Definition

Given a DPI $\langle \mathbf{F}, \mathbf{R}, \mathbf{I}, \mathsf{prov}, \mathsf{req} \rangle$, define the map $K : \mathbf{R} \to_{\mathsf{Pos}} \langle \mathcal{L} \mathbf{F}, \subseteq \rangle$ that associates to each resource r the set of functionalities which can be realized with r:

$$K: \mathbb{R} \to_{\mathbf{Pos}}$$
 $\langle \mathcal{L} \mathbb{F}, \subseteq \rangle,$ $r \mapsto \max_{\geq_{\mathbb{F}}} \{ \operatorname{prov}(i) \mid (i \in \mathbb{I}) \land (r \geq \operatorname{req}(i)) \}.$

If a certain resource r only leads to infeasible functionalities, then $K(r) = \emptyset$.