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

$$\begin{aligned} k : \mathbf{R} &\to_{\mathbf{Pos}} \mathcal{A}\mathbf{F}, \\ r &\mapsto \operatorname*{Max}_{\succeq_{\mathbf{F}}} \{\mathsf{prov}(i) \mid (i \in \mathbf{I}) \wedge (r \succeq \mathsf{req}(i))\}. \end{aligned}$$

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