## Definition

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

$$H: \mathbf{F} \to_{\mathbf{Pos}}$$
  $\mathcal{U}\mathbf{R},$   $f \mapsto \{ \operatorname{req}(i) \mid (i \in \mathbf{I}) \land (f \leq \operatorname{prov}(i)) \}.$ 

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