

Information Model for WSON Impairments Validation

draft-martinelli-ccamp-wson-iv-info-03

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ITU SG15/Q6 Relationship

- Received liaison answer
 - Special Thanks to Q6: Peter Stassar and Pete Anslow.
- Detailed raw list of parameters.
- Statements about limitation and uncertainty of the computational models.

Editorial Changes

- Reorganized sections Sections 1 and 2.
- Changed some Narrative
- Clearly scope the Impairment Information Model.
- Any additional information you like beyond RFC6566?

New Section 3

- Recollect all information that are specific to ITU.
- List of all parameters as detailed by ITU Liaison.
- Previous List of parameter available in version 02 is now integrated here

Reusing Resource Block

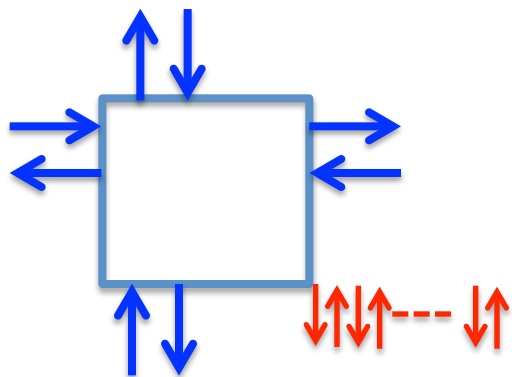
- Definition from draft-ietf-ccamp-rwa-info:

```
ResourceBlockInfo ::=  
  <ResourceBlockSet> [<InputConstraints>]  
  [<ProcessingCapabilities>] [<OutputConstraints>]
```

- Proposed extension:

```
ResourceBlockInfo ::=  
  <ResourceBlockSet> [<InputConstraints>]  
  [<ProcessingCapabilities>] [<OutputConstraints>] [<OIV>]
```

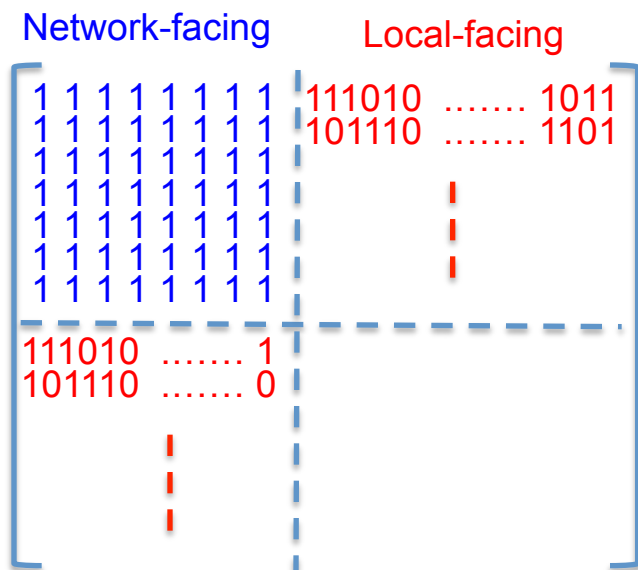
Some Background on WSON Info Model



4 Degree Node:

- 8 ports to/from others nodes in the networks
- n ports for add/drop: WSON case, could be as many as from RFC6502

The connectivity matrix does not (need to) distinguish among Network-Facing ports and Local-Facing ports.



- The **BLUE** sub-matrix is usually: homogeneous (always 1) with low cardinality.
- The **RED** sub-matrixes might be sparse and high cardinality.

The Resource Block Concept

- Resource Block
 - concept introduced to collect internal node resources with similar properties.
 - Reused through its identifier (encoding efficiency).
- Generalization:
 - resource block represent a common set of optical parameters.
- Encoding efficiency:
 - Cardinality of local-facing ports (add/drop path)

Next Please: Encoding Draft

Conclusions apply to both draft