WHAT IS CLAIMED IS:

1. A storage system comprising:

a memory resource component having an off-state and an on-state, the memory resource component being structured to persistently store a sensitive dataset when in the off-state, and to enable read and/or write access only when in the on-state;

a control sub-system coupled to the memory resource component, the control sub-system providing an electrical signal to the memory resource component in response to an external trigger signal, the electrical signal causing the memory resource component to switch from the off-state into the on-state for a duration that is based on the external trigger signal; and

wherein the control sub-system enables at least one of a read or write operation while the memory resource is in the on-state.

2. The storage system of claim 1, wherein the control sub-system provides the electrical signal to the memory resource component for the duration that coincides with at least one of (i) a length of the external trigger signal, (ii) a predetermined duration, or (iii) an occurrence of a predetermined start and ending event.

3. The storage system of claim 1, wherein dedicated memory resource component is dedicated for at least one of a user or an account number.

4. The storage system of claim 1, wherein the memory resource component includes a collection of memory cells, each memory cell having a physical characteristic of persistently maintaining an assigned bit state without electrical input.

5. The storage system of claim 1, wherein the control sub-system includes a telephonic receiver to receive an incoming telephone call on a phone number that is associated with the memory resource component, and wherein the external trigger signal corresponds to the incoming telephone call being received by the telephonic receiver.

6. The storage system of claim 5, wherein the control sub-system causes the memory resource component to remain in an activated state based at least in part on a duration of the incoming telephone call.

7. The storage system of claim 5, wherein the control sub-system implements a security policy using information received with the incoming telephone call, and wherein the control sub-system provides the electrical signal to the memory resource in response to the control sub-system implementing the security policy to authorize the incoming telephone call.

8. The storage system of claim 7, wherein the control sub-system implements the security policy by authenticating a source of the incoming telephone call.

9. The storage system of claim 7, wherein the information received with the incoming telephone call includes at least one of credential input provided by a caller, metadata provided with the incoming telephone call, or voice information of the caller.

10. A storage system comprising:

an array of memory resource components, the array including a plurality of ports, and each memory resource component of the array being deactivated so as to be inaccessible over any Internet Protocol network until the memory resource component is temporarily activated

for a given interval of time, wherein each memory resource component of the array is linked to a corresponding port of the plurality of ports, and each memory resource component is configured to persistently store a set of user data for a corresponding user;

a control sub-system comprising a telephony interface and a switching component,

wherein the telephony interface is configured to receive telephone calls for a plurality of phone numbers, each of the plurality of phone numbers being associated with one of the memory resource components of the array;

wherein after receiving an incoming telephone call to one of the plurality of phone numbers, the control sub-system triggers the switching component to activate one of the memory resource components of the array that is associated with the respective phone number of the incoming telephone call, the activated memory resource component being accessible over the Internet Protocol network.

11. The storage system of claim 10, wherein the switching component enables one of the memory resource components of the array that is associated with the respective phone number of the incoming telephone call to be accessible over the Internet Protocol network by connecting the memory resource component of the incoming telephone call with a network communication resource that is accessible over the Internet.

12. The storage system of claim 10, wherein the switching component enables one of the memory resource components of the array that is associated with the respective phone number of the incoming telephone call to be accessible over the Internet Protocol network by connecting the memory resource component of the incoming telephone call with a power source to power the memory

resource component while the memory resource component is accessible over the Internet.

13. The storage system of claim 10, wherein the control sub-system is configured to authenticate a caller of each incoming telephone call before triggering the switching component.

14. The storage system of claim 10, wherein the given interval of time is predetermined.

15. The storage system of claim 10, wherein the given interval of time is based on a duration of the corresponding incoming telephone call.

16. The storage system of claim 10, wherein the given interval of time is based on a duration between the corresponding incoming telephone call to one of the phone numbers of the plurality of phone numbers and a second incoming telephone call to the one of the phone numbers of the plurality of phone numbers.

17. The storage system of claim 10, wherein the switching component activates one of the memory resource components of the array by closing an airgap between at least one of a network communication resource or power resource and a port of the memory resource component that is associated with the phone number of the incoming telephone call.

18. A method for operating a storage system or device, the method comprising:

receiving an incoming telephone call;

selecting a memory resource component from an array of memory components, wherein each non-selected memory resource component of the array is inaccessible over the Internet;

wherein selecting the memory resource component is based at least in part incoming telephone call;

providing a trigger signal to activate the memory resource component, wherein when the memory resource component is activated, the memory resource is accessible over a data network that includes the Internet.

19. The method of claim 18, further comprising:

authenticating a caller of the incoming telephone call; and

providing access to the memory resource for a duration upon authenticating the caller.

20. The method of claim 19, wherein authenticating the caller includes using caller information provided with the incoming telephone call to authenticate the caller.

21. A method for operating a computing device, the method being implemented by one or more processors and comprising:

(a) making a call connection with a remote site using a phone number;

(b) implementing an authentication procedure in connection with the call connection; and

(c) after the call connection is made, enabling the computing device to perform a retrieval operation to access a network location using a network address, for a duration that is determined based at least in part on the call connection.

22. The method of claim 21, wherein (a) through (c) are performed by the computing device executing an application.

23. The method of claim 22, wherein (a) through (c) are triggered and performed automatically in response to a user action.

24. The method of claim 22, wherein (a) includes acquiring the phone number in response to a user interacting with a call feature of the application, the call feature enabling the user to initiate the incoming telephone call connection without specifying the phone number.

25. The method of claim 22, wherein (c) includes acquiring the address from the remote site after the call connection is made.

26. The method of claim 22, wherein (c) includes acquiring and using the network address without revealing the network address on the computing device.

27. The method of claim 22, wherein (c) includes using a browser process that is implemented through the application executing on the computing device.

28. The method of claim 21, further comprising accessing a memory resource provided at the network location to retrieve a data set for enabling use of a crypto-currency.

29. The method of claim 21, wherein (b) includes using a credential assigned to a group or enterprise.

30. The method of claim 21, further comprising initiating a timer to initiate or set the duration, based on the call connection being made or terminated.

What is claimed is:

1. A storage system comprising:

a memory resource component structured to persistently store a sensitive dataset;

a controller including a telephonic receiver and being coupled to the memory resource component, the controller being structured to physically switch the memory resource component between an unconnected state and a connected state, wherein in the unconnected state, the memory resource component is not physically connected to a data network by way of an air gap to prevent unauthorized access to the memory resource component, and wherein in the connected state, the memory resource component is physically connected to the data network by closing the air gap;

wherein in response to receiving a telephone call via the telephonic receiver on a phone number that is associated with the memory resource component, the controller implements an authentication process to (i) physically switch the memory resource component from the unconnected state to the connected state by mechanically closing the air gap, and (ii) maintain the memory resource component in the connected state for a given duration; and

wherein the controller enables at least one of a read or write operation while the memory resource component is in the connected state for the given duration.

2. The storage system of claim 1, wherein the given duration coincides with at least one of (i) a length of the telephone call, (ii) a predetermined duration, or (iii) an occurrence of a predetermined start and ending event.

3. The storage system of claim 1, wherein memory resource component is

dedicated for at least one of a user or an account number.

4. The storage system of claim 1, wherein the memory resource component includes a collection of memory cells, each memory cell having a physical characteristic of persistently maintaining an assigned bit state without electrical input.

5. The storage system of claim 1, wherein the controller causes the memory resource component to remain in the connected state based at least in part on a length of the telephone call.

6. The storage system of claim 1, wherein the controller implements the authentication process by implementing a security policy using information received with the telephone call, and wherein the controller provides an electrical input to the memory resource component in response to the controller implementing the security policy to authorize the telephone call.

7. The storage system of claim 6, wherein the controller implements the security policy by authenticating a source of the telephone call.

8. The storage system of claim 6, wherein the information received with the telephone call includes credential input provided by a caller.

9. The storage system of claim 1, wherein the controller physically switches the memory resource component from the unconnected state to the connected state in response to receiving input data corresponding to a personal identification number (PIN) via the telephone call.

10. The storage system of claim 1, wherein the telephonic receiver comprises a digital or analog telephone interface.

11. A method for operating a storage system, the method comprising:

receiving, via a telephonic receiver of the storage system, an incoming telephone call from a caller;

selecting a memory resource component from an array of memory components based at least in part on the incoming telephone call; and

in response to receiving the incoming telephone call, implementing an authentication process to physically switch the memory resource component from an unconnected state to a connected state, wherein in the unconnected state, the memory resource component is not physically connected to a data network by way of an air gap to prevent unauthorized access to the memory resource component, and wherein in the connected state, the memory resource component is physically connected to the data network by mechanically closing the air gap;

wherein when the memory resource component is physically switched to the connected state based at least in part on receiving the incoming telephone call, the memory resource component is accessible over the data network to the caller.

12. The method of claim 11, further comprising:

authenticating the caller of the incoming telephone call; and

upon authenticating the caller, providing access to the memory resource component for a given duration.

13. The method of claim 12, wherein authenticating the caller includes using caller information provided with the incoming telephone call to authenticate the

caller.

14. The method of claim 11, further comprising:

maintaining the memory resource component in the connected state for a duration that is based on a length of the incoming telephone call.

15. The method of claim 11, further comprising:

maintaining the memory resource component in the connected state for a duration that is predetermined.

16. The method of claim 11, further comprising:

maintaining the memory resource component in the connected state for a duration that is based on a predetermined start and ending event.

17. The method of claim 11, wherein physically switching the memory resource component from the unconnected state to the connected state is performed in response to receiving input data corresponding to a personal identification number (PIN) via the telephone call.

18. The method of claim 11, wherein the incoming telephone call is received via a digital or analog telephone interface of the telephonic receiver.