of a clear acknowledgement. This timer is started when a call is cleared and cancelled on receipt of the clear acknowledgement. If the timer expires the call record will be initialised.

2.2.3.2.2 Definition

| Applicable | Modes | User Type |
|-------------------|-------|-----------|
| All Interworkings | Read | Seconds |
| | Write | |

2.2.3.3 TSUS

2.2.3.3.1 Description

This timer is a covering timer which specifies how long an ISUP call will remain in the suspended state. When the timer expires the both legs of the call are cleared.

2.2.3.3.2 Definition

| Applicable | Modes | User Type |
|--------------|-------|-----------|
| SS7 Circuits | Read | Seconds |
| | Write | |

2.2.3.4 TP

2.2.3.4.1 Description

This flag specifies how this circuit will support incoming Terminal Portability functionality.

2.2.3.4.2 Definition

| Applicable | Modes | User Type |
|--------------|-------|----------------|
| SS7 Circuits | Read | Drop down list |
| | Write | |

2.2.3.4.3 Values

| Value | Description |
|-------------|--|
| Transparent | Interwork TP across the interworking barrier |
| Reject | Treat the SUSPEND as a call clear |
| Ignore | Drop the incoming TP messages |

2.2.3.5 TTP

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.2.3.6 TP Cause

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.2.3.7 T Seize

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.2.3.8 TWD

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.2.3.9 COT Handling

2.2.3.9.1 Description

For SS7 signalling only solutions where drop and insert hunting is being used this flag indicates if the outgoing protocol supports COT procedures

2.2.3.9.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|----------------|
| SS7 | Read Write | Drop Down List |

2.2.3.9.3 Values

| Value | Description |
|-------------|--|
| PassThrough | This indicates that both SS7 sides of the interconnect point support COT |
| Reject | If a incoming COT request is made the call will be rejected back |

2.2.3.10 Overlap

2.2.3.10.1 Description

For TDM protocols that support overlap this defines how overlap is supported for interworking purposes.

2.2.3.10.2 Definition

| Applicable | Modes | User Type |
|---------------|---------------|----------------|
| TDM protocols | Read Write | Drop Down List |

2.2.3.10.3 Values

| Value | Description |
|---------------|---|
| Support | This protocol supports full overlap |
| Not Supported | This protocol does not support overlap. Incoming digits will be collected until end of addressing received or Tid expires |

Force Enbloc If the initial setup message does not have an end of address

2.2.3.11 TACM

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.2.3.12 Protocol

2.2.3.12.1 Description

This resource identifier points to a protocol resource which contains additional protocol information for SS7 signalling.

2.2.3.12.2 Definition

| Applicable | Modes | User Type |
|---------------|---------------|---------------------|
| SS7 protocols | Read Write | Resource Identifier |

2.2.3.13 TPC

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.2.3.14 Send CON

2.2.3.14.1 Description

For incoming calls this flag defines if, on fast answer (No ringing phase), a single answer message is sent or a ringing followed by answer message is sent.

2.2.3.14.2 Definition

| Applicable | Modes | User Type |
|---------------|---------------|-----------|
| SS7 Protocols | Read Write | Boolean |

2.2.3.14.3 Values

| Value | Description |
|-------|---------------------------------|
| True | Send single answer message |
| False | Send ringing and answer message |

2.2.3.15 Max Digits

2.2.3.15.1 Description

For outgoing SS7 traffic this defines the maximum digits that are allowed in the outgoing initial address message. If an incoming call exceeds this number then the outgoing call will be split into initial and subsequent messages.

2.2.3.15.2 Definition

| Applicable | Modes | User Type |
|---------------|-------|-----------|
| SS7 Protocols | Read | Integer |

Write

No-Default

2.2.3.16 IDA Digits**2.2.3.16.1 Description**

This attribute is used to identify an overlap Indirect Access number for IUP signalling which does not contain an end of address signal and the administrator does not want to wait for the Tid to expire. This attribute is used with the max digits field to identify a complete IDA call. The IDA digit string field should be set to the IDA prefix used for this service and the max digit field should be set to the length of the remaining digits.

2.2.3.16.2 Definition

| Applicable | Modes | User Type |
|---------------|---------------|-------------------|
| IUP IDA calls | Read Write | User digit string |

2.2.3.17 Options**2.2.3.17.1 Description**

These are a set of call control options that you can enable or disable at any time.

2.2.3.17.2 Values

| Value | Description |
|-------------------------|--|
| Charge-Not Supported | This flag specifies if the outgoing protocol supports a charging method within the protocol. If this is set an incoming charging method will be mapped across. If not set the incoming charging method will be acknowledged by the SVI |
| IW-Generic-Name | For SIP to ISUP interworking if this flag is set the incoming SIP calling party display name will be interworked to the ISUP Generic Name IE |
| Reverse_SIP_RGN_Fields | For ISUP to SIP interworking if this flag is set the outgoing Originating Called Number and the outgoing called party number are reversed. |
| Q931-IW-Redirecting | For ISUP to ISDN and ISN to ISUP calls if this flag is set the SVI will fully interwork between Q931 Redirecting Number IE to ISUP original called IE, Redirecting Number and Redirecting Information |
| No-Media | For SIP calls this specifies that no media information will be added to the SIP messages. |
| IW-Hop-Counter | For calls between SIP and ISUP if this flag is set the SVI will fully interwork between the ISUP hop counter and the SIP max forwards fields |
| SS7-SS7-COT-Transparent | For SS7 calls if this flag is set, if a COT call is received |

| | |
|------------------------------------|--|
| | the SVI will handle the call as a normal call. |
| IW-IUP-CPC-Residential | <p>For IUP to ISUP calls if this flag is set the following interworking happens between FCI and CPC</p> <p>ISDN=Access Ind=0 > CPC = 1 (ordinary residential)</p> <p>ISDN=Access Ind=1 > CPC = 6 (ISDN residential)</p> <p>If flag not set</p> <p>ISDN=Access Ind=0 > CPC = 2 (ordinary business)</p> <p>ISDN=Access Ind=1 > CPC = 7 (ISDN business)</p> |
| Early-183 | For incoming SIP calls if this flag is set an early 183 is sent back to the incoming side from the SVI before the call is progressed through the unit |
| SDP-Offerless-Connect | If Proxy Media is enabled and an INVITE is received with no SDP, this option will allow the SVI to send out an INVITE without SDP. If this option is disabled then the outgoing INVITE will contain the SDP from the SVI. |
| ISDN-UUI-API | For calls between ISUP and ISDN this flag specifies if the UUI-API protocol is begin used on the ISDN side to provide additional call control |
| RPID-In-Generic-Number | For SIP to ISUP calls if this flag is set the SVI will interwork the calling party display name to the ISUP generic number IE. |
| ISUP-ISDN-Alerting-add-progressInd | For calls ISDN to ISUP calls this flag is used to add in progress information in the backward alerting message if not interworked from the backward ISUP message |
| Support-Ported-Number | Support interworking of Ported Number between SIP, ISUP and H.323 |
| IW-CPC | If this flag is set for calls between ISUP and SIP when present the calling party's category will be interworked. |
| Mnp-Sql-Translate-Number | Use SQL procedure to perform a number portability lookup. |
| Nortel-RLT-REFER | IF this flag is set for SIP to ISUP calls, SIP call transfers will be interworked across to the Nortel Refer method on the SS7 side |
| Media-On-200 | For SIP calls if this flag is set media information will only be provided in the backward direction in the 200 OK message |
| No-F-Bit-Support | For outgoing ISUP calls this specifies that the protocol does not support in the initial message and end of |

| | |
|-----------------------------------|---|
| | addressing (f bit) (ANSI ISUP) |
| From-In-Presentation | For UKISUP calls in the SIP to ISUP direction if this flag is set the presentation number will always be set to the calling party number |
| Transparent-ISUP | If this flag is set for ISUP to ISUP calls only the called party information will be interworked, all other information will be transparent across the SVI. |
| Bosnian-IAM-Data | For ISUP interconnect with Bosnian Telecom this flag puts in default information required by the PTT |
| Dont-Pass-SDP-Change-Cross-Border | For SIP to SIP media proxy calls, if this flag is set and a REINVITE occurs which only contains a change in IP address information, the REINVITE will not be proxied across the SVI. |
| Ignore-Cause-in-ACM | SVI normally clears a call if cause code is received in an Address complete message for some interconnect so if this option is set then it will ignore the cause in ACM message and the call will continue. |
| Ignore-Cause-in-CPG | SVI normally clears a call if cause code is received in a call Progress message for some interconnect so if this option is set then it will ignore the cause in CPG message and the call will continue. |
| ISUP-ISUP-Ref-API | Adds a Global Call Reference IE to the Outgoing ISUP call containing the circuit reference of the originating leg |

2.2.3.18 Invalid CDPN DB

2.2.3.18.1 Description

For outgoing SIP calls this attribute allows for checking of the called party number to ensure that it is an E164 number. If it is not a valid number then this attribute points to a list of db parameters that can be applied to the number to either reformat it or reject the call.

2.2.3.18.2 Definition

| Applicable | Modes | User Type |
|--------------------|-----------------------------|--------------------------|
| Outgoing SIP Calls | Read Write No-Default | Resource identifier list |

2.2.3.19 Invalid CGPN DB

For outgoing SIP calls this attribute allows for checking of the called party number to ensure that it is an E164 number. If it is not a valid number then this attribute points to a list of db parameters that can be applied to the number to either reformat it or reject the call.

2.2.3.19.1 Definition

| Applicable | Modes | User Type |
|--------------------|------------|--------------------------|
| Outgoing SIP Calls | Read | Resource identifier list |
| | Write | |
| | No-Default | |

2.2.3.20 TDIP

2.2.3.20.1 Description

This timer is a covering timer waiting for receipt of a TCAP message to dip into a remote database for CNAM, LNP, 800 and LIDB messages

2.2.3.20.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| TCAP dips | Read | Seconds |
| | Write | |

2.2.3.21 TMNP

2.2.3.21.1 Description

This timer is a covering timer waiting for the response to a number portability lookup via an SQL database. If this expires the call is attempted to be routed with the original un-ported number.

2.2.3.21.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| MNP dips | Read | Seconds |
| | Write | |

2.2.3.22 Priority DB

2.2.3.22.1 Description

For ISUP ACC this allows for a definition of a priority call to be defined using this range of db parameters. If a call is identified as a priority call it will by pass any ACC and be handled immediately.

2.2.3.22.2 Definition

| Applicable | Modes | User Type |
|---------------------|------------|---------------------------|
| Outbound ISUP calls | Read | Resource identifier range |
| | Write | |
| | No-Default | |

2.2.3.23 MNP SQL

2.2.3.23.1 Description

For SQL MNP translation this resource identifier points to the SQL resource that will handle the MNP dip.

2.2.3.23.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|---------------------|
| MNP dips | Read Write | Resource Identifier |

2.2.3.24 MNP Options

2.2.3.24.1 Description

These are a set of MNP (mobile number portability) options which relate to the MNP in question that you can enable or disable at any time.

2.2.3.24.2 Definition

| Applicable | Modes | User Type |
|------------|------------|-----------|
| | Read | |
| | Write | |
| | No-Default | |

2.2.3.24.3 Values

| Value | Description |
|-------------|--|
| ISUP_RNCDPN | When routing to ISUP the result of the MNP lookup is used as a Routing Number which is prepended to the CDPN to yield CDPN=RN+CDPN |
| SIP_RNCDPN | When routing to SIP the result of the MNP lookup is used as a Routing Number which is prepended to the CDPN to yield CDPN=RN+CDPN |
| H323_RNCDPN | When routing to H323 the result of the MNP lookup is used as a Routing Number which is prepended to the CDPN to yield CDPN=RN+CDPN |
| ISUP_NRN | When routing to ISUP the result of the MNP lookup is included in the Network Routing Number |
| ISUP_OCN | When routing to ISUP the original CDPN is included in the Original Calling Number |

2.2.3.25 Tcheck Bill

2.2.3.25.1 Description

If this timer is set and the SVI billing module is in use the Tcheck Bill timer will, in real time, check the available credit on this call. If the call runs out of credit the call will be terminated.

2.2.3.25.2 Definition

| Applicable | Modes | User Type |
|---------------------------|---------------|-----------|
| If billing module is used | Read Write | Seconds |

2.3 Hunt Group

2.3.1 Description

The hunt group resource defines a group of VoIP endpoints or TDM circuits. The hunt group is used in routing to determine where to route calls to.

2.3.2 Products

SVI-MG | SVI-MGC | SVI-C4 | SVI-SBC | SVI-9225

2.3.3 Attributes

2.3.3.1 Setup Total

2.3.3.1.1 Description

This provides the total number of calls received on this hunt group since the system started. This attribute has been superseded by the GUI web statistics

2.3.3.1.2 Definition

| Applicable | Modes | User Type |
|----------------------|---------------|-----------|
| All defined products | Read Write | Integer |

2.3.3.2 Ringing Total

2.3.3.2.1 Description

This provides the total number of calls that went to a ringing state on this hunt group since the system started. This attribute has been superseded by the GUI web statistics

2.3.3.2.2 Definition

| Applicable | Modes | User Type |
|----------------------|---------------|-----------|
| All defined products | Read Write | Integer |

2.3.3.3 Answer Total

2.3.3.3.1 Description

This provides the total number of calls that went to an answer state on this hunt group since the system started. This attribute has been superseded by the GUI web statistics

2.3.3.3.2 Definition

| Applicable | Modes | User Type |
|----------------------|---------------|-----------|
| All defined products | Read Write | Integer |

2.3.3.4 Congestion Total

2.3.3.4.1 Description

This provides the total number of calls that were rejected at the SVI. This attribute has been superseded by the GUI web statistics.

2.3.3.4.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
|------------|-------|-----------|

2.3.3.12 Retry Count**2.3.3.12.1 Description**

If greater than zero and an outgoing call is reject back with a cause as defined in the Retry Cause, the failed call will be attempted again on this hunt group for a maximum of RetryCount retries.

2.3.3.12.2 Definition

| Applicable | Modes | User Type |
|----------------------|---------------|-----------|
| All defined products | Read Write | Integer |

2.3.3.13 Retry Cause / Add Retry Cause**2.3.3.13.1 Description**

This defines a list of retry causes that if the outgoing call is rejected with one of these causes the call be reattempted to this hunt group.

2.3.3.13.2 Definition

| Applicable | Modes | User Type |
|----------------------|-------|--------------|
| All defined products | Read | Integer List |

2.3.3.14 VoIP Low**2.3.3.14.1 Description**

In conjunction with VoIP high this defines a range of VoIP destinations that are attached to this hunt group.

2.3.3.14.2 Definition

| Applicable | Modes | User Type |
|-----------------------|---------------------------------------|-----------|
| All VoIP Destinations | Read Write No-Default No-GUI | Integer |

2.3.3.15 VoIP High**2.3.3.15.1 Description**

In conjunction with VoIP low this defines a range of VoIP destinations that are attached to this hunt group.

2.3.3.15.2 Definition

| Applicable | Modes | User Type |
|-----------------------|-----------------------------|-----------|
| All VoIP Destinations | Read Write No-Default | Integer |

No-GUI

2.3.3.16 Algorithm**2.3.3.16.1 Description**

This defines the TDM hunting algorithm for selection of outgoing calls on this hunt group

2.3.3.16.2 Definition

| Applicable | Modes | User Type |
|----------------------|---------------|----------------|
| All defined products | Read Write | Drop down List |

2.3.3.16.3 Values

| Value | Description |
|-------------|---|
| Hunt High | Select highest free circuit |
| Hunt Low | Select lowest free circuit |
| Incremental | Select next free highest circuit from last chosen circuit. |
| Decremental | Select next free lowest circuit from last chosen circuit |
| Drop Insert | Index the selection from this hunt group from the index of the circuit on the incoming hunt group |

2.3.3.17 Add Circuits**2.3.3.17.1 Description**

This command is used to define the circuit resource range on this hunt group.

2.3.3.17.2 Definition

| Applicable | Modes | User Type |
|--------------|---------------------|---------------|
| TDM Circuits | Write No-Default | Integer range |

2.3.3.18 Circuits**2.3.3.18.1 Description**

This displays the current circuit resources added to this hunt group.

2.3.3.18.2 Definition

| Applicable | Modes | User Type |
|--------------|--------------------|---------------|
| TDM Circuits | Read No-Default | Integer Range |

2.3.3.19 MatchDB**2.3.3.19.1 Description**

To enable digit manipulation on the outbound call a range of db parameter resources can be added whose rules will be applied to all outbound calls from this hunt group.

2.3.3.19.2 Definition

| Applicable | Modes | User Type |
|------------|------------|---------------|
| All | Read | Integer range |
| | Write | |
| | No-Default | |

2.3.3.20 Maximum Calls

2.3.3.20.1 Description

If set this will limit the total amount of outbound concurrent call setups that will be allowed on this hunt group. If this is exceeded then any new calls will be rejected with the reject cause as defined in the selected routing criteria resources attribute "Remote Congestion Cause".

2.3.3.20.2 Definition

| Applicable | Modes | User Type |
|------------|------------|-----------|
| All | Read | Integer |
| | Write | |
| | No-Default | |

2.3.3.21 Maximum Inbound

2.3.3.21.1 Description

If set this will limit the total amount of inbound concurrent call setups that will be allowed on this hunt group. If this is exceeded then any new calls will be rejected with the reject cause as defined in the selected routing criteria resources attribute "Local Congestion Cause".

2.3.3.21.2 Definition

| Applicable | Modes | User Type |
|------------|------------|-----------|
| All | Read | Integer |
| | Write | |
| | No-Default | |

2.3.3.22 Maximum Traffic

2.3.3.22.1 Description

If set this will limit the total amount of outbound and inbound concurrent call setups that will be allowed on this hunt group. If this is exceeded then any new calls will be rejected with the reject cause as defined in the selected routing criteria resources attribute "Local Congestion Cause".

2.3.3.22.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| All | Read | Integer |

Write

No-Default

2.3.3.23 AAA AccountingName**2.3.3.23.1 Description**

For RADIUS AAA this allows for a name to be allocated to the hunt group to identify the range of TDM circuits that the call has originated on for Access and Accounting purposes.

2.3.3.23.2 Definition

| Applicable | Modes | User Type |
|------------|------------|-------------|
| TDM only | Read | User string |
| | Write | |
| | No-Default | |

2.3.3.24 Partner**2.3.3.24.1 Description**

In drop and insert hunting mode a direct relationship between an incoming and outgoing TDM circuit in two different hunt groups are formed. This defines the partnered hunt group.

2.3.3.24.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| TDM only | Write | Integer |

2.3.3.25 Add Voice Announcement**2.3.3.25.1 Description**

The SVI can pay pre-answer voice announcements on call failure. Different announcements can be played depending on the rejection type and the call state. This contains a list of call announcements resources that define the required announcements to be played on this hunt group.

2.3.3.25.2 Definition

| Applicable | Modes | User Type |
|--|-------|----------------|
| VoIP TDM only. TDM originated calls only | Read | Resource Array |
| | Write | |

2.3.3.26 NAS**2.3.3.26.1 Description**

This flag specifies that TDM calls being originated at this hunt group are NAS calls (modem calls). The call will be terminated on the SVI.

2.3.3.26.2 Definition

| Applicable | Modes | User Type |
|---|-------|-----------|
| VoIP TDM only for terminating modem calls | Read | Boolean |

Write

No-Default

2.3.3.27 Redirect Addr**2.3.3.27.1 Description**

If an outgoing SIP call is rejected with a redirection response (300/301/302) the SVI will search through all VoIP destinations for the identified redirected endpoint. It is also possible to add a redirection address to the hunt group that will redirect the call to the attached VoIP endpoints if the redirection address information is different from the VoIP destination information

2.3.3.27.2 Definition

| Applicable | Modes | User Type |
|-----------------|-----------------------------|------------|
| SIP Hunt groups | Read Write No-Default | IP Address |

2.3.3.28 Options**2.3.3.28.1 Description**

These are a set of hunt group options that you can enable or disable at any time.

2.3.3.28.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-----------|
| | Read Write No-Default | |

2.3.3.28.3 Values

| Value | Description |
|---------------------|--|
| None | No flags set |
| Apply-Ringback | For incoming TDM calls this flag will apply a ring back tone from the SVI. If the outgoing call receives 'in-band-info-available'(TDM) or remote media (SIP) the ringback will be stopped and the voice path switched through. |
| Never-Ringback | For incoming TDM calls this flag will override all other requests for ring back on this hunt group. (VoIP Destination options on an outgoing VoIP call will override this setting) |
| Transcoding Allowed | This flag specifies that transcoding will be allowed on this hunt group if transcoding rules are set. |
| Use-CCT-As-Call-Id | For TDM SQL CDRS this option is used to identify the CDR call-id by its circuit value |

2.3.3.29 Codecs

2.3.3.29.1 Description

These Codecs only have meaning when the “transcoding allowed” option is on, as seen above. The Codecs set here will be used in the outgoing call, otherwise the codecs from the incoming call will be used for the outgoing call.

2.3.3.29.2 Definition

| Applicable | Modes | User Type |
|------------|--------|-----------|
| | Read | |
| | No-GUI | |

2.3.3.29.3 Values

| Value |
|---------------------|
| G711 ALAW 64K |
| G711 ULAW 64K |
| G722 64K |
| G722 56K |
| G722 48K |
| G723.1 |
| G723.1 LOW RATE |
| G723.1 HIGH RATE |
| G723.1 LOW RATE_SS |
| G723.1 HIGH RATE_SS |
| G728 |
| G729 |
| G729A |
| G729B |
| G729AB |
| GSM FULL RATE |
| GSM HALF RATE |
| t38 |
| t38-strict |
| t38-loose |
| t38-gw |

Speex

PSST

G726-40

G726-32

G726-16

G726-24

AMR

telephone-event

NSE

Ilbc

EVRC

G.Clear

CCD

G.nX64

G168EC-IC

G168EC-OG

CN

Red

CLEARMODE

2.3.3.30 Normalise-CDPN**2.3.3.30.1 Description**

This points to a range of DB Parameters that will normalisation rules to the Called Party Number for the outgoing call.

2.3.3.30.2 Definition

| Applicable | Modes | User Type |
|------------|------------|---------------|
| All | Read | Integer Range |
| | Write | |
| | No-Default | |

2.3.3.31 Normalise-CGPN**2.3.3.31.1 Description**

This points to a range of DB Parameters that will normalisation rules to the Calling Party Number for the outgoing call.

2.3.3.31.2 Definition

| Applicable | Modes | User Type |
|------------|------------|---------------|
| All | Read | Integer Range |
| | Write | |
| | No-Default | |

2.3.3.32 Normalise-OCN

2.3.3.32.1 Description

This points to a range of DB Parameters that will normalisation rules to the Original Called Party Number for the outgoing call.

2.3.3.32.2 Definition

| Applicable | Modes | User Type |
|------------|------------|---------------|
| All | Read | Integer Range |
| | Write | |
| | No-Default | |

2.3.3.33 Normalise-PN

2.3.3.33.1 Description

This points to a range of DB Parameters that will normalisation rules to the Presentation Number for the outgoing call.

2.3.3.34 Normalise-RGN

2.3.3.34.1 Description

This points to a range of DB Parameters that will normalisation rules to the Redirecting Number for the outgoing call.

2.3.3.35 Incoming Statistics

2.3.3.35.1 Description

If this resource identifier attribute is attached to a statistic resource, it will allow for throughput statistics to be obtained and throttling applied for incoming call attempts

2.3.3.35.2 Definition

| Applicable | Modes | User Type |
|------------|-------|---------------------|
| All | Read | Resource Identifier |
| | Write | |

2.3.3.36 Outgoing Statistics

2.3.3.36.1 Description

If this resource identifier attribute is attached to a statistic resource, it will allow for throughput statistics to be obtained and throttling applied for outgoing call attempts

2.3.3.36.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
|------------|-------|-----------|

All

Read

Resource Identifier

Write

2.4 Routing Criteria

2.4.1 Description

The routing criteria is used in routing to form a collection of Db Parameters which allow for the setting up of routing algorithms.

2.4.2 Products

SVI-MG | SVI-MGC | SVI-C4 | SVI-SBC | SVI-9225

2.4.3 Attributes

2.4.3.1 MatchDb

2.4.3.1.1 Description

This resource identifier range points to the instances of DB Parameters that belong to this routing criteria.

2.4.3.1.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|---------------------------|
| All | Read Write No-Default | Resource Identifier Range |

2.4.3.2 Maximum Calls

2.4.3.2.1 Description

If this routing criteria is selected in the routing process the call will be rejected with the "local congestion cause" value of the number of current active call attempts is greater then maximum calls.

2.4.3.2.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-----------|
| All | Read Write No-Default | Integer |

2.4.3.3 RetryCount

2.4.3.3.1 Description

This value specifies the maximum number of retry attempts this call will attempt if the call is routed through this routing criteria

2.4.3.3.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|-----------|
| All | Read Write | Integer |

2.4.3.4 Add Voice Announcement

2.4.3.4.1 Description

The SVI can play pre-answer voice announcements on call failure. Different announcements can be played depending on the rejection type and the call state. This contains a list of call announcements resources that define the required announcements to be played if this call is routed through this routing criteria.

2.4.3.4.2 Definition

| Applicable | Modes | User Type |
|--|---------------|----------------|
| VoIP TDM only. TDM originated calls only | Read Write | Resource Array |

2.4.3.5 Codecs

2.4.3.5.1 Description

This defines a list of codecs in preferred order that will be offered and supported on VoIP to TDM calls. For TDM to TDM calls this option should be set to the appropriate G711 law

2.4.3.5.2 Values

| Value |
|---------------------|
| G711 ALAW 64K |
| G711 ULAW 64K |
| G722 64K |
| G722 56K |
| G722 48K |
| G723.1 |
| G723.1 LOW RATE |
| G723.1 HIGH RATE |
| G723.1 LOW RATE_SS |
| G723.1 HIGH RATE_SS |
| G728 |
| G729 |
| G729A |
| G729B |
| G729AB |
| GSM FULL RATE |
| GSM HALF RATE |
| t38 |
| t38-strict |

t38-loose

t38-gw

Speex

PSST

G726-40

G726-32

G726-16

G726-24

AMR

telephone-event

NSE

Ilbc

EVRC

G.Clear

CCD

G.nX64

G168EC-IC

G168EC-OG

CN

Red

CLEARMODE

2.4.3.6 Routes

2.4.3.6.1 Description

If no DB Parameter is used to define a hunt group route this attribute can be used to identify the outbound hunt group route

2.4.3.6.2 Definition

| Applicable | Modes | User Type |
|------------|-------|---------------------|
| All | Read | Resource identifier |

2.4.3.7 RouteAlgorithm

2.4.3.7.1 Description

This defines the TDM hunting algorithm for selection of outgoing calls on the hunt group

2.4.3.7.2 Definition

| Applicable | Modes | User Type |
|----------------------|---------------|----------------|
| All defined products | Read Write | Drop down List |

2.4.3.7.3 Values

| Value | Description |
|-------------|---|
| Hunt High | Select highest free circuit |
| Hunt Low | Select lowest free circuit |
| Incremental | Select next free highest circuit from last chosen circuit. |
| Decremental | Select next free lowest circuit from last chosen circuit |
| Drop Insert | Index the selection from this hunt group from the index of the circuit on the incoming hunt group |

2.4.3.8 Reject Cause

2.4.3.8.1 Description

If this attribute is set to anything larger than zero any calls that would have routed through this routing criteria will be rejected with the specified reject cause.

2.4.3.8.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-----------|
| All | Read Write No-Default | Integer |

2.4.3.9 Local Congestion Cause

2.4.3.9.1 Description

For any calls that are routed through this routing criteria and are subsequently rejected within the SVI, the call will be rejected with this reject cause.

2.4.3.9.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|-----------|
| All | Read Write | Integer |

2.4.3.10 Remote Congestion Cause

2.4.3.10.1 Description

For any calls that are routed through this routing criteria and the final selected outgoing hunt group is congested, the incoming call will be cleared back with this release cause.

2.4.3.10.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|-----------|
| All | Read Write | Integer |

2.4.3.11 CDR

2.4.3.11.1 Description

This option allows for the user to capture Call Detail Records (CDRS) in an ASCII CSV file written to disk directly on the SVI. This will not affect the collection of CDRS in the SQL database. The time and date CDR files are located in /home/squire/cdr/.

2.4.3.11.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|----------------|
| All | Read Write | Drop Down List |

2.4.3.11.3 Values

| Value | Description |
|--------------|--|
| CDROff | Do not produce ASCII CDR files |
| Type 6 | Produce ASCII CDR files to type 6 fixed format |
| Configurable | Produce ASCII CDR files to the configurable CDR format |

2.4.3.12 CDRInterval

2.4.3.12.1 Description

This describes when a new date and time stamped ASCII CDR file is created. This can either be done daily or hourly

2.4.3.12.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|----------------|
| All | Read Write | Drop Down List |

2.4.3.12.3 Values

| Value | Description |
|--------|-------------------------------------|
| Daily | Produce a new CDR ASCII file daily |
| Hourly | Produce a new CDR ASCII file hourly |

2.4.3.13 CDRName

2.4.3.13.1 Description

If ASCII CDR files are being used this allows for a different file name prefix to be used for each routing criteria.

2.4.3.13.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-------------|
| All | Read Write No-Default | User string |

2.4.3.14 Setup

2.4.3.14.1 Description

This provides the total number of calls handled by this routing criteria since the system started. This attribute has been superseded by the GUI web statistics.

2.4.3.14.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|-----------|
| All | Read Write | Integer |

2.4.3.15 Ring

2.4.3.15.1 Description

This provides the total number of calls handled by this routing criteria that have gone to ringing since the system started. This attribute has been superseded by the GUI web statistics.

2.4.3.15.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|-----------|
| All | Read Write | Integer |

2.4.3.16 Answer

2.4.3.16.1 Description

This provides the total number of calls handled by this routing criteria that have gone to answer since the system started. This attribute has been superseded by the GUI web statistics.

2.4.3.16.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|-----------|
| All | Read Write | Integer |

2.4.3.17 Congestion

2.4.3.17.1 Description

This provides the total number of calls handled by this routing criteria that have been rejected due to congestion reasons.

2.4.3.17.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|-----------|
| All | Read Write | Integer |

2.4.3.18 Rejected by Criteria

2.4.3.18.1 Description

This provides the total number of calls handled by this routing criteria that have been rejected by the routing criteria

2.4.3.18.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|-----------|
| All | Read Write | Integer |

2.4.3.19 Minutes

2.4.3.19.1 Description

This is an indication of the total number of answer minutes that calls associated with this routing criteria have accumulated since the system was started.

2.4.3.19.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|-----------|
| All | Read Write | Integer |

2.4.3.20 24H Setup

2.4.3.20.1 Description

This provides the total number of calls handled by this routing criteria since midnight. This attribute has been superseded by the GUI web statistics.

2.4.3.20.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|-----------|
| All | Read Write | Integer |

2.4.3.21 24H Ring

2.4.3.21.1 Description

This provides the total number of calls handled by this routing criteria that have gone to ringing since midnight. This attribute has been superseded by the GUI web statistics.

2.4.3.21.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
|------------|-------|-----------|

| | | |
|-----|-------|---------|
| All | Read | Integer |
| | Write | |

2.4.3.22 24H Answer

2.4.3.22.1 Description

This provides the total number of calls handled by this routing criteria that have gone to answer since midnight. This attribute has been superseded by the GUI web statistics.

2.4.3.22.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| All | Read | Integer |
| | Write | |

2.4.3.23 24H Hour Congestion

2.4.3.23.1 Description

This provides the total number of calls handled by this routing criteria that have been rejected due to congestion reasons since midnight

2.4.3.23.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| All | Read | Integer |
| | Write | |

2.4.3.24 24H Hour Rejected by Criteria

2.4.3.24.1 Description

This provides the total number of calls handled by this routing criteria that have been rejected by the routing criteria since midnight.

2.4.3.24.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| All | Read | Integer |
| | Write | |

2.4.3.25 24H Minutes

2.4.3.25.1 Description

This is an indication of the total number of answer minutes that calls associated with this routing criteria have accumulated since midnight.

2.4.3.25.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| All | Read | Integer |
| | Write | |

2.4.3.26 Active

2.4.3.26.1 Description

This provides the total number of current active calls on this routing criteria. This attribute has been superseded by the GUI web statistics

2.4.3.26.2 Definition

| Applicable | Modes | User Type |
|----------------------|-------|-----------|
| All defined products | Read | Integer |
| | Write | |

2.4.3.27 ACD

2.4.3.27.1 Description

This provides the ACD (Average Call Duration) in seconds for all calls on this routing criteria. This attribute has been superseded by the GUI web statistics

2.4.3.27.2 Definition

| Applicable | Modes | User Type |
|----------------------|-------|-----------|
| All defined products | Read | Integer |
| | Write | |

2.4.3.28 PDD

2.4.3.28.1 Description

This provides the PDD (Post Dial Delay) in seconds for all calls on this routing criteria. This attribute has been superseded by the GUI web statistics

2.4.3.28.2 Definition

| Applicable | Modes | User Type |
|----------------------|-------|-----------|
| All defined products | Read | Integer |
| | Write | |

2.4.3.29 ASR

2.4.3.29.1 Description

This provides the ASR (Average Seize Ratio) in seconds for all calls on this routing criteria. This attribute has been superseded by the GUI web statistics

2.4.3.29.2 Definition

| Applicable | Modes | User Type |
|----------------------|-------|-----------|
| All defined products | Read | Integer |
| | Write | |

2.4.3.30 Radius AA

2.4.3.30.1 Description

Defines the mechanism for authentication of registering SIP endpoints.

2.4.3.30.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|----------------|
| All | Read Write No-Default | Drop Down List |

2.4.3.30.3 Values

| Value | Description |
|------------------|---|
| None | No External AA to be performed |
| External | External AA (Radius messages are sent to radius server) |
| Internal | Uses internal SVI authentication checking |
| SQL_Credit_Check | Enables SQL credit checking (Billing only) |
| SQL_REG | Used SQL authentication |
| SQL | EOL |

2.4.3.31 AA Server

2.4.3.31.1 Description

If a third party radius server is used for AA this resource identifier points to the Radius Resource which defines the radius server to be used from this routing criteria.

2.4.3.31.2 Definition

| Applicable | Modes | User Type |
|----------------------------|-----------------------------|---------------------|
| If AA Radius is being used | Read Write No-Default | Resource Identifier |

2.4.3.32 Radius Service Type

2.4.3.32.1 Description

This allows for the radius service type to be configured in the Radius Accounting message for this routing criteria.

2.4.3.32.2 Definition

| Applicable | Modes | User Type |
|-----------------------------|-----------------------------|-----------|
| If AAA radius is being used | Read Write No-Default | Integer |

2.4.3.33 Authenticate/Authorise

2.4.3.33.1 Description

For SIP registering end points this allows for the user to define when an end point will be challenged to authorise themselves.

2.4.3.33.2 Definition

| Applicable | Modes | User Type |
|---------------------------|-----------------------------|----------------|
| SIP Registering End point | Read Write No-Default | Drop Down List |

2.4.3.33.3 Values

| Value | Description |
|--------------|--|
| Never | Never challenge the end point |
| Registration | Challenge the end point on registration only |
| Calls | Challenge the end point on incoming calls only |
| Always | Challenge the end point on incoming calls and registration |

2.4.3.34 Authenticate Method

2.4.3.34.1 Description

Different Radius servers require different formats of the radius message for an Access Request Message to authenticate the call. This attribute defines who the SVI is communicating with so that the SVI can send the correct format of the Access Request Radius message

2.4.3.34.2 Definition

| Applicable | Modes | User Type |
|----------------------------|-----------------------------|----------------|
| If AA radius is being used | Read Write No-Default | Drop Down List |

2.4.3.34.3 Values

| Value | Description |
|------------------|--|
| Cisco sip-hdr | Use against a Cisco Radius Server |
| Draft Stermann01 | Use if the Authentication method is via Draft Stermann01 |
| Draft Digest06 | Use if the Authentication method is via Draft Digest06 |
| Calling Number | Use if authentication is only against calling party number |
| Password | Use if authentication is against calling party number and password |

| | |
|------------|---|
| PortaOne | Use against a PortaOne server |
| Calling IP | Use if authentication is against the calling party's IP address |

2.4.3.35 Authorise Method

2.4.3.35.1 Description

Different Radius servers require different formats of the radius message for an Access Request Message to authorise the call. This attribute defines who the SVI is communicating with so that the SVI can send the correct format of the Access Request Radius message

2.4.3.35.2 Definition

| Applicable | Modes | User Type |
|----------------------------|------------|----------------|
| If AA radius is being used | Read | Drop Down List |
| | Write | |
| | No-Default | |

2.4.3.35.3 Values

| Value | Description |
|---------------|--|
| Called Number | Use if the Authorise method requires the called party number in the Radius Called Station Id |

2.4.3.36 Radius Accounting

2.4.3.36.1 Description

This defines the behaviour of the radius accounting between the SVI and the Radius Server

2.4.3.36.2 Definition

| Applicable | Modes | User Type |
|----------------------|------------|---------------|
| If Radius Accounting | Read | Bit Mask Flag |
| | Write | |
| | No-Default | |

2.4.3.36.3 Values

| Value | Description |
|----------|---|
| None | No Radius accounting |
| Outgoing | If set a Radius accounting record will be sent for the outbound leg |
| Incoming | If set a Radius accounting record will be sent for the inbound leg |
| Start | If set, on the start of the call an accounting record will be sent |
| Stop | If set, of the completion of the call an accounting record will be sent |

2.4.3.37 Radius Identity

2.4.3.37.1 Description

For Radius messages this attribute allows for the Radius User Name to be identified by one of the below options

2.4.3.37.2 Definition

| Applicable | Modes | User Type |
|------------------------|------------|----------------|
| If using radius for AA | Read | Drop Down List |
| | Write | |
| | No-Default | |

2.4.3.37.3 Values

| Value | Description |
|----------|--|
| Called | Use the called party number |
| Calling | User the calling party number |
| IP | Use the VoIP destinations IP address |
| NAS | Use the name from the radius server resource |
| Username | Use the VoIP destinations username |
| AAA Name | Use the hunt groups AAA Accounting name |
| Default | Use the name from the radius server resource |

2.4.3.38 Accounting Server

2.4.3.38.1 Description

This resource identifier points to the Radius resource that contains the setup information for the Radius accounting Server.

2.4.3.38.2 Definition

| Applicable | Modes | User Type |
|------------------------------------|-------|---------------------|
| If Radius Accounting is being used | Read | Resource Identifier |
| | Write | |

2.4.3.39 SQL

2.4.3.39.1 Description

This resource identifier points to the SQL resource that will be used to execute the routing SQL procedures. This identifier also sets the Action field, which is maintained for compatibility but is EOL.

2.4.3.39.2 Definition

| Applicable | Modes | User Type |
|------------------------------|-------|---------------------|
| If SQL routing is being used | Read | Resource Identifier |

Write

2.4.3.40 H323-Call-Origin**2.4.3.40.1 Description**

This allows for a user defined string to be used in the Radius Cisco-H323-Call-Origin attribute

2.4.3.40.2 Definition

| Applicable | Modes | User Type |
|------------------------------|------------|-------------|
| If Radius Accounting is used | Read | User string |
| | Write | |
| | No-Default | |

2.4.3.41 H323-Call-Type**2.4.3.41.1 Description**

This allows for a user defined string to be used in the Radius Cisco-H323-Call-Type field.

2.4.3.41.2 Definition

| Applicable | Modes | User Type |
|------------------------------|------------|-------------|
| If Radius Accounting is used | Read | User string |
| | Write | |
| | No-Default | |

2.4.3.42 Routing AA Server**2.4.3.42.1 Description**

The SVI supports an extension to the Radius protocol allowing for a Radius server to determine the routing decisions over radius. If this resource identifier is set the SVI will interact with the Radius Routing Server to obtain its routing decisions.

2.4.3.42.2 Definition

| Applicable | Modes | User Type |
|---------------------------|-------|---------------------|
| If Radius Routing is used | Read | Resource Identifier |
| | Write | |

2.4.3.43 Interim-Update Period**2.4.3.43.1 Description**

If a Radius server supports the interim update period procedure, this attribute defines the interim update period in seconds. This procedure is used to ensure that the radius server and the SVI do not get out of step for a calls current status

2.4.3.43.2 Definition

| Applicable | Modes | User Type |
|------------------------------|-------|-----------|
| If Radius Accounting is used | Read | Seconds |

Write

No-Default

2.4.3.44 Match End**2.4.3.44.1 Description**

When selecting a routing criteria the SVI will look through all routing criteria's to make a match. If when a match on a single routing criteria has been made and you require to routing to be actioned immediately then set this flag to True.

2.4.3.44.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-----------|
| All | Read Write No-Default | Boolean |

2.4.3.45 Hunt

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.4.3.46 Hunt Low

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.4.3.47 Hunt High

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.4.3.48 Action

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.4.3.49 Add Action

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.4.3.50 CDR SQL**2.4.3.50.1 Description**

To enable the CDR SQL operations this resource identifier must point to a CDR resource which contains the profile of the SQL API which populates the SQL records.

2.4.3.50.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|---------------------|
| All | Read Write | Resource Identifier |

2.4.3.51 Control Bits

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.4.3.52 Cdrs Resource

2.4.3.52.1 Description

If ASCII CDR mode is configurable then this resource identifier points to the CDRS resource which defines the configurable CDR's profile

2.4.3.52.2 Definition

| Applicable | Modes | User Type |
|-------------------------------------|---------------|------------------|
| If ASCII configurable CDRs are used | Read Write | Resource Pointer |

2.4.3.53 Options

2.4.3.53.1 Description

This bit mask flag provides extra functionality to the routing criteria

2.4.3.53.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|---------------|
| All | Read Write No-Default | Bit Mask Flag |

2.4.3.53.3 Values

| Value | Description |
|-----------|--|
| Emergency | To handle emergency routing for unknown SIP endpoints that are trying to contact the emergency services the following needs to be applied <ol style="list-style-type: none"> 1) The system resource "Emergency Routing Criteria" is set up 2) A routing criteria with the options flag "Emergency" is set up including db parameters that defines the numbers that are allowed to be called through this emergency routing criteria. |

2.4.3.54 DNS

2.4.3.54.1 Description

If this routing criteria is setup to route by DNS lookup this user string defines the DNS lookup record. This would generally have the format "_sip._udp.squire.co.uk" for example.

2.4.3.54.2 Definition

| Applicable | Modes | User Type |
|-----------------------|-------|-------------|
| Routing by DNS lookup | Read | User string |

Write

No-Default

2.4.3.55 Reject Location**2.4.3.55.1 Description**

For ISUP call rejection at the routing criteria, this attribute defines the location of the rejection for the backward REL message.

2.4.3.55.2 Definition

| Applicable | Modes | User Type |
|-------------------|-----------------------------|----------------|
| For ISUP circuits | Read Write No-Default | Drop Down list |

2.4.3.55.3 Values

| Value |
|-------------------------------------|
| None |
| User |
| Private-network-serving-local-user |
| Public-network-serving-local-user |
| Transit-network |
| Public-network-service-remote-user |
| Private-network-service-remote-user |
| International-network |
| Network-beyond-interworking-point |

2.4.3.56 TTL**2.4.3.56.1 Description**

DNS Lookup Time-To-Live.

2.4.3.56.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-----------|
| | Read Write No-Default | int |

2.4.3.56.3 Values

Value

Value in sec

2.4.3.57 SS7 Stack**2.4.3.57.1 Description**

The SS7 stack resource instance used for CNAM/LNP/800 lookups.

2.4.3.57.2 Definition

| Applicable | Modes | User Type |
|--------------------------|------------|-----------|
| For CNAM/800/LNP lookups | Read | Resource |
| | Write | |
| | No-Default | |

2.4.3.58 CNAM SCCP DB**2.4.3.58.1 Description**

The SCCP DB Resource used to construct the SCCP Called/Calling Party addresses for CNAM lookup. If not set, hard-coded default values are used.

Within the SCCP DB resource, only the setCgpn... and setCdpn attributes are used.

2.4.3.58.2 Definition

| Applicable | Modes | User Type |
|------------------|------------|-----------|
| For CNAM lookups | Read | Resource |
| | Write | |
| | No-Default | |

2.4.3.59 SRI SCCP DB**2.4.3.59.1 Description**

The SCCP DB Resource used to construct the SCCP Called/Calling Party addresses for SRI lookup. If not set, hard-coded default values are used.

Within the SCCP DB resource, only the setCgpn... and setCdpn (apart for the SMSC digits) attributes are used.

2.4.3.59.2 Definition

| Applicable | Modes | User Type |
|------------------|------------|-----------|
| For CNAM lookups | Read | Resource |
| | Write | |
| | No-Default | |

2.4.3.60 Initial DP SCCP DB**2.4.3.60.1 Description**

The SCCP DB Resource used to construct the SCCP Called/Calling Party addresses for Initial DP lookup. If not set, hard-coded default values are used.

Within the SCCP DB resource, only the setCgpn... and setCdpn attributes are used.

2.4.3.60.2 Definition

| Applicable | Modes | User Type |
|------------------|-----------------------------|-----------|
| For CNAM lookups | Read Write No-Default | Resource |

2.4.3.61 SQL MatchDb

2.4.3.61.1 Description

The DB Parameter Resource used to do failure routing if no SQL resources are available .

Works similar to internal routing based on MatchDb attribute only triggered if sql based routing fails.

2.4.3.61.2 Definition

| Applicable | Modes | User Type |
|-----------------|-----------------------------|-----------|
| For SQL Routing | Read Write No-Default | Resource |

2.5 Db Parameter

2.5.1 Description

The DB Parameter resource is a highly flexible resource which is used in forming routing algorithms and number manipulation.

The following defines the digit definitions

| | |
|------|------------------------|
| CDPN | Called Party Number |
| CGPN | Calling Party Number |
| OCN | Original Called Number |
| PN | Presentation Number |
| CIP | Carrier Identification |

2.5.2 Products

SVI-MG | SVI-MGC | SVI-C4 | SVI-SBC | SVI-9225

2.5.3 Attributes

2.5.3.1 Incoming Hunt / Hunt

2.5.3.1.1 Description

This attribute is matched if the incoming call is from this identified hunt group.

2.5.3.1.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|--------------------------|
| All | Read Write No-Default | Resource Identifier List |

2.5.3.2 CDPN / CGPN / OCN / RGN / PN / CIP / Routing Prefix

2.5.3.2.1 Description

This attribute is matched if a digit match is made between the calls digits and the specified digits.

2.5.3.2.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-------------|
| All | Read Write No-Default | Digit Match |

2.5.3.2.3 Values

The match string can be either a simple set of digits as a prefix to match the beginning of the incoming number or may also include the following notation:

- [44] - Optionally match the enclosed digits
- x - Match any digit

- ? - Match any digit
- S0 - Can be used at the end of the string to restrict the length
- ,

For example:

- 1234 - will match any number which begins 1234 of any length (4 or more)
- 1234xxx - will match any number which begins 1234 and is at least 7 digits long (the 5th to 7th and subsequent digits can be anything)
- 1234xxxS0 - will match any number which begins 1234 and is exactly 7 digits long (the 5th to 7th digits can be anything)
- xxx1234 - will match any number which has three digits (of anything) followed by 1234 and then any number of trailing digits
- [44][0]1234 - will match any number which begins 1234, 01234 or 441234 of any length
- 1234,9876 - will match any number which begins 1234 or 9876 of any length

2.5.3.3 CDPNStrip / CGPNStrip / OCNStrip / PNStrip / RGNStrip / CIPStrip

2.5.3.3.1 Description

If the db parameter is matched the specified number of digits specified in this attribute will be stripped from the beginning of the call's digits.

2.5.3.3.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-------------|
| All | Read Write No-Default | Digit Match |

2.5.3.4 CDPNPrefix / CGPNPrefix / OCNPrefix / PNPrefix / RGNPrefix / CIPPrefix

2.5.3.4.1 Description

If the db parameter is matched and after digit stripping, these specified digits will be prefixed to the call's digits.

2.5.3.4.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-------------------|
| All | Read Write No-Default | User digit string |

2.5.3.5 CDPNSuffix / CGPNSuffix / PNSuffix / OCNSuffix / RGNsuffix / CIPsuffix

2.5.3.5.1 Description

If the db parameter is matched and after digit stripping, these specified digits will be suffixed to the call's digits.

2.5.3.5.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|------------------|
| All | Read Write No-Default | User digit strin |

2.5.3.6 CDPNNOA / CGPNNOA / PNNOA / OCNNOA / RGNNOA

2.5.3.6.1 Description

This attribute is matched if a nature of address match is made between the call's NOA and the specified NOA.

2.5.3.6.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|----------------|
| All | Read Write No-Default | Drop Down List |

2.5.3.6.3 Values

| Value |
|------------------|
| Spare |
| Subscriber |
| Unknown |
| National |
| International |
| Network Specific |
| UK Specific |
| None |

2.5.3.7 SETCDPNNOA / SETCGPNNOA / SETPNNOA / SETOCNNOA / SETRGNNOA

2.5.3.7.1 Description

If the db parameter is matched and this attribute is set the outgoing NOA will be set to this value.

2.5.3.7.2 Definition

| Applicable | Modes | User Type |
|------------|-------|----------------|
| All | Read | Drop Down List |

Write

No-Default

2.5.3.7.3 Values

Value

Spare

Subscriber

Unknown

National

International

Network Specific

UK Specific

None

2.5.3.8 CGPNADDRPRES / PNADDRPRES / OCNADDRPRES / RGNADDRPRES

2.5.3.8.1 Description

This attribute is matched if a presentation indicator match is made between the call's presentation indicator and the specified presentation indicator.

2.5.3.8.2 Definition

| Applicable | Modes | User Type |
|------------|------------|----------------|
| All | No-Default | Drop down list |

2.5.3.8.3 Values

Value

Spare

Allowed

Restricted

Address Not Allowed

None

2.5.3.9 SETCGPNADDRPRES / SETPNADDRPRES / SETOCNPRES / SETRGNPRES

2.5.3.9.1 Description

If the db parameter is matched and this attribute is set the outgoing presentation indicator will be set to this value.

2.5.3.9.2 Definition

| Applicable | Modes | User Type |
|------------|------------|----------------|
| All | No-Default | Drop Down List |

2.5.3.9.3 Values

| Value |
|-------|
|-------|

Spare

Allowed

Restricted

Address Not Allowed

None

2.5.3.10 CGPNScr / PNScr / OCNSCr / RGNSCr

2.5.3.10.1 Description

This attribute is matched if a screening indicator match is made between the call's screening indicator and the specified screening indicator.

2.5.3.10.2 Definition

| Applicable | Modes | User Type |
|------------|------------|----------------|
| All | No-Default | Drop Down List |

2.5.3.10.3 Values

| Value |
|-------|
|-------|

User provided verified and passed

User provided not verified

User provided verified and failed

Network provided

None

2.5.3.11 SETCGPNScr / SETPNScr / SETOCNSCr / SETRGNSCr

2.5.3.11.1 Description

If the db parameter is matched and this attribute is set the screening presentation indicator will be set to this value.

2.5.3.11.2 Definition

| Applicable | Modes | User Type |
|------------|------------|----------------|
| All | No-Default | Drop Down List |

2.5.3.11.3 Values

Value

User provided verified and passed

User provided not verified

User provided verified and failed

Network provided

None

2.5.3.12 CDPNDispName / CGPNDispName

2.5.3.12.1 Description

This attribute is matched if a display name match is made between the call's display name and the specified display name.

2.5.3.12.2 Definition

| Applicable | Modes | User Type |
|------------|------------|-----------|
| SIP | Read | User name |
| | Write | |
| | No-Default | |

2.5.3.13 Circuit

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.5.3.14 Bearer

2.5.3.14.1 Description

For TDM circuits this attribute is matched if a bearer capability match is made between the call's bearer capability and the specified bearer capability.

2.5.3.14.2 Definition

| Applicable | Modes | User Type |
|--------------|------------|----------------|
| TDM Circuits | Read | Drop Down List |
| | Write | |
| | No-Default | |

2.5.3.14.3 Values

Value

Unknown

Speech

3.1KHz

7KHz

64K Restricted

64K Unrestricted

None

2.5.3.15 Network

2.5.3.15.1 Description

This attribute is matched if a network match is made between the call's originating network and the specified network.

2.5.3.15.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|----------------|
| All | Read Write No-Default | Drop Down List |

2.5.3.15.3 Values

| Value |
|-------|
|-------|

ISUP Circuit

ISUP Circuit DI

IUP Circuit

ANSI Circuit

ANSI Circuit DI

HG23 Stack

SIP Stack

2.5.3.16 Address

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.5.3.17 TOD Low

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.5.3.18 TOD High

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.5.3.19 SETBearer

2.5.3.19.1 Description

If the db parameter is matched and this attribute is set the outgoing bearer capability will be set to this value.

2.5.3.19.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|----------------|
| TDM only | Read Write No-Default | Drop down list |

2.5.3.19.3 Values

| Value |
|------------------|
| Unknown |
| Speech |
| 3.1KHz |
| 7KHz |
| 64K Restricted |
| 64K Unrestricted |
| None |

2.5.3.20 SetCIPNiType

2.5.3.20.1 Description

If the db parameter is matched and this attribute is set the outgoing carrier identification network identification type will be set to this value.

2.5.3.20.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-----------|
| ANSI ISUP | Read Write No-Default | Integer |

2.5.3.21 SetCIPNiPlan

2.5.3.21.1 Description

If the db parameter is matched and this attribute is set the outgoing carrier identification network identification plan will be set to this value.

2.5.3.21.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-----------|
| ANSI ISUP | Read Write No-Default | Integer |

2.5.3.22 SetTransNetSel**2.5.3.22.1 Description**

(ANSI Only) If SetTNS_CCt is not set, this value will be inserted to an outgoing ANSI ISUP IAM message. The format is the whole IE in hex.

2.5.3.22.2 Definition

| Applicable | Modes | User Type |
|------------|------------|-----------|
| ANSI ISUP | Read | String |
| | Write | |
| | No-Default | |

2.5.3.22.3 Values

The IE in hex e.g. h23,h03,h21,H19,h11

2.5.3.23 SetTNS_Cct**2.5.3.23.1 Description**

(ANSI Only) If, (as a result of interworking, or using the 'cipprefix' attributes) there is a CIP digit field available, it will be used along with this value, and SetCIPNiType/SetCINiPlan, to form the ANSI Transit Network Selection IE. This will then be included in the outgoing ANSI ISUP IAM message.

2.5.3.23.2 Definition

| Applicable | Modes | User Type |
|------------|------------|-----------|
| ANSI ISUP | Read | Integer |
| | Write | |
| | No-Default | |

2.5.3.24 CSI**2.5.3.24.1 Description**

This attribute is matched if a carrier selection information match is made between the call's originating carrier selection information and the specified carrier selection information.

2.5.3.24.2 Definition

| Applicable | Modes | User Type |
|------------|------------|-----------|
| ANSI ISUP | Read | Integer |
| | Write | |
| | No-Default | |

2.5.3.25 SetCsi**2.5.3.25.1 Description**

If the db parameter is matched and this attribute is set the outgoing carrier selection identification will be set to this value.

2.5.3.25.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
|------------|-------|-----------|

| | | |
|-----------|------------|---------|
| ANSI ISUP | Read | Integer |
| | Write | |
| | No-Default | |

2.5.3.26 MatchDb

2.5.3.26.1 Description

This resource identifier range allows for nesting of db parameters allowing for greater complexity of routing to be setup.

2.5.3.26.2 Definition

| Applicable | Modes | User Type |
|------------|------------|---------------------------|
| All | Read | Resource Identifier range |
| | Write | |
| | No-Default | |

2.5.3.27 Add Routes / Routes / Add Route

2.5.3.27.1 Description

For a matched DB parameter this defines a resource list of outgoing hunt groups that the outgoing call will be attempted on depending on the hunt groups routing algorithm.

2.5.3.27.2 Definition

| Applicable | Modes | User Type |
|------------|-------|---------------|
| All | Write | Resource List |
| | Read | |

2.5.3.28 Add percentage / Percentage

2.5.3.28.1 Description

If the percentage routing algorithm is used this defines a list of percentages the hunt group will be used in routing attempts for hunt groups of the same priority. The position in this list of the percentage matches the position of the hunt group in the Route list

2.5.3.28.2 Definition

| Applicable | Modes | User Type |
|------------|-------|---------------|
| All | Write | Resource List |
| | Read | |

2.5.3.29 Priority

2.5.3.29.1 Description

If the percentage routing algorithm is used this defines the priority of the hunt group. The lower the number the higher the priority of the hunt group. The hunt group will be selected in order of priority. If two or more hunt groups have the same priority the percentage field is used to select between this hut groups.

2.5.3.29.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| All | Write | |
| | Read | |

2.5.3.30 RouteAlgorithm

2.5.3.30.1 Description

This defines the algorithm used to chose the relevant outgoing hunt group from the route resource list of hunt groups

2.5.3.30.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| | Read | |
| | Write | |

2.5.3.30.3 Values

| Value | Description |
|------------|--|
| Hunt Low | For each new call through this db parameter the first hunt group specified in the route list will be used. |
| Loadshare | Calls will be shared evenly across the hunt groups in the route list |
| Percentage | Calls will be shared across the hunt groups as defined by the hunt group's priority and percentage |

2.5.3.31 RetryCount

2.5.3.31.1 Description

This attribute specifies the maximum number of reattempts that will be taken on a per call basis across the route list.

2.5.3.31.2 Definition

| Applicable | Modes | User Type |
|------------|-------|-----------|
| All | Read | Integer |
| | Write | |

2.5.3.32 Route

2.5.3.32.1 Description

If the DB parameter is attached to a hunt group, this attribute will match if the outgoing call's network is equal to the route definition.

2.5.3.32.2 Definition

| Applicable | Modes | User Type |
|-------------------------|-------|----------------|
| On outgoing hunt groups | Read | Drop Down List |

Write

No-Default

2.5.3.32.3 Values

| Value |
|-----------------|
| ISUP Circuit |
| ISUP Circuit DI |
| IUP Circuit |
| ANSI Circuit |
| ANSI Circuit DI |
| HG23 Stack |
| SIP Stack |

2.5.3.33 Call Control**2.5.3.33.1 Description**

This resource pointer contains the identity of the Call Control resource applicable to a call routing using this Db Parameter. The Call Control resource contains additional call related options. This field will override any Call Control setting made on the VoIP Destination of Hunt Group resources.

2.5.3.33.2 Definition

| Applicable | Modes | User Type |
|------------|---------------|---------------------|
| All | Read Write | Resource Identifier |

2.5.3.34 Cost

This attribute has come to its End of Life (EOL). Whilst it still appears as an attribute it has no impact on the system and will shortly be removed.

2.5.3.35 CGPNPrefixAlgorithm**2.5.3.35.1 Description**

If outgoing calls need to use auto-generated CGPN instead of the received CGPN, this attribute along with the CGPNPrefix can be used to auto generate CGPN. The CGPNPrefix should be set to a range of numbers that the digits will be chosen from. supported formats are

[x-y] e.g. [0000-9999]

a[x-y] e.g. 44[0000-9999]

[x-y]a e.g. [0000-9999]12

a[x-y]b e.g. 44[0000-9999]12

2.5.3.35.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|----------------|
| All | Read Write No-Default | Drop down list |

2.5.3.35.3 Values

| Value | Description |
|--------------------|---|
| None | Do not apply any algorithm |
| Unique Random | Number picked will be selected randomly between the number ranges, the number chosen will be unique for all current calls. |
| Unique Incremental | Number will be picked in incremental order starting from the low range boundary, the number chosen will be unique for all current calls. |
| Unique Decremental | Number will be picked in decremental order starting from the high range boundary, the number chosen will be unique for all current calls. |
| Random | Number picked will be selected randomly between the number ranges |
| Increment | Number will be picked in incremental order starting from the low range boundary |
| Decremental | Number will be picked in decremental order starting from the high range boundary |

2.5.3.36 Enforce Rules

2.5.3.36.1 Description

This attribute enforces the prefixAlgorithm syntax. If set to True then if the syntax is incorrect the SVI will not execute the command

2.5.3.36.2 Definition

| Applicable | Modes | User Type |
|-----------------------|-----------------------------|-----------|
| If CGPNPrefix is used | Read Write No-Default | Boolean |

2.5.3.37 CPC

2.5.3.37.1 Description

This attribute is matched if a called party category match is made between the call's CPC and the specified selection of CPC.

2.5.3.37.2 Definition

| Applicable | Modes | User Type |
|------------|-------|---------------|
| All | Read | Integer range |

Write

No-Default

2.5.3.38 International**2.5.3.38.1 Description**

This attribute is matched if a FCI international bit match is made between the call's international bit and the specified international bit.

2.5.3.38.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|----------------|
| IUP | Read Write No-Default | Drop Down List |

2.5.3.38.3 Values

| Value |
|-------|
|-------|

No Info

International

2.5.3.39 NASBearer**2.5.3.39.1 Description**

If this db parameter is matched and the call is a NAS call using MGCP as the Media Gateway protocol, the NASBearer attribute defines the value of the MGCP "nas/bt" attribute.

2.5.3.39.2 Definition

| Applicable | Modes | User Type |
|----------------|-----------------------------|----------------|
| MGCP NAS Calls | Read Write No-Default | Drop Down list |

2.5.3.39.3 Values

| Value |
|-------|
|-------|

Modem

Digital

None

2.5.3.40 NANBandwidth**2.5.3.40.1 Description**

If this db parameter is matched and the call is a NAS call using MGCP as the Media Gateway protocol, the NASBandwidth attribute defines the value of the MGCP "b:" attribute.

2.5.3.40.2 Definition

| Applicable | Modes | User Type |
|----------------|-----------------------------|----------------|
| MGCP NAS Calls | Read Write No-Default | Drop Down List |

2.5.3.40.3 Values

| Value |
|-------|
| 56 |
| 64 |
| None |

2.5.3.41 Reject

2.5.3.41.1 Description

If this attribute is set to a value greater than zero to identify a clearing call, if this db parameter is matched the call will be rejected back with this clearing cause.

2.5.3.41.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-----------|
| All | Read Write No-Default | Integer |

2.5.3.42 Dial Plan

2.5.3.42.1 Description

This is similar to the standard matching field cdpn but has slightly different notation.

2.5.3.42.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-------------|
| All | Read Write No-Default | Digit Match |

2.5.3.42.3 Values

The dial plan string can be either a simple set of digits as a prefix to match the beginning of the incoming number or may also include the following notation:

[234] - Match any of the enclosed digits

- [1-5] - Match any of the enclosed range of digits
- x - Match any digit
- S0 - Can be used at the end of the string to restrict the length
- ! - Reject the call if the string is matched
- <aaa:bbb> - Modify the incoming number by removing

For example:

- 1234 - will match any number which begins 1234 of any length (4 or more)
- 1234xxx - will match any number which begins 1234 and is at least 7 digits long (the 5th to 7th and subsequent digits can be anything)
- 1234xxxS0 - will match any number which begins 1234 and is exactly 7 digits long (the 5th to 7th digits can be anything)
- xxx1234 - will match any number which has three digits (of anything) followed by 1234 and then any number of trailing digits
- [123]234 - will match any number which begins 1234, 2234 or 3234 of any length
- 0[1-3] - will match any number with starts with 0 followed by a 1, 2 or 3 of any length
- <44:>1234 - will match any number which begins 441234 or 1234 and will remove the 44 if present
- <:44>1234 - will match any number which begins 1234 and will prepend 4 to the beginning

2.5.3.43 Charge

2.5.3.43.1 Description

This attribute is used to initiate Meter Pulse or Charge messages into the network. This user string uses a formula to allow for variations on charging to be applied from a db parameter. The syntax for the charge field is:

charge units=u1;pulse=p1;duration=d1,charge units=u2;pulse=p2;duration=d2

Charge is the number of charge units sent.

Pulse is the duration in seconds between each transmission of charge units.

Duration is the number of times this cycle is repeated.

2.5.3.43.2 Definition

| Applicable | Modes | User Type |
|------------|------------|-------------|
| All | Read | User string |
| | Write | |
| | No-Default | |

2.5.3.44 Ported Number

2.5.3.44.1 Description

For SIP to ANSI ISUP if this db parameter is matched and the ported number is set, the outgoing CDPN will contain this ported number if the incoming message does not contain a ported number.

2.5.3.44.2 Definition

| Applicable | Modes | User Type |
|------------------|-----------------------------|--------------|
| SIP to ANSI ISUP | Read Write No-Default | Digit string |

2.5.3.45 Options

2.5.3.45.1 Description

This contains additional routing options.

2.5.3.45.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|---------------|
| All | Read Write No-Default | Bit mask flag |

2.5.3.45.3 Values

| Value | Description |
|----------------|---|
| LI-from-Target | Identifies a Db parameter rule which routes from a LI (Lawful Intercept) intercepted party. |
| LI-to-Target | Identifies a Db parameter rule which routes to a LI (Lawful Intercept) intercepted party. |

2.5.3.46 Ringing To

2.5.3.46.1 Description

If this db parameter is matched this timer in seconds will limit the maximum time the call will remain in the ringing stage.

2.5.3.46.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-----------|
| All | Read Write No-Default | Seconds |

2.5.3.47 Answer To

2.5.3.47.1 Description

If this db parameter is matched this timer in seconds will limit the maximum time the call will remain in the answer stage.

2.5.3.47.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|-----------|
| All | Read Write No-Default | Seconds |

2.5.3.48 IE Present

2.5.3.48.1 Description

This match option allows for a list of information elements that must either be present or not present for this attribute to match. The list contains a comma separated list of information element tags. If a match is to be made if an information element is not present then prefix the information element tag value with the '!' character

2.5.3.48.2 Definition

| Applicable | Modes | User Type |
|------------|-----------------------------|--------------|
| All | Read Write No-Default | Integer list |

2.5.3.49 LI Hunt Group

2.5.3.49.1 Description

When the DB Parameter is being used to setup lawful intercept this resource identifier defines the outgoing hunt group for which the HI3 call will be made on to the lawful agency.

2.5.3.49.2 Definition

| Applicable | Modes | User Type |
|------------------|---------------|---------------------|
| Lawful Intercept | Read Write | Resource Identifier |

2.5.3.50 LI LIID

2.5.3.50.1 Description

This specifies the Lawful Interception ID for the HI2 interface.

2.5.3.50.2 Definition

| Applicable | Modes | User Type |
|------------------|-----------------------------|-------------|
| Lawful Intercept | Read Write No-Default | User String |

2.5.3.51 LI Agency

2.5.3.51.1 Description

This resource identifier points to the relevant LI Agency resource which contains details of the Lawful Intercept Agency.

2.5.3.51.2 Definition

| Applicable | Modes | User Type |
|------------------|---------------|---------------------|
| Lawful Intercept | Read Write | Resource Identifier |

2.5.3.52 DNS

2.5.3.52.1 Description

If the user wants to route to an end point via a DNS lookup, this allows for the DNS lookup address to be applied for this matched db parameter

2.5.3.52.2 Definition

| Applicable | Modes | User Type |
|--------------------|-----------------------------|-------------|
| Routing DNS Lookup | Read Write No-Default | User string |

2.5.3.53 Interworking

2.5.3.53.1 Description

For outgoing db parameters attached to a hunt group this allows for a match to be made against the interworking between the incoming and outgoing protocols, enabling only certain inter-workings to have these rules applied.

2.5.3.53.2 Definition

| Applicable | Modes | User Type |
|------------------------|-----------------------------|---------------|
| Outgoing db parameters | Read Write No-Default | Bit mask flag |

2.5.3.53.3 Values

| Value |
|-------|
| H323 |
| TUP |
| ISUP |
| CTUP |
| SIP |
| ISDN |

SI

IUP

2.5.3.54 Reject Location**2.5.3.54.1 Description**

For ISUP call rejection at the routing criteria, this attribute defines the location of the rejection for the backward REL message.

2.5.3.54.2 Definition

| Applicable | Modes | User Type |
|-------------------|------------|----------------|
| For ISUP circuits | Read | Drop Down list |
| | Write | |
| | No-Default | |

2.5.3.54.3 Values

| Value |
|-------------------------------------|
| None |
| User |
| Private-network-serving-local-user |
| Public-network-serving-local-user |
| Transit-network |
| Public-network-service-remote-user |
| Private-network-service-remote-user |
| International-network |
| Network-beyond-interworking-point |

2.5.3.55 collectCall**2.5.3.55.1 Description**

This attribute is matched if a match is made between the call's originating collect call flag and the specified collect call flag.

2.5.3.55.2 Definition

| Applicable | Modes | User Type |
|----------------|------------|-----------|
| Brazilian ISUP | Read | Integer |
| | Write | |
| | No-Default | |

2.5.3.56 SetCollectCall**2.5.3.56.1 Description**

If the db parameter is matched and this attribute is set the outgoing collect call flag will be set to this value.

2.5.3.56.2 Definition

| Applicable | Modes | User Type |
|----------------|-----------------------------|-----------|
| Brazilian ISUP | Read Write No-Default | Integer |

2.5.3.57 SetTransNetSel

2.5.3.57.1 Description

The whole Transit Network Selection IE (length + contents) going into the ANSI ISUP IAM message.

2.5.3.57.2 Definition

| Applicable | Modes | User Type |
|--------------------|-----------------------------|-------------|
| Routing DNS Lookup | Read Write No-Default | User string |

2.5.3.58 SetTNS_Cct

2.5.3.58.1 Description

The Circuit Code value going into the ANSI ISUP IAM message.

2.5.3.58.2 Definition

| Applicable | Modes | User Type |
|----------------|-----------------------------|-----------|
| Brazilian ISUP | Read Write No-Default | Integer |

2.5.3.59 VoIPStack

2.5.3.59.1 Description

The incoming leg VoIPStack match if the call is a VoIP call.

2.5.3.59.2 Definition

| Applicable | Modes | User Type |
|--------------|-----------------------------|---------------------|
| VOIP Routing | Read Write No-Default | Resource Identifier |

2.5.3.60 retrieveMsrn

2.5.3.60.1 Description

If set then an SRI will be sent for all calls matching the criteria for the DP point

2.5.3.60.2 Definition

| Applicable | Modes | User Type |
|--------------|----------------------------------|-----------|
| retrieveMsrn | Read Write Default - False | Integer |

2.5.3.61 initialDpLookup

2.5.3.61.1 Description

If set then an initial DP will be sent for all calls matching the criteria for the DP point

2.5.3.61.2 Definition

| Applicable | Modes | User Type |
|-----------------|----------------------------------|-----------|
| initialDpLookup | Read Write Default - False | Integer |

2.5.3.62 initialDpServiceKey

2.5.3.62.1 Description

Sets the Service Key for an initialDp if not present in the incoming message

2.5.3.62.2 Definition

| Applicable | Modes | User Type |
|---------------------|------------------------------|-----------|
| initialDpServiceKey | Read Write Default - 1 | Integer |

2.5.3.63 initialDpCdNoa

2.5.3.63.1 Description

Sets the called party number Nature of address for an initialDp message

2.5.3.63.2 Definition

| Applicable | Modes | User Type |
|----------------|--|----------------|
| initialDpCdNoa | Read Write Default - International | Drop Down List |

2.5.3.63.3 Values

| Value |
|-------|
|-------|

Spare

Subscriber

Unknown

National

International

Network Specific

UK Specific

Ignore/Leave

2.5.3.64 initialDpCgInnInd**2.5.3.64.1 Description**

Sets the Called Party INN Indicator for an initialDp message

2.5.3.64.2 Definition

| Applicable | Modes | User Type |
|-----------------|---|----------------|
| initialDpInnInd | Read Write Default - Routing Not Allowed | Drop Down List |

2.5.3.64.3 Values

| Value |
|---------------------|
| Routing Allowed |
| Routing Not Allowed |

2.5.3.65 initialDpCdNpi**2.5.3.65.1 Description**

Sets the called party number Numbering Plan Indicator for an initialDp message

2.5.3.65.2 Definition

| Applicable | Modes | User Type |
|----------------|---------------------------------|----------------|
| initialDpCdNpi | Read Write Default - ISDN | Drop Down List |

2.5.3.65.3 Values

| Value |
|-----------------|
| Unknown |
| ISDN |
| Generic |
| Data |
| Telex |
| Maritime Mobile |
| Land Mobile |
| ISDN/mobile |
| Ignore / Leave |

2.5.3.66 initialDpCgNoa

2.5.3.66.1 Description

Sets the calling party number Nature of address for an initialDp message

2.5.3.66.2 Definition

| Applicable | Modes | User Type |
|----------------|--|----------------|
| initialDpCgNoa | Read Write Default - International | Drop Down List |

2.5.3.66.3 Values

| Value |
|------------------|
| Spare |
| Subscriber |
| Unknown |
| National |
| International |
| Network Specific |
| UK Specific |
| Ignore/Leave |

2.5.3.67 initialDpCgNilnd

2.5.3.67.1 Description

Sets the calling party number Nature of address for an initialDp message

2.5.3.67.2 Definition

| Applicable | Modes | User Type |
|------------------|---------------------------------------|----------------|
| initialDpCgNiInd | Read Write Default - Incomplete | Drop Down List |

2.5.3.67.3 Values

| Value |
|-------|
|-------|

Complete

Incomplete

2.5.3.68 initialDpCgNpi

2.5.3.68.1 Description

Sets the calling party number Numbering Plan Indicator for an initialDp message

2.5.3.68.2 Definition

| Applicable | Modes | User Type |
|----------------|---------------------------------|----------------|
| initialDpCdNpi | Read Write Default - ISDN | Drop Down List |

2.5.3.68.3 Values

| Value |
|-------|
|-------|

Unknown

ISDN

Generic

Data

Telex

Maritime Mobile

Land Mobile

ISDN/mobile

Ignore / Leave

2.5.3.69 initialDpCgAddrPres

2.5.3.69.1 Description

Sets the calling party number Address presentation restricted indicator for an initialDp message

2.5.3.69.2 Definition

| Applicable | Modes | User Type |
|---------------------|------------------------------------|----------------|
| initialDpCgAddrPres | Read Write Default - Allowed | Drop Down List |

2.5.3.69.3 Values

| Value |
|-------|
|-------|

Spare

Allowed

Restricted

Address not Allowed

None

2.5.3.70 initialDpCgScrInd

2.5.3.70.1 Description

Sets the calling party number screening indicator for an initialDp message

2.5.3.70.2 Definition

| Applicable | Modes | User Type |
|-------------------|---|----------------|
| initialDpCgScrInd | Read Write Default - Network Provided | Drop Down List |

2.5.3.70.3 Values

| Value |
|-------|
|-------|

User Provided verified and passed

User provided not verified

User provided verified and failed

Network Provided

None

2.5.3.71 initialDpCgPartyCat

2.5.3.71.1 Description

Sets the calling party category for an initialDp message

2.5.3.71.2 Definition

| Applicable | Modes | User Type |
|---------------------|-------------------------------|-----------|
| initialDpCgPartyCat | Read Write Default - 10 | Integer |

2.5.3.72 initialDpFwdCallInd

2.5.3.72.1 Description

Sets the Forward Call Indicators for an initialDp message

2.5.3.72.2 Definition

| Applicable | Modes | User Type |
|---------------------|---------------------------------|-----------|
| initialDpFwdCallInd | Read Write Default - 2001 | Integer |