

How to change your encryption algorithm in ADE.

UniVerse 10.2 and above offers Automatic Data Encryption (ADE). In this document you will see how to decrypt a data file that has two attributes defined as encrypted and encrypt those same attributes using a different algorithm. This will be demonstrated using the command line functions and UniAdmin.

----- Command line method -----

SETUP

This will use the CUSTOMER file in the HS.SALES account to demonstrate the steps.

For simplicity the following are given:

Encryption Key = neddy
Key Password = password
Initial Algorithm = aes192
New Algorithm = aes256
The encryption key 'neddy' has already been created by this point.
Encrypt the LNAME and FNAME fields in the CUSTOMER file using the 'aes192' algorithm.

```
>ENCRYPT.FILE CUSTOMER LNAME,aes192,neddy,password  
ENCRYPT.FILE successful.
```

```
>ENCRYPT.FILE CUSTOMER FNAME,aes192,neddy,password  
ENCRYPT.FILE successful.
```

NOTE: This sample was performed using UniVerse 10.2.10. At this release, your encryption keys will automatically be activated for this session. There are some releases where this is not the case. For this demonstration you can run LIST.ENCRYPTION.KEY to verify this. You can also run DEACTIVATE.ENCRYPTION.KEY and then list the data and the data will display in 'cipher text' (unreadable).

CUSTOMER..	Last Name.....	First Name..
2	q/LcCCQYZhnjP7jH ZA1C/+Jel0MMRpLT ACtRIuoXBqtenZM1 SH86K7E==	9GQsVmxPWswZ TwMUjHgMN1/n o4AMBpLTAxH2 NjzsQSuWniBA pUYu3Hk==

Decrypt the LNAME and FNAME fields.

```
>DECRYPT.FILE CUSTOMER LNAME,neddy,password  
DECRYPT.FILE successful.
```

```
DECRYPT.FILE CUSTOMER FNAME,neddy,password  
>DECRYPT.FILE successful.
```

Verify by listing the data.

CUSTOMER..	Last Name.....	First Name..
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Encrypt the LNAME and FNAME fields in the CUSTOMER file using the 'aes256' algorithm

```
>ENCRYPT.FILE CUSTOMER LNAME,aes256,neddy,password  
ENCRYPT.FILE successful.
```

```
>ENCRYPT.FILE CUSTOMER FNAME,aes256,neddy,password  
ENCRYPT.FILE successful.
```

----- **UniAdmin method** -----

The attachment below describes this method.