

# Common YANG Data Types

draft-ietf-netmod-yang-types-02

IETF 74

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# Summary of changes since -01

- Renamed all modules with the prefix 'ietf-'
- Added new type yang:xpath for XPath expressions
- Fixed bug in regexp pattern for object-identifier-128
- Defined the canonical form for date-and-time
- ipv4-prefix/ipv6-prefix: Specified that all bits not part of the prefix must be zero.

# xpath

Should the 'xpath' datatype be renamed to 'xpath1', 'xpath1-0' or 'xpath1.0' to accommodate definitions of other XPath versions in the future?

Problem: What is the canonical form of an XPath expression?

Proposal: Don't define a canonical form.

# Ipv6 Address Pattern

Which pattern should be used?

Do we need a pattern at all?

# Ipv6 Address Prefix Pattern

Q. Do we have to support all IPv6 address writing styles, or can we go ahead with just the canonical IPv6 address format?

# DNS names

C. DNS expert advice is needed so we get the restrictions on DNS label right and future proof.

Currently the 'domain-name' type has a pattern which is too restrictive for general DNS names.

# URI Pattern

C. URI expert advice is needed to answer the question if it is safe to use the regular expression from RFC 3986.

Currently the 'uri' type is defined as a string with restrictions in the description clause only.

# IEEE port list

- Q. It has been suggested to add a port-list typedef, but no concrete suggestion has been made.
- C. One option is to represent a port list as a comma separated list of port ranges, where a port range is either a port number or a port number followed by a hyphen and a port number, e.g.

1-5,8,10-22

Ranges may not overlap and they may not be consecutive and they must be in ascending order to achieve a canonic representation.



# Other Vlan types

- Q. It has been suggested to add more VLAN related typedefs, but no concrete suggestions has been made so far.
- C. Poll for concrete suggestions until <DEADLINE> and drop this if no concrete suggestions are being made.