

It can be demonstrated and easily seen that DIVA provides continuous authentication, inherent intrusion detection and automatic denial of network access without human intervention.

How do clients (and you) see DIVA working?

Do the following test [No other technology has this capacity.]

Send a file from the Sender's SFI account to another SFI user.

Take the Senders key to the receiver's computer.

The receiver logs into their SFI account, as they would to retrieve the file. They log into SFI.

Remove the receiver's key now and put the Sender's key into the Receiver's computer while the receiver is still logged onto SFI.

Now try to do anything. Change screens.

A DIVA out of sync error happens.



Error: Out of sync (positive range)[expected: 51502531 got: 18894030 delta: 32608501]

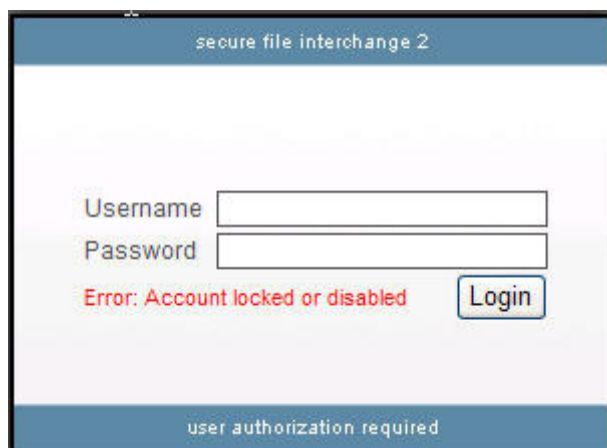
The account has been frozen without human intervention.

*[The intrusion has been detected and the user frozen from the system. A public key system would likely not have detected the intrusion. If it did, the receiver would already be trying to work with some "Trusted Third Party" trying to un-freeze the account.]*

Log out.

Try to log in again.

Until the system administrator rectifies the situation, this account can no longer be accessed.



It immediately gave an error and LOCKed up the receiver's account because the DIVA setting on the sender's physical key and the DIVA setting on the receiver's physical key are different. These DIVA settings continuously get updated with use. The intruder cannot pass the continuous authentication step. DIVA has detected intrusion.

*[This is similar to the disabling of stolen credit cards. You cannot make an exact copy of your USB SFI key onto another USB drive and use it. Try it. This would be a similar process to preventing Identity and Credit Card Theft].*

Diva has automatically revoked network access without human intervention. PKI systems cannot do this.

In a work environment, the locked out user would go to the System Administrator. In a commercial environment the client would be calling the credit card company to notify them of the breach attempt and to have the card reactivated. The DIVA settings can be refreshed to allow access once again to the secure network without having to replace a card or USB key.

To reset the account after someone has been Locked out of network access is simple and takes only 1 check box to reactivate the person.

The System Administrator has been contacted and sorted out the situation. The locked account needs to be unlocked.

The System Administrator logs into Secure File Interchange.

Go to Users

Go to Edit (on the locked out person's account)

Change the pull down menu at the arrow from being Disabled to being Active.

Click the Save button at the bottom of the screen red arrow.

The account is active once again.

**Users** | **Classes** | **Groups** | **Keys** | **Logs** | **Tools** | **E-Mail** | **Links**

### Edit User

User Information	User Key
Username: Abrisson	Key Pair: 09E19A40A1B339DD.key
First Name: Andre	
Last Name: Brisson	
e-Mail: abrisson@wnlabs.com	
Description: friend	
State: Disabled	

Classification	Administrative Access
Class: Administrators	<input checked="" type="checkbox"/> Users
Theme: Default	<input checked="" type="checkbox"/> Groups
Maximum Storage: 0 bytes	<input checked="" type="checkbox"/> Classifications
Administrator: <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Keys
Diva Required: <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Logs
Items Per Inbox: 10   GroupBox: 10	<input checked="" type="checkbox"/> Tools
Receive E-Mail from: <input checked="" type="checkbox"/> Admins <input checked="" type="checkbox"/> Users <input checked="" type="checkbox"/> Groups	<input checked="" type="checkbox"/> E-Mail
Save Sent Copy: <input type="checkbox"/>	<input checked="" type="checkbox"/> Links

**Save** | **Cancel**

The system administrator can gather information about the hacking or network intrusion attempt by reviewing the system logs.

Users Classes Groups Keys Logs Tools E-Mail Links

### Manage Logs

From: 2007 8 24 To: 2007 8 24

Log Type: All None None Current

Username:

Submit

Date & Time	User	Type	Description
2007-8-23 10:29	Admin	Login	Source: 66.51.130.38 Platform: WinXP IE 7.0
2007-8-23 10:28	Abrisson	DivaSerialIncorrect	Incorrect DIVA Serial -
2007-8-23 10:28	Abrisson	LoginAttempt	Source: 66.51.130.38 Platform: WinXP IE 7.0(token)
2007-8-23 10:28	Abrisson	DivaSerialIncorrect	Incorrect DIVA Serial -
2007-8-23 10:28	Abrisson	LoginAttempt	Source: 66.51.130.38 Platform: WinXP IE 7.0(token)
2007-8-23 10:28	Sboren	LoginAttempt	Source: 216.19.178.138 Platform: WinXP IE 7.0(password)
2007-8-23 10:27	Sboren	LoginAttempt	Source: 216.19.178.138 Platform: WinXP IE 7.0(token)
2007-8-23 10:27	Admin	LoginAttempt	Source: 66.51.130.38 Platform: WinXP IE 7.0(token)
2007-8-23 10:27	Abrisson	DivaSerialIncorrect	Incorrect DIVA Serial -
2007-8-23 10:27	Abrisson	LoginAttempt	Source: 66.51.130.38 Platform: WinXP IE 7.0(token)
2007-8-23 10:27	Admin	Logout	Source: 66.51.130.38 Platform: WinXP IE 7.0
2007-8-23 10:27	Admin	DivaTokenMissing	Missing DIVA Token
2007-8-23 10:25	Admin	Login	Source: 66.51.130.38 Platform: WinXP IE 7.0
2007-8-23 10:23	Admin	Login	Source: 66.51.130.38 Platform: WinXP IE 7.0
2007-8-23 10:23	Abrisson	Logout	Source: 66.51.130.38 Platform: WinXP IE 7.0
2007-8-23 10:23	Abrisson	ContactAccepted	Contact 1: Sboren (Steve Boren) Contact 2: girish (Girish Bansal)
2007-8-23 10:22	Abrisson	ContactAccepted	Contact 1: Sboren (Steve Boren) Contact 2: fabien (Fabien Dormoy)
2007-8-23 10:22	Abrisson	ContactAccepted	Contact 1: Sboren (Steve Boren) Contact 2: alnoor (alnoor Sheriff)

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