YANG Status Statement

Considers for YANGsters

yangsters-smansfield-yang-status-statement-v01
Modifying a published module

• RFC 7950 section 11
  • https://www.rfc-editor.org/rfc/rfc7950.html#section-11
  • Contains the guidelines for modification of a published module

• The status statement
  • https://www.rfc-editor.org/rfc/rfc7950.html#section-7.21.2
  • Provides three options that indicate the status of the node
    • current
    • deprecated
    • obsolete
Example of change (From Qcw D2.0 ballot)

Published module type is changed

Updated module
Guidance from RFC 7950

A "type" statement may be replaced with another "type" statement that does not change the syntax or semantics of the type. For example, an inline type definition may be replaced with a typedef, but an int8 type cannot be replaced by an int16, since the syntax would change.

• This guidance indicates that the change in type from string to leafref is not a backward compatible change because the syntax of the value has changed.

• Therefore "deprecating" component-name and creating a new leaf (for example) component-name-ref with the status of current would be proper
Discussion

• We have the option of ignoring the guidance

• If anyone has implemented the bridge model, their implementations would break if they tried to use the new bridge module once Qcw is published.

• However, the existing bridge model was arguably incorrect, so one argument is that leafref and the subsequent path statements fix a bug.

• Now that IEEE 802.1 has several modules that are published, people that review YANG should review section 11 of RFC 7950 for guidance when updating published modules.