

# Compatibility levels of communication network devices

# Compatibility levels of applications

- See contribution: 60802-Winkel-Principles-of-Standards-0518-v0;
- No changes needed and this presentation extends the compatibility levels with a viewpoint on a communication network.

# Different viewpoints to the compatibility levels

- The presented viewpoint to the compatibility levels in Pittsburgh, see 60802-Winkel-Principles-of-Standards-0518-v0, was driven by an **application viewpoint**. The viewpoint of **communication networking** was just verbally mentioned by LW. Here provided the definition for the view in written form for the viewpoint of **communication networking** .

# Viewpoint to an architectural description according to ISO/IEC/IEEE 402010

- A viewpoint is a way of looking at systems; a view is the result of applying a viewpoint to a particular system-of-interest.
- An architecture description shall include each architecture viewpoint used therein.
- An architecture description shall include exactly one architecture view for each architecture viewpoint used.

# Viewpoint of communication networking to define compatibility levels

| Pertinent meta-model  | Needed Feature   | Comaptibility levels |            |                   |                |                |                  |
|-----------------------|--|----------------------|------------|-------------------|----------------|----------------|------------------|
|                       |  | Incompatible         | Coexistent | Inter-connectable | Inter-workable | Inter-operable | Inter-changeable |
| ISO/OSI 7 layer model | Same Dynamic performance & ressources                                    |                      |            |                   |                |                |                  |
|                       | Same Engineering Interface / Detection protocol / Feature identification |                      |            |                   |                |                |                  |
|                       | Same DL & AL protocol and services                                       |                      |            |                   |                |                |                  |
|                       | Same DL protocol and services  |                      |            |                   |                |                |                  |
|                       | Same medium AND mitigation techniques                                    |                      |            |                   |                |                |                  |
|                       | Diff media   |                      |            |                   |                |                |                  |