

Buy procedure executed by the ASD computer upon customer "buy" request:

1. start transaction with customer // display output
2. get customer details // keypad input
(name, address, social security number, etc.)
3. get details of desired certificate // keypad input
(issuing company, face value, duration of certificate, etc.)
4. get details of payment method // card reader input
(bank account number, PIN, etc.)
5. start transaction with ASD host // network output
6. send details of desired certificate to ASD host // network output
7. receive reply from ASD host // network input
8. if ASD host's reply indicates certificate not available
inform customer // display output
9. if ASD host's reply indicates certificate available
send payment information to ASD host // network output
receive reply from ASD host indicating // network input
what to print (including checksum)
type of paper to use,
and whether a scan is to be taken
print certificate on the appropriate paper // printer-scanner output
obtain scan if needed // printer-scanner input
send scan to ASD host // network output
dispense printed certificate to customer // printer-scanner output
10. print transaction status on local printer
11. end transaction with ASD host // network output
12. end transaction with customer // display output

Figure 16