

**Definition.** Given a DPI  $\langle \mathbf{F}, \mathbf{R}, \mathbf{I}, \text{prov}, \text{req} \rangle$ , we denote by  $H : \mathbf{F} \rightarrow_{\mathbf{Pos}} \langle \mathcal{U}\mathbf{R}, \supseteq \rangle$  the monotone map that associates to each functionality  $f$  the set of minimal resources sufficient to realize  $f$ :

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

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