

Client  $\rightarrow$  ATM(string). rec  $a$ .

$$\text{Client} \rightarrow \text{ATM} \left\{ \begin{array}{l} \text{deposit} : \text{Client} \rightarrow \text{ATM}(\text{nat}). \text{ATM} \rightarrow \text{Bank}\{\text{deposit} : a\}, \\ \text{withdraw} : \text{Client} \rightarrow \text{ATM}(\text{nat}). \\ \\ \text{ATM} \rightarrow \text{Bank} \left\{ \text{withdraw} : \text{ATM} \rightarrow \text{Client} \left\{ \begin{array}{l} \text{dispense} : a, \\ \text{overdraft} : a \end{array} \right\} \right\}, \\ \\ \text{balance} : \text{ATM} \rightarrow \text{Client}(\text{nat}). \text{ATM} \rightarrow \text{Bank}\{\text{balance} : a\}, \\ \text{quit} : \text{ATM} \rightarrow \text{Bank}\{\text{quit} : \text{end}\}. \end{array} \right\}.$$