

Definition. Given a DPI $\langle \mathbf{F}, \mathbf{R}, \mathbf{I}, \text{prov}, \text{req} \rangle$, we denote by $h : \mathbf{F} \rightarrow_{\text{Pos}} \mathcal{A}\mathbf{R}$ the monotone map that associates to each functionality f the objective function of ??, which is the set of minimal resources necessary to realize f :

$$\begin{aligned} h : \mathbf{F} &\rightarrow_{\text{Pos}} \mathcal{A}\mathbf{R}, \\ f &\mapsto \underset{\leq_{\mathbf{R}}}{\text{Min}}\{\text{req}(i) \mid (i \in \mathbf{I}) \wedge (f \leq \text{prov}(i))\}. \end{aligned}$$

If a certain functionality f is infeasible, then $h(f) = \emptyset$.