



Encrypt. Share. Protect.



Galaxkey CLI

Galaxkey Command Line Interface

Version 1.0

01/05/2016

Table of Contents

Section 1.	Copyright.....	3
Section 2.	Executive Summary.....	4
2.1.	About Galaxkey	4
Section 3.	Galaxkey Command Line Interface	5
3.1.	GalaxkeyCL.exe.....	5
Section 4.	Command Line Reference.....	6
4.1.	Galaxkey Command Line operations	6

Section 1. Copyright

© Copyright Galaxkey® Limited. All rights reserved. Galaxkey Limited, the Galaxkey logo, Galaxkey are registered trademarks of Galaxkey Limited in the Europe and other countries. All other Trademarks, service marks, registered marks, or registered service marks are the property of their respective owners. Galaxkey Limited assumes no responsibility for any inaccuracies in this document. Galaxkey Limited reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

Section 2. Executive Summary

2.1.About Galaxkey

Galaxkey provides an identity based email content security solution. When a user registers with Galaxkey, a security identity is created which is associated with the user's email address. This identity is managed and stored by Galaxkey in the cloud and is accessible to any Galaxkey enabled client on proper authorisation and authentication. The identities on the platform are completely secured with user provided unique credentials; ensuring secure user access. The administrators of corporate users have full control of their corporate user's identities and data.

With advances of networking and communication technologies, e-mail has established itself as a formal communication medium. E-mail as a medium has gone past the mere communication tool and is being used for communicating confidential information including official documents ranging from notices, invoices and confirmations to name a few. These developments also raise issues surrounding email security and privacy of data. E-mail is highly susceptible to various forms of attack, starting at the e-mail source point, onto the corporate server, including the stages in between, to the recipient's server and finally the destination point. The risk of attack increases multi-fold at each point. There are various solutions offered to counteract these vulnerabilities at various points. These solutions offer a partial solution. However, a robust solution that is able to address all the vulnerabilities and still maintain ultimate control with the end user, the sender and receiver is desirable. This is the solution Galaxkey provides.

Galaxkey offers security solutions using state of the art technology to secure e-mail end-to-end and not only in transit but at the source and at the destination while maintaining control with the end user through proper authentication.

Section 3. Galaxkey Command Line Interface

Galaxkey exposes its core functionality of encrypting and decrypting a file using Galaxkey platform in form of a Windows console application that can be used as Galaxkey command line interface (Galaxkey CLI). The command line interface can be used to integrate Galaxkey's core functionality with any system that may want to use it in its data processing. The interface hides all the details of key generation, management and distribution from the user and gives simple interface to just encrypt and decrypt given file.

3.1. GalaxkeyCL.exe

Following are the details of the Galaxkey Command Line interface

Attribute	Details
Executable Name	GalaxkeyCL.exe
Development Platform	Windows .NET
Software Requirements	Microsoft Windows with .NET Framework 4.0, GalaxkeyAPI.dll in the same folder as exe.
64 bit / 32 bit	Dll is compiled for "x86" settings.
Connectivity Requirements	Using SOAP Over 443 to "*.galaxkey.com". In case of Hybrid setup, the connectivity to hybrid appliance endpoints over 443 is needed.
Logs	Logs are generated in file named "galaxkey_api.log" by the dll in "c:\Users\<loggedin user>\appData\Roaming\Galaxkey\Logs" folder.

Section 4. Command Line Reference

GalaxkeyCL.exe handles 2 command line operations namely “-e” for encryption and “-d” for decryption.

4.1. Galaxkey Command Line operations

1. **Encrypt:** GalaxkeyCL.exe can be used to encrypt a given file using command line interface. Following is the syntax for encrypting a file using GalaxkeyCL.exe

```
GalaxkeyCL.exe -e <Owner email id> <email list> <source path>  
<destination file>
```

Parameter	Details
Owner email id	Identity (email address) of the owner of the Galaxkey secured document.
emailList	Comma separated email address list of all the identities for which the document should be encrypted.
source path	Fully qualified path of the source document to be encrypted.
destination file (optional)	Fully qualified path of the destination file. If not given, file will be encrypted in the same folder as source file with added extension of “.gxk”.

In case of error, the error is shown in the console. Please check the logs in “galaxkey_api.log” for further details of any failure.

Example :

```
GalaxkeyCL.exe -e "owner@domain.com" "a@galaxkey.com,b@galaxkey.com"  
"c:\temp\gcl\test.doc" "c:\temp\gcl\test.doc.gxk"
```

2. **Decrypt:** GalaxkeyCL can be used to decrypt a given Galaxkey secured file using provided identity credentials. Following is the syntax for decrypting a file.

GalaxkeyCL.exe -d <email id> <password> <gxk path> <destination file> <notify "True" | "false">

Parameter	Details
email id	Identity (email address) to be used to decrypt the input Galaxkey secured file.
password	Password of the identity to be used for decrypting given Galaxkey secured document.
gxkpath	Fully qualified path of the source document to be decrypted.
destination file	Fully qualified path of the destination file. If this is blank, decrypted file will be created in the same folder as source file. If source gxk is email and this parameter is blank then <gxkname>.eml will be used as destination filename.
notify	True if the user wants to notify the owner of the document about opening the Galaxkey secured file. False if user does not want to. If it is set to false and owner of document has requested notification, the file will not be decrypted and the "LastError" will be set to "NOTIFICATION REQUESTED"

In case of error, the error is shown in the console. Please check the logs in "galaxkey_api.log" for further details of any failure.

Example :

```
C:\Temp\GCL>GalaxkeyCL.exe -d "demo1@galaxkey.com" "pwd" "c:\temp\GCL\Test.
gxk" "c:\temp\GCL\test.txt" "true"
```