

**Cleo™ CleoEDIP V9.0
for AVAYA CONVERSANT® V8/R9
Host Interface Extensions
Domestic Distribution
Quick Start Guide**

This Quick Start Guide contains information about installing the Avaya Conversant V8/R9 version of the Cleo CleoEDIP V9.0 Host Interface Extensions Package.

The Extensions include Licensed support for the following:

- Model 2-5 Terminals
- Password Encryption
- National Language Support(NLS)

Important!

Read this document before installing and using the Cleo software. If you have questions about installing and using this product, contact Cleo Communications Technical Support between the hours of 8:30 A.M. and 5:00 P.M. (EST/EDT) at: 1.866.444.2536 or supportmi@cleo.com.

CL|E|O

Copyright © 2006 Cleo Communications

September 2006

Cleo Communications reserves the right to, without notice, modify or revise all or part of this document and/or change product features or specifications and shall not be responsible for any loss, cost or damage, including consequential damage, caused by reliance on these materials.

This document may not be reproduced, stored in a retrieval system or transmitted, in whole or in part, in any form or by any means (electronic, mechanical, photocopied or otherwise) without the prior written permission of Cleo Communications.

GOVERNMENT RESTRICTED RIGHTS

Use, duplication or disclosure by the Government is subject to restrictions as set forth in subparagraph (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013.

Use, reproduction or disclosure is subject to 52.227-19 (a) through (d) and restrictions set forth in the accompanying end user agreement.

GOVERNMENT LIMITED RIGHTS

Limited rights shall be effective indefinitely and are not subject to expiration as set forth in paragraph (3) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013.

Copyright © 2005 Cleo Communications – All rights reserved.

Document No: 6512051

Version: 1.0

Trademark Acknowledgments

Cleo Communications has made every effort to accurately acknowledge all trademarks that appear in this document. Cleo Communications, however, cannot attest to the accuracy of this information.

Cleo™ is a trademark of Cleo Communications

AVAYA CONVERSANT® V8/R9

CONVERSANT® System is a registered trademark of Avaya Inc.

UNIX® is a registered trademark licensed through X/Open Company Limited.

TABLE OF CONTENTS

Cleo CleoEDIP Installation	5
Installing Cleo CleoEDIP from CD.....	7
Licensing for Model 2-5 Feature.....	9
Enabling and Using Model 2-5 Feature	11
Licensing NLS(National Language Support) Feature	13
Enabling NLS(National Language Support) Feature	15
Licensing Encrypted Password Feature.....	16
Enabling Encrypted Password Feature.....	19
Cleo CleoEDIP Removal.....	20
APPENDIX A.	21

Cleo CleoEDIP Installation

Software Prerequisites:

- Unixware 7.1.1
- Avaya CONVERSANT V8 or R9
- IVR Designer or Script Builder.
- Cleo TN3270 V6.0.7.14 or Cleo SNA V6.0.7.14
- Cleo synchost V8.5
- Cleo CleoTDIP V9.1, Cleotndip V8.9, Cleosndip V8.9, Ctnhdip V8.8, Csnahdip V8.8, vstndip 8.5, vssnadip 8.5, vstndip 8.7, or vssnadip 8.7.

Before the CleoEDIP Extended features package can be installed, the following software must be installed and configured on the Avaya CONVERSANT V8 or R9 system having a connection to a 3270-mainframe host, using TN3270 protocol or SNA protocol.

Cleo Host Interface for TCP/IP or Cleo Host Interface for SNA

Cleo Synchronous Host Interface – synchost v8.5 Package

Cleo Host Dip Package CleoTDIP – cleo CleoTDIP V9.1 Package

Cleo TN3270 Software Package cleotn – cleo TN3270(E) V6.0.7.14

OR

Cleo Host Dip Package CleoSDIP – cleo CleoSDIP V9.1 Package

Cleo SNA Software Package cleosna – cleo SNA V6.0.7.14

Note: Before installing Cleo CleoEDIP, please enter the following command:

```
# stop_vs [wait for this step to complete; it will take several minutes]
```

Installing Cleo CleoEDIP from CD

1. Login as *root*.
2. Create a mount-point for the CD if one does not already exist.(/mnt is used as the mount-point in these instructions, but any empty directory can be used).

```
# mkdir /mnt
```

3. Insert the Cleo CleoEDIP V9.0 Host Interface Extensions, for Avaya CONVERSANT® V8/R9 Domestic Distribution CD into the CD ROM drive.

4. Mount the CD by entering the following command:

```
# /sbin/mount -F cdfs -r /dev/cdrom/cdrom1 /mnt
```

5. Start the Installation of the CleoEDIP Package

```
# pkgadd -d /mnt/CleoEDIP
```

6. Enter the following command:

```
# /sbin/umount /mnt
```

7. Remove the CD from the drive. Store the CD in a safe place. It will be needed should you ever re-install the software.
8. When the installation of the CleoEDIP package completes, you will now be able to acquire licenses for and use any combination of the following Host Interface Extensions;
 - Support for Model 2-5 Terminals. Without this Extension, only Model 2 terminals are supported.
 - Storage of Host Loginids/Passwords in Encrypted Files. Without this

Extension, Loginids and Passwords are stored in Clear Text Files on the IVR system.

- Support for Natural Languages(NLS) used by the Host. Without this Extension, only US English Host data is supported.

Licensing for Model 2-5 Feature

1. In order to use the Model 2-5 Feature, you will need to contact Cleo Communications to Obtain a License Key. You will need to provide Cleo with the Name of your Avaya System and the Cleo serial number of your system.

Obtain the Avaya System Name by entering the following command:

```
# uname -n
```

The system Name will be output.

Obtain the Cleo Serial Number of your Avaya System by entering the following command:

```
# cleoserial -r
```

The Cleo Serial Number will be displayed. If your system does not have a Cleo Serial Number, please contact Cleo Communications Technical Support to obtain a Cleo Serial Number. Then enter the serial number on your system, by entering the following command:

```
# cleoserial -w nnnnnn
```

Where: nnnnnn is the Cleo Serial Number.

2. To license the Model 2-5 Feature manually, using the Cleo Serial Number and Cleo License Key, proceed to step 3.

If you chose to License the Model 2-5 Feature using files placed on the IVR system, then please do the following:

Make sure the Cleo Serial Number has been entered on the system.

Place the Cleo License Key file, that you received electronically

from Cleo, in a text file on the IVR system.

Then enter the following command, and proceed to the next section:

```
# cleomodlic -f FILE
```

Where: `FILE` is the full path to the Cleo Model 2-5 License Key File.

3. To license the Model 2-5 Feature manually, enter the following command:

```
# cleomodlic
```

You will be prompted as follows. Please enter the correct information for both the serial number and License key prompts.

License File has not been verified:

Enter the serial number:

Enter the license key:

The Cleo MOD2-5 Extensions Support Software is Properly Licensed

NOTE: If the serial number or license key are not input correctly, or are wrong, you will be prompted again, as shown above. You may be prompted up to 10 times, before the program will stop.

Enabling and Using Model 2-5 Feature

1. The Host DIP needs to be configured in order to enable the use of the Model 2-5 Feature.
2. Please enter the following command to Enable the Model 2-5 Feature:

```
# hdipconfig -M ON
```

NOTE: See Appendix A. for all the *hdipconfig* program options. If the need arises to disable the Model 2-5 Feature, please enter the following command:

```
# hdipconfig -M OFF
```

3. In order for the Host DIP to use the newly configured option, it is necessary to restart the Host Interface, by entering the following commands:

```
# stop_hi
```

```
# start_hi
```

4. You can now use the Model 2-5 Feature. You will need to assign a model type to each Host session. Model 2 is the default Model type. The following command can be used to change the model type of an individual or range of Host sessions:

```
# hmodconf -s [ a | a-b ] -m [ 2 | 3 | 4 | 5 ]
```

Where a = sessions number

a-b = range of session numbers

m = model type: 2, 3, 4 or 5

For example: `hmodconf -s 5 -m 3`

5. If you are using IVR Designer to develop your Host Application, your Host Application will now work correctly with Host Application's using MODEL types 2, 3, 4 or 5 screens.
6. Since the Script Builder program does not allow use of any MODEL type other than 2, MODEL type 3, 4 or 5 screens can not be defined using Script Builder. In order to define MODEL type 3, 4 or 5 screens and fields, a new command is available.

define_scr APPLICATION MODEL

Where **APPLICATION** = Script Builder Application

MODEL = MODEL TYPE 2, 3, 4 or 5

Please see the “**Cleo define_scr User's Guide**” for a complete description using the *define_scr* command.

When the *define_scr* command is used, the following 3 files in the /att/trans/sb/applname directory are modified:

/vs/trans/sb/applname /host_control

/vs/trans/sb/applname/symbols

/vs/trans/sb/applname/define_scr

Licensing NLS(National Language Support) Feature

1. In order to use the National Language Feature, you will need to contact Cleo Communications to Obtain a License Key. You will need to provide Cleo with the Name of your Avaya System and the Cleo serial number of your system.

Obtain the Avaya System Name by entering the following command:

```
# uname -n
```

The system Name will be output.

Obtain the Cleo Serial Number of your Avaya System by entering the following command:

```
# cleoserial -r
```

The Cleo Serial Number will be displayed. If your system does not have a Cleo Serial Number, please contact Cleo Communications Technical Support to obtain a Cleo Serial Number. Then enter the serial number on your system, by entering the following command:

```
# cleoserial -w nnnnnn
```

Where: nnnnnn is the Cleo Serial Number.

2. To License the NLS Feature manually using the Cleo Serial Number and Cleo License Key, proceed to step 3.

If you chose to License the NLS Feature using files placed on the IVR system, then please do the following:

Make sure the Cleo Serial Number has been entered on the system.

Place the Cleo License Key file, that you received electronically

from Cleo, in a text file on the IVR system.

Then enter the following command, and proceed to the next section:

```
# cleonlslic -f FILE
```

Where: FILE is the full path to the Cleo NLS License Key File.

3. To License the NLS Feature manually, enter the following command:

```
# cleonlslic
```

You will be prompted as follows. Please enter the correct information for both the serial number and License key prompts.

License File has not been verified:

Enter the serial number:

Enter the license key:

The Cleo NLS(National Language Support) Software is Properly Licensed

NOTE: If the serial number or license key are not input correctly, or are wrong, you will be prompted again, as shown above. You may be prompted up to 10 times, before the program will stop.

Enabling NLS(National Language Support) Feature

1. The Host DIP needs to be configured in order to enable the use of the NLS Feature.
2. Please enter the following command to enable NLS.

```
# hdipconfig -T ON [TRANSTABLE]
```

where: TRANSTABLE is an EBCDIC/ASCII Translation table to use for your National Language Support.

NOTE: See Appendix A. for all the *hdipconfig* program options.

3. In order for the Host DIP to use the newly configured option, it is necessary to restart the Host Interface, by entering the following commands:

```
# stop_hi
```

```
# start_hi
```

4. You can now use the NLS(National Language Support) Feature.
5. If the need arises to DISABLE the NLS Feature, please enter the following command:

```
# hdipconfig -T OFF
```

Licensing Encrypted Password Feature

1. In order to use the Encrypted Password Feature, it is necessary to install a 16 byte RC4 Encryption Key to use for this system. You will be prompted twice to enter the key, in order to verify the Encryption Key.
2. Please enter the following command:

```
# cleokey
```

Please Enter the 16 Byte RC4 Encryption Key:

Please Enter the 16 Byte RC4 Encryption Key:

NOTE: If the Encryption Key needs to be changed or re-entered, you can do so by running the *cleokey* program again:

```
# cleokey
```

The program will prompt for the 16 Byte RC4 Encryption Key twice.

If you change the 16 Byte Encryption Key, you will need to remove all existing application's encryption files(/vs/trans/applname.pwenc) and encrypt them again, using the *hlogidimport* and *hpwencrypt* utilities.

NOTE: The *cleokey* program will not echo the 16 Byte Encryption Key that is entered.

3. In order to use the Password Encryption Feature, you will need to contact Cleo Communications to Obtain a License Key. You will need to provide Cleo with the Name of your Avaya System and the Cleo serial number of your system.

Obtain the Avaya System Name by entering the following command:

```
# uname -n
```

The system Name will be output.

Obtain the Cleo Serial Number of your Avaya System by entering the following command:

```
# cleoserial -r
```

The Cleo Serial Number will be displayed. If your system does not have a Cleo Serial Number, please contact Cleo Communications Technical Support to obtain the Cleo Serial Number. Then enter the serial number on your system, by entering the following command:

```
# cleoserial -w nnnnnn
```

Where: nnnnnn is the Cleo Serial Number.

4. To License the Password Encryption Feature manually, using the Cleo Serial Number and Cleo License Key, proceed to step 5.

If you chose to License the Password Encryption Feature using files placed on the IVR system, then please do the following:

Make sure the Cleo Serial Number has been entered on the system.

Place the Cleo License Key file, that you received electronically from Cleo, in a text file on the IVR system.

Then enter the following command, and proceed to the next section:

```
# cleohpwlic -f FILE
```

Where: FILE is the full path to the Cleo Password Encryption License Key File.

5. To license the Password Encryption Feature manually, enter the following command:

```
# cleohpwlic
```

You will be prompted as follows. Please enter the correct information for both the serial number and License key prompts.

License File has not been verified:

Enter the serial number:

Enter the license key:

The Cleo Encryption Software is Properly Licensed

NOTE: If the serial number or license key are not input correctly, or are wrong, you will be prompted again, as shown above. You may be prompted up to 10 times, before the program will stop.

Enabling Encrypted Password Feature

1. The Host DIP needs to be configured in order to enable the use of the Password Encryption Feature.
2. Please enter the following command to Enable Password Encryption:

```
# hdipconfig -E ON
```

NOTE: See Appendix A. for all the *hdipconfig* program options.

3. In order for the Host DIP to use the newly configured option, it is necessary to restart the Host Interface, by entering the following commands:

```
# stop_hi
```

```
# start_hi
```

4. You can now use the Password Encryption Feature. Please see the **“Cleo Encrypted Password User Guide”** for details on using the Password Encryption Feature(Section “Instructions for Using the Encrypted Password Feature” page 20).
5. If the need arises to DISABLE the Password Encryption Feature, please enter the following command:

```
# hdipconfig -E OFF
```

Cleo CleoEDIP Removal

1. Login in as *root*.
2. Remove the CleoEDIP Package by entering the following command:

```
# pkgrm CleoEDIP
```
3. Upon removal of the CleoEDIP package, the /vs/data/hostsvc **“HOST SERVICES FILE”** will be converted back to its original form.

APPENDIX A.

The *hdipconfig* program is used to set/unset Host DIP configuration parameters for the MOD2-5, the Encrypted Password, and NLS(National Language Support) Features. The syntax of the command is as follows:

```
# hdipconfig [-Q] [-M ON|OFF ] [-E ON|OFF] [-T ON|OFF]
[TRANSTABLE]
```

-Q - Displays current status of Extensions, ON or OFF.

-M - Model 2-5 Feature

ON - Enable Model 2-5 Feature

OFF - Disable Model 2-5 Feature

-E - Encrypted Password Feature

ON - Enable Encrypted Password Feature

OFF - Disable Encrypted Password Feature

-T - NLS Feature

ON - Enable NLS Feature

OFF - Disable NLS Feature

TRANSTABLE

An Optional EBCDIC/ASCII translation table.

TTDEFAULT - Default Translation Table US English.

TTBLANKS - Convert non US English characters to Blanks

TTHYPHENS - Convert non US English characters to Hyphens

TT1025_88595 - Cyrillic Russian Character Translation

Using IBM 1025 EBCDIC and ISO 8859_5 ASCII

TT875_88597 - Greek Character Translation

Using IBM 875 EBCDIC and ISO 8859_7 ASCII

TT838_620 - Thai Character Translation

Using IBM 838 EBCDIC and TIS 620 ASCII

TT889_620 - Thai Character Translation

Using IBM 889 EBCDIC and TIS 620 ASCII

TT938_885911 - Thai Character Translation

Using IBM 938 EBCDIC and ISO 8859_11 ASCII