$1a.User{\rightarrow}PM \hspace{1.5cm} : SSL \ web \ site \ connection \ request$

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?

 $6a.PM \leftrightarrow DB$: does user have enrolled credentials?

7a.PM : If yes, create dummy credentials (DumCred)

8a.PM \rightarrow User : insert DumCred and send login page

9a. User \rightarrow PM : submit login page

 $10a.PM \leftrightarrow DB$: Retrieve user's encCredwithPAL, nonce and sealedPALpriv

11a.PM : Execute Credential Decryption Protocol

11b.PM : Insert original credentials

 $12a.PM \rightarrow Server$: submit credentials $13a.Server \rightarrow PM$: User is authenticated $14a.PM \rightarrow User$: User is authenticated