THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A method for communicating data for use in a first computer, including:

in a first communication mode selected at the first computer, the first computer receiving data provided by one or more input devices associated with the first computer for use by the first computer in an application program executing in the first computer, the first computer displaying received data on one or more display devices associated with the first computer;

in a second communication mode selected at the first computer, a second computer receiving data provided by the one or more input devices via a switch device without the first computer processing or displaying the data provided by the one or more input devices for use by the second computer in another application program executing on the second computer;

the another application program executing in the second computer generating data in response to the data received by the second computer; and

the first computer receiving via the switch device the response data generated by the second computer and displaying received response data on the one or more display devices while the second communication mode is selected at the first computer.

2. The method of claim 1, wherein the first computer sends a first indication associated with the first communication mode being selected in response to a user activating the application program executing in the first computer; and

wherein the first computer sends a second indication associated with the second communication mode being selected in response to the user activating a second application program executing in the first computer.

3. The method of claim 1, wherein receiving the data at the second computer includes receiving the data at the second computer using a network interface of the first computer, and

wherein receiving the response data includes receiving from the network interface of the first computer a reply to the received data provided by the one or more input devices from the second computer.

4. The method of claim 1, wherein receiving the data provided by the one or more input devices at the second computer includes:

encrypting the data provided by the one or more input devices; and

receiving the encrypted data at the second computer.

5. The method of claim 3, wherein the received reply from the second computer is encrypted, and wherein receiving the reply at the first computer includes:

decrypting the received reply; and

transmitting the decrypted reply to the first computer.

6. A method of providing data communication over a communication network using an encryption device, the method including:

if (a) a secure communications mode is selected:

providing data from one or more input devices to the encryption device;

the encryption device encrypting the data;

providing the encrypted data to an interface associated with a first computer for transmission to a second computer;

sending the encrypted data to the second computer without the first computer processing or displaying the encrypted data or the data provided from the one or more input devices;

decrypting at the second computer the encrypted data and generating encrypted response data;

sending the encrypted response data generated by the second computer to the interface associated with the first computer;

the interface providing the encrypted response data to the encryption device;

the encryption device decrypting the encrypted response data and providing decrypted response data;

providing the decrypted response data to the first computer; and

the first computer performing an operation based on the decrypted response data;

else (b) providing data from the one or more input devices to the first computer without encryption for use by the first computer, wherein the first computer causes the data provided by the one or more input devices to be displayed on one or more display devices associated with the first computer, and in the secure communications mode the first computer causes the decrypted response data to be displayed by the one or more display devices.

7. The method according to claim 6, including authenticating a user in the secure communications mode.

8. The method according to claim 7, wherein the authenticating includes launching an application program which provides connection status between the encryption device and the first computer.

9. The method according to claim 7, wherein the authenticating includes scanning and detecting a finger print pattern associated with the user in response to a prompt generated by the application program which is displayed on a display device associated either with the encryption device or the first computer.

10. The method according to claim 6, wherein the decrypted response data includes display data which the second computer displays on a display device associated therewith.

11. The method according to claim 6, wherein the interface includes a universal serial bus (USB) interface and a network interface.

12. A method of providing data communication between a first computer and a second computer over a communication network using an encryption device coupled to the first computer, the method including:

if (a) a first application program associated with the first computer is active:

providing data from one or more input devices to the encryption device;

the encryption device encrypting the data;

providing the encrypted data to an interface associated with the first computer for transmission to the second computer;

sending the encrypted data to the second computer without the first computer processing or displaying the encrypted data or the data provided from the one or more input devices;

decrypting at the second computer the encrypted data and generating encrypted response data;

sending the encrypted response data generated by the second computer to the interface associated with the first computer;

the interface providing the encrypted response data to the encryption device;

the encryption device decrypting the encrypted response data; and

the encryption device providing the decrypted response data to the first application program operating in the encryption device or to the first computer for operation by the first application program operating in the first computer;

else (b) providing data from the one or more input devices to the first computer without encryption for use by the first computer in a program other than the first application program, wherein the first computer causes the data provided by the one or more input devices to be displayed on one or more display devices associated with the first computer, and when the first application program is active the first computer causes the decrypted response data to be displayed by the one or more display devices.

13. The method according to either claim 6 or 12, wherein the one or more input devices includes a keyboard device.

14. The method according to either claim 6 or 12, wherein the one or more input devices includes a mouse device.

15. The method according to either claim 6 or 12, wherein the one or more input devices includes a peripheral device.

16. The method according to claim 12, wherein the first application program resides on the first computer and communicates with the another application program residing on

the second computer, wherein the another application generates the response data and the first application program at the first computer displays the decrypted response data on the one or more display devices associated with the first computer.

17. The method according to claim 12, wherein the first application program resides on the encryption device and communicates with the another application program, wherein the another application generates the response data and the first application program at the encryption device displays the decrypted response data on the one or more display devices associated with the first computer or on a display device associated with the encryption device.

18. The method according to claim 12, wherein the communication network includes the Internet.

19. The method according to claim 12, wherein the first application program is active in the first computer when data provided by the first application program is in-focus on a display device associated with the first computer.

20. A system for providing secure data transmission over a communication network between a first computer and a second computer, the system including:

a switch device;

an encryption device;

a first computer configured to run a first application program and a second application program;

an interface associated with the first computer; and

a second computer;

the switch device being adapted to receive data from one or more input devices and being configurable to route the data to the encryption device when the switch is in a secure communications mode and to the first computer when the switch device is not in a secure communications mode;

the first computer being configured to receive the data from the switch device and use the data in the first application program when the switch device is not in the secure communications mode;

the encryption device being configured to receive the data from the switch device when the switch device is in the secure communications mode, and to encrypt received data;

the interface associated with the first computer being configured to receive the encrypted data when the switch is in the secure communications mode and to send the encrypted data over the communication network to the second computer without processing or display by the first computer of the encrypted data or the data received from the one or more input devices;

the second computer being configured to receive the encrypted data, automatically generating encrypted response data and send the encrypted response data to the interface;

the interface being configured to provide the encrypted response data generated by the second computer to the switch;

the switch being configured to provide the encrypted response data to the encryption device;

the encryption device being configured to decrypt the encrypted response data and provide decrypted response data to the switch device, the switch being configured to provide the decrypted response data to the first computer; and

the first computer being configured to use the decrypted response data in the second application program and provide display data to one or more display devices associated with the first computer, and the first computer being configured to display the data used in the first application program when the switch device is not in the secure communications on the one or more display devices associated with the first computer.

21. The system according to claim 20, wherein the interface includes a network interface.

22. The system according to claim 20, further including a biometric authentication device associated with the encryption device which cooperate to authenticate a user, the encryption device being configured to encrypt data from the switch device only after the user is authenticated.

23. The system according to claim 22, wherein the biometric authentication device includes a fingerprint scanner.

24. The system according to claim 20, wherein the switch device includes a USB controller for providing switching of data from the one or more input devices to the first computer and to the encryption device.

25. A method of providing security to an application program in communication with a server computer that receives input from an input device operating with a client computer and displays information on one or more display devices operating with the client computer, the method including:

if (a) a secure communications mode is selected:

encrypting data entered via the input device without providing the entered, unencrypted data to the client computer;

transmitting the encrypted data over a network to the server computer without the first computer processing or displaying the unencrypted or encrypted data, wherein the server computer includes a server application program;

decrypting the encrypted data at the server computer;

the server computer using the server application program and the decrypted data and generating response data;

transmitting the response data generated by the server computer to the client computer for use by a first application program; and

the client computer and the first application program causing the one or more display devices to display the response data;

else (b) providing the data entered via the input device to the client computer without encryption for use in an application other than the first application program, wherein the client computer causes the data entered by the input device operating with the client computer to be displayed on the one or more display devices.

26. The method according to claim 25, including encrypting the response data at the server computer and transmitting encrypted response data to the client computer, and decrypting at the client computer the encrypted response data.

27. The method according to claim 26, wherein encrypted response data transmitted to the client computer is decrypted independently of the client computer and such decrypted

response data is provided to the client computer for display on the one or more display devices.

28. The method according to claim 25, wherein the input device includes a keyboard.

29. The method according to claim 25, wherein the input device includes a pointing device.

30. A method for a client computer to interact with a plurality of application programs and to provide security to at least one application program of the plurality of application programs, the client computer communicating with a server computer and receiving input from an input device, the method including:

if the at least one application program includes a window in focus at the client computer on one or more display devices associated with the client computer:

encrypting data relating to the at least one application program entered via the input device without providing the entered, unencrypted data to the client computer;

transmitting the encrypted data over a network to the server computer without the first computer processing or displaying the unencrypted or encrypted data;

decrypting the encrypted data at the server computer;

the server computer operating on the decrypted data and generating data to be operated on by the client computer;

transmitting the data generated by the server computer to the client computer; and

the client computer operating on the generated data;

else providing data entered via the input device to the client computer without encryption for disposition by the client computer, wherein the first computer causes the data received from the input devices to be displayed on one or more display devices associated with the first computer, and when the window is in focus the first computer causes the decrypted data to be displayed by the one or more display devices.

31. The method of claim 30, including encrypting data relating to the at least one application program which includes the in-focus window in a device coupled to and between the input device and the client computer.