Management Address Grouping (.1Qcx) suggested solution

This is additional informational material to the topic Management Address Grouping (.1Qcx) suggested solution discussed in the YANGsters meeting at the March 2019 802 Plenary Meeting in Vancouver. Also see the CFM YANG module (ieee802-dot1q-cfm.yang).

grouping management-address-grouping {
  description
    "Defines the Management Address.";
  reference
    "21.5.3.5 of IEEE Std 802.1Q-2018";

  leaf domain {
    type yang:object-identifier-128;
    description
      "The domain type.";
  }

  choice management-address {
    when "/.domain";
    description
      "Selects the management address";

    case ip {
      description
        "Represents an IP TCP, UDP, or SCTP transport";

    }
  }
}
address consisting of an IPv4/v6 address, and a port number, associated with the domain type defined by the domain leaf node.

leaf ip-address {
    type inet:ip-address;
    mandatory true;
    description "IPv4 or IPv6 address.";
}

leaf ip-port {
    type inet:port-number;
    mandatory true;
    description "IP port.";
}

case local {
    leaf local-address {
        type string {
            length '1..255';
        }
        mandatory true;
    }
}
case dns {

  leaf dns-address {

    type string {

      length "1..255";

    }

    mandatory true;

    description

    "The transport domain using fully qualified domain
    names, associated with the domain type defined by the
    domain leaf node. Represents a DNS domain name followed
    by a colon ' :' (ASCII character 0x3A) and a port number
    in ASCII. The name SHOULD be fully qualified whenever
    possible.";

  }

}

case other {

}
leaf unknown-address {

type binary {

    length "1..255";
}

description

    "This represents an undefined address, for the case when
    the domain type provided is an unrecognizable value.";

}
}