**Definition** (par). The parallel composition of two DPIs  $dp_1 = \langle F_1, R_1, I_1, \text{prov}_1, \text{req}_1 \rangle$  and  $dp_2 = \langle F_2, R_2, I_2, \text{prov}_2, \text{req}_2 \rangle$  is  $par(dp_1, dp_2) := \langle F_1 \times F_2, R_1 \times R_2, I_1 \times I_2, \text{prov}, \text{req} \rangle,$ 

prov :  $\langle i_1, i_2 \rangle \mapsto \langle \operatorname{prov}_1(i_1), \operatorname{prov}_2(i_2) \rangle$ , (0.1)

req :  $\langle i_1, i_2 \rangle \mapsto \langle \text{req}_1(i_1), \text{req}_2(i_2) \rangle$ .