*Ci* creates and sends the request to the *CS*

Communication denied

No

Yes

No

Yes

Evaluation of request authorization with a single PDP1 (Figure 8)

Evaluation of request authorization with two PDPs (Figure 9)

Is the request for direct user?

Verify signature (ECDSA)?

CS receives user’s request and evaluates it

AS receives user’s request and evaluates it

Access granted for patient-specific data

Access granted for patient (s)-specific data

Yes

Is the

direct user authorized?

Yes

Access denied (server’s repository)

No

No

Is the

indirect user

authorized?

Yes

Yes