Device [DB: secret s]
$$\begin{aligned} & (\mathbf{a},b) \leftarrow A_{\mathbf{s},\bar{\Psi}_{\alpha}} \\ & r \leftarrow \{0,1\} \\ & c \\ & r' \leftarrow \text{LPUF}(c) \end{aligned} \qquad \begin{matrix} c \\ & c \\ & c \\ & c \end{matrix} \qquad \text{accept if } r = r' \end{matrix}$$