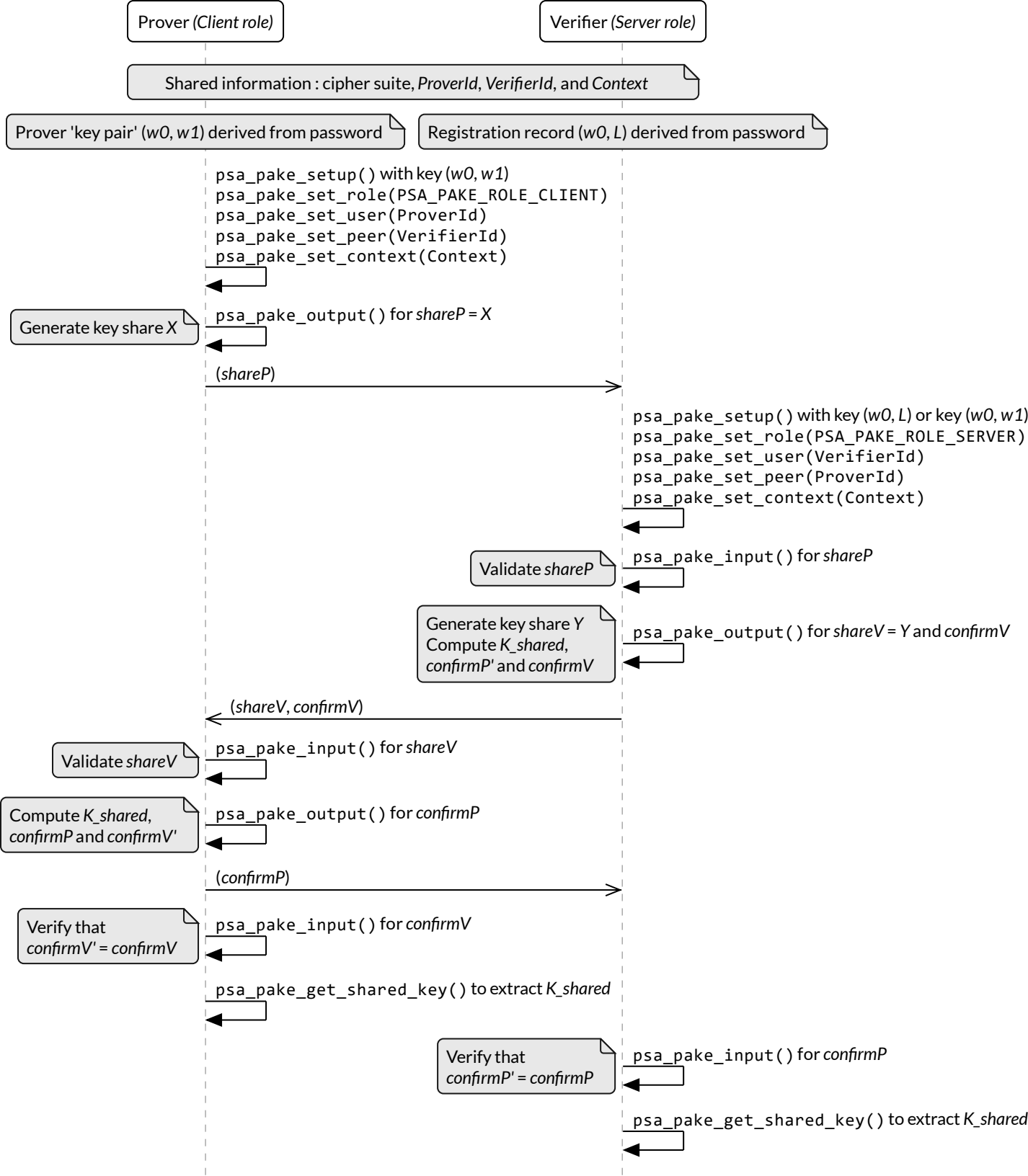
Prover (Client role)
Verifier (Server role)
Shared information : cipher suite, ProverId, VerifierId, and Context
Prover 'key pair' (w0, w1) derived from password
Registration record (w0, L) derived from password
psa_pake_setup() with key (w0, w1)
psa_pake_set_role(PSA_PAKE_ROLE_CLIENT)
psa_pake_set_user(ProverId)
psa_pake_set_peer(VerifierId)
psa_pake_set_context(Context)
Generate key share X
psa_pake_output() for shareP = X
(shareP)
psa_pake_setup() with key (w0, L) or key (w0, w1)
psa_pake_set_role(PSA_PAKE_ROLE_SERVER)
psa_pake_set_user(VerifierId)
psa_pake_set_peer(ProverId)
psa_pake_set_context(Context)
Validate shareP
psa_pake_input() for shareP
Generate key share Y
Compute K_shared,
confirmP' and confirmV
psa_pake_output() for shareV = Y and confirmV
(shareV, confirmV)
Validate shareV
psa_pake_input() for shareV
Compute K_shared,
confirmP and confirmV'
psa_pake_output() for confirmP
(confirmP)
Verify that
confirmV' = confirmV
psa_pake_input() for confirmV
psa_pake_get_shared_key() to extract K_shared
Verify that
confirmP' = confirmP
psa_pake_input() for confirmP
psa_pake_get_shared_key() to extract K_shared