

CS 458 – A1

Name: Dweep Shah

U.W. ID: dm2shah

Student Number: 20511868

Trust me, I'm a social engineer...

- a. Confidentiality is violated in the following example since you are able to access Alice's data without authorization.
- b. Integrity is violated in the following example since you are able to change Alice's information, which means next time she retrieves her data it will be incorrect.
- c. Availability is violated in the following example since you are able to close Alice's account, so the next time the account will not be available for Alice.
- d. Confidentiality is violated in the following example since you are able to retrieve Alice's address without her consent.
- e. Reading all the conversation examples, it seems obvious that Sam was able to impersonate Alice without any authentication. In the last example he was also able to impersonate a person from retention in another department of the company.
- f. First, the call center can improve its authentication by asking some knowledge question about personal information and historical account data to verify their identity. Second, they could use a PIN to allow access to more critical data. Third, they could use the caller id as a verification tool to know common calling patterns and have a way to give general information without much hassle.

Something isn't right...

- a. I think I am experiencing interception in this case because some unauthorized party has gained access to my call without consent. A loss of the asset is not necessary for an interception threat.
- b. I think I am experiencing interruption in this case because my credit card became unusable, causing an interruption in my usage of the asset.
- c. I think I am experiencing interruption in this case because someone seems to have made the credit card customer service unusable using the personal phone number,
- d. I think I am experiencing fabrication in this case because new counterfeit records are being created on the system. These transactions have been added and they are not modifications of my previous transactions.

S.O.S.

- a. Update your public profile with false/decoy information. This may fool ToqToq (who else could it be?) into misallocating resources during their assault on you.
- b. Encrypt data sent through the voice line so it can not be intercepted, and lock the bank account for further use.
- c. Let the bank company know I have been compromised and to let me know when anybody tries to access the account. Also, the phone can be backtraced to detect when the phone is being wiretapped.
- d. Change my phone number and credit card number and make sure it is not available anywhere else, and not given to anybody else.