1a.User→PM : SSL web site connection request

2a.PM : Check whether user is authenticated $3a.PM \leftrightarrow User$: set up SSL connection with the User

4a.PM↔Server : validate Target Certificate and set up SSL connection with the Target Server

5a.PM : is login page?

 $\begin{array}{ll} \text{6a.PM} {\leftrightarrow} \text{DB} & : \text{ does user have enrolled credentials?} \\ \text{7a.PM} {\rightarrow} \text{User} & : \text{ If not, send login page with empty fields} \\ \end{array}$

8a.User : enter credentials

9a. Browser : encCredwithPal= Enc(credentials)PAL
pub

 $10a. Browser {\rightarrow} PM \quad : encCredwith Pal$

 $11a.PM \leftrightarrow PAL$: Execute Credential Decryption Protocol

12a.PM : Insert original credentials

13a.PM→Server : Submit credentials 14a.Server→PM : User is authenticated

15a. PM \rightarrow DB : store enc
CredwithPal, sealedPAL
priv and nonce

 $16a.PM \rightarrow User$: User is authenticated