



# APPENDIX **B**

## ISC XML Reference

This appendix contains an alphabetical listing of the XML rules, tags, and attributes that are used in the XML files used for ISC Discovery.

For a detailed description of the XML files and XML examples, see [Chapter 4, “Service Inventory—Discovery.”](#)

**Table B-1**      *ISC XML Rules, Tags, and Attributes*

| Tag                            | Description                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>&lt;as-number&gt;</b>       | Specifies the autonomous system (AS) number for the provider. The AS number can be an integer between 1 and 65535.                                                                                                                                                                                                                                    |
| <b>&lt;CDP&gt;</b>             | Starts a <b>&lt;CDP&gt;</b> tag. The <b>&lt;CDP&gt;</b> tag specifies an seed IP address and a hop count.<br><br>The <b>&lt;CDP&gt;</b> tag must contain the following attributes: <ul style="list-style-type: none"><li>• <b>ipaddress</b></li><li>• <b>hop</b></li></ul>                                                                            |
| <b>&lt;connection&gt;</b>      | Starts a <b>&lt;connection&gt;</b> tag. The <b>&lt;connection&gt;</b> tag must specify the following attributes: <ul style="list-style-type: none"><li>• <b>discovery-protocol</b></li><li>• <b>fromDevice</b></li><li>• <b>FromIP</b></li><li>• <b>FromInterface</b></li><li>• <b>toDevice</b></li><li>• <b>toIP</b></li><li>• <b>toIF</b></li></ul> |
| <b>&lt;create-customer&gt;</b> | Starts a <b>create-customer</b> rule. The <b>create-customer</b> rule creates a region object. the create-customer rule must contain the following tags: <ul style="list-style-type: none"><li>• <b>&lt;customer-name&gt;</b></li><li>• <b>&lt;create-site&gt;</b></li></ul>                                                                          |

Table B-1 ISC XML Rules, Tags, and Attributes (continued)

| Tag                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>&lt;create-provider&gt;</b>  | <p>Starts a <b>create-provider</b> rule. The create-provider rule creates a service provider object.</p> <p>The <b>create-provider</b> rule must contain the following tags:</p> <ul style="list-style-type: none"> <li>• <b>&lt;provider-name&gt;</b></li> <li>• <b>&lt;as-number&gt;</b></li> <li>• <b>&lt;create-region&gt;</b></li> </ul>                                                                                      |
| <b>&lt;create-region&gt;</b>    | <p>Starts a <b>create-region</b> rule. The <b>create-region</b> rule creates a region object. The <b>create-region</b> rule must contain a <b>region-name</b> tag.</p>                                                                                                                                                                                                                                                             |
| <b>&lt;create-site&gt;</b>      | <p>Starts a <b>create-site</b> rule. The create-site rule must contain a <b>&lt;site-name&gt;</b> tag.</p>                                                                                                                                                                                                                                                                                                                         |
| <b>&lt;customer-name&gt;</b>    | <p>Specifies a customer name. Required within the <b>create-customer</b> rule.</p>                                                                                                                                                                                                                                                                                                                                                 |
| <b>&lt;device&gt;</b>           | <p>Starts a <b>&lt;device&gt;</b> tag. The <b>&lt;device&gt;</b> tag must contain the following tags:</p> <ul style="list-style-type: none"> <li>• <b>&lt;device-name&gt;</b></li> <li>• <b>&lt;ip-address&gt;</b></li> </ul> <p>The following tags are optional within the <b>&lt;device&gt;</b> tag:</p> <ul style="list-style-type: none"> <li>• <b>&lt;system-object-id&gt;</b></li> <li>• <b>&lt;snmp-info&gt;</b></li> </ul> |
| <b>&lt;device-name&gt;</b>      | <p>Specifies the name of the device. Required within the <b>&lt;device&gt;</b> tag.</p>                                                                                                                                                                                                                                                                                                                                            |
| <b>&lt;DISCOVERY_METHOD&gt;</b> | <p>Starts a <b>&lt;DISCOVERY_METHOD&gt;</b> tag. The <b>&lt;DISCOVERY_METHOD&gt;</b> tag must contain a <b>&lt;CDP&gt;</b> tag.</p>                                                                                                                                                                                                                                                                                                |
| <b>discovery-protocol</b>       | <p>Specifies the Discovery protocol used to discover the network topology. Normally, this is “CDP.”</p>                                                                                                                                                                                                                                                                                                                            |
| <b>fromDevice</b>               | <p>Specifies the name of the device from which the Named Physical Circuit starts. Required attribute for the <b>&lt;connection&gt;</b> tag.</p>                                                                                                                                                                                                                                                                                    |
| <b>FromInterface</b>            | <p>Specifies the name of the device interface from which the Named Physical Circuit starts. Required attribute for the <b>&lt;connection&gt;</b> tag.</p>                                                                                                                                                                                                                                                                          |
| <b>FromIP</b>                   | <p>Specifies the management IP address of the device from which the Named Physical Circuit starts. Required attribute for the <b>&lt;connection&gt;</b> tag.</p>                                                                                                                                                                                                                                                                   |

**Table B-1** *ISC XML Rules, Tags, and Attributes (continued)*

| Tag                             | Description                                                                                                                                                                |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>hop</b>                      | Specifies the number of hops from the device identified by the <b>ipaddress</b> attribute to go in discovering devices. Required attribute for the <b>&lt;CDP&gt;</b> tag. |
| <b>ipaddress</b>                | Specifies the IP address of a seed device. Required attribute for the <b>&lt;CDP&gt;</b> tag.                                                                              |
| <b>&lt;ip-address&gt;</b>       | Specifies the IP address of the device. Required within the <b>&lt;device&gt;</b> tag.                                                                                     |
| <b>&lt;provider-name&gt;</b>    | Specifies the name of the provider.                                                                                                                                        |
| <b>&lt;region-name&gt;</b>      | Specifies the name of a region.                                                                                                                                            |
| <b>&lt;ro-community&gt;</b>     | Specifies the level of SNMP access for the device. Normally, this should be “public.” Required within the <b>&lt;snmp-info&gt;</b> tag.                                    |
| <b>&lt;site-name&gt;</b>        | Specifies a site name.                                                                                                                                                     |
| <b>&lt;snmp-info&gt;</b>        | Specifies SNMP information for the device. The <b>&lt;snmp-info&gt;</b> tag must contain a <b>&lt;ro-community&gt;</b> tag. Optional within the <b>&lt;device&gt;</b> tag. |
| <b>&lt;system-object-id&gt;</b> | (optional) Can be included to specify the SNMP Object ID (OID) for the device. If this is provided, it is specified within the <b>&lt;device&gt;</b> tag.                  |
| <b>toDevice</b>                 | Specifies the name of the device to which the Named Physical Circuit connects. Required attribute for the <b>&lt;connection&gt;</b> tag.                                   |
| <b>toIF</b>                     | Specifies the device interface on the device to which the Named Physical Circuit connects. Required attribute for the <b>&lt;connection&gt;</b> tag.                       |
| <b>toIP</b>                     | Specifies the management IP address of the device from which the Named Physical Circuit connects. Required attribute for the <b>&lt;connection&gt;</b> tag.                |

