

Administration Guide

EDACS[®] Product Licenses
for Windows NT[®]

CREDITS

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C3 Maestro is a trademark and EDACS is a registered trademark of Ericsson Inc.

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INTRODUCTION

Many Ericsson Inc. EDACS software products require licenses. With license controlled features a customer will be able to pay only for the features and capacities required for a particular installation. The customer will also be able to receive software upgrades that contain desired problem resolutions without having to pay for any unwanted new features in the upgrade. This document describes the required procedures for license installation and removal, license status review, and license backup and restoration for Windows NT EDACS products.

This document details the procedures that a customer must follow to install licenses for operation of EDACS Windows NT based EDACS software products. Currently the C3 Maestro™ for Windows NT and CEC/IMC Manager for Windows NT require license installation for proper operation.

LICENSE ADMINISTRATION

The customer will be able to add and remove licenses, and review the current license status using a Windows NT license administration tool. The EDACS Windows NT products also allow the customer to check the current license data being used by the product. Refer to the particular product's operation documentation for information on its current license data display.

LICENSE CERTIFICATES

Each licensed feature or capacity for a product requires a license certificate from Ericsson Inc. The following is an example license certificate for an imaginary product.

```

----- N L S P A S S -----
Vendor Password bi3j5tz4np2ai
built as
  vendor name : Ericsson Inc.
  vendor id   : 705e6f3466f8.02.93.75.2a.cf.00.00.00
  target      : any
ls_admin -a -v "Ericsson Inc." 705e6f3466f8.02.93.75.2a.cf.00.00.00 bi3j5tz4np2ai

Product Passwords built as
  name       : CEC/IMC Wonder Widget
  id         : 199
  version    : 0
  license type : Concurrent Access

  Product password for any server : 6abc3vp5cfdmwamnaeat2aaa
  built as
    start date      : 10/30/95
    duration        : 365
    expiration      : 10/28/96
    number          : 1
    target type     : Any
    target          : Any
ls_admin -a -p "Ericsson Inc." "CEC/IMC Wonder Widget" 6abc3vp5cfdmwamnaeat2aaa
"0"
----- N L S P A S S -----

```

CERTIFICATE INFORMATION

The important fields to the customer from this certificate are listed in the following table. The vendor ID has to be entered only for the first license. Subsequent licenses will pick up the ID when the vendor name is entered. The start and end dates (and duration) define the period that the license is valid. A new license will be required to continue feature operation after the end date (permanent licenses with no end date can be purchased).

Field	Example Value	Comment
Vendor Name	Ericsson Inc.	Ericsson license identifier
Vendor ID	705e6f3466f8.02.93.75.2a.cf.00.00.00	
Product Name	CEC/IMC Wonder Widget	Licensed feature/capacity name
Product ID	199	license ID
Product Version	0	
Start Date	10/30/95	Specifies period when license is valid
Duration	365	
End Date	10/28/96	

CERTIFICATE FORMAT

A license certificate may be delivered as either a disk file on a floppy disk or a printout (see above). The license can be read directly off of the floppy disk by the license administration program. The license from the printed certificate is entered manually by entering the data from the certificate into the administration program. Procedures for either type certificate are contained in this document.

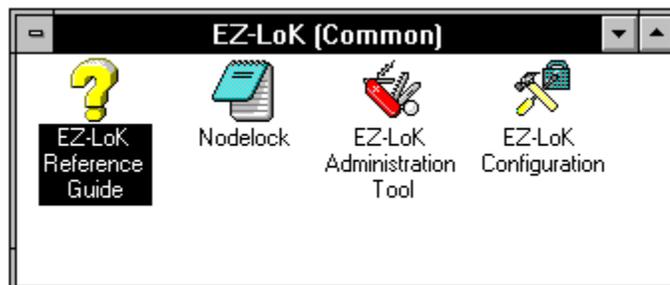
LICENSE SYSTEM STATUS

Before attempting license administration procedures you should verify that the license system has been installed and is operational as described below.

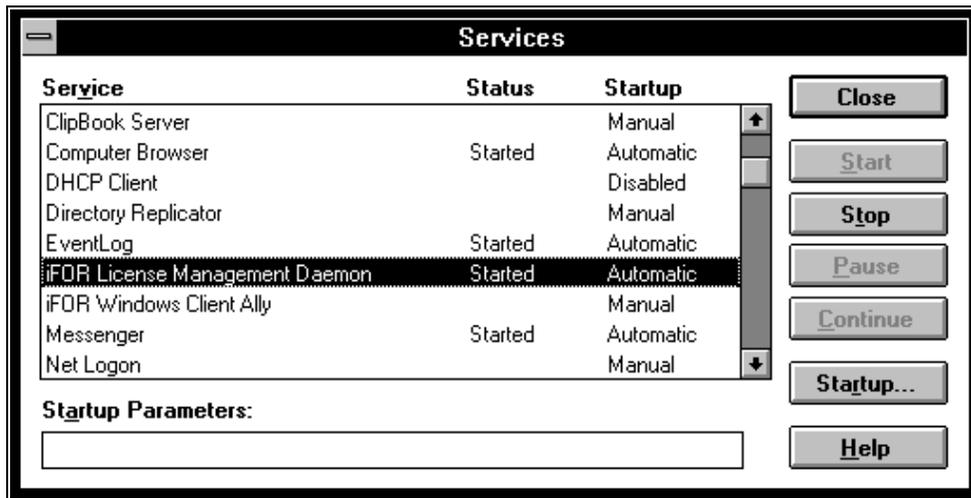
LICENSE SYSTEM INSTALLATION

Verify that the following items are present on the Windows NT computer that will be running the EDACS Windows NT product.

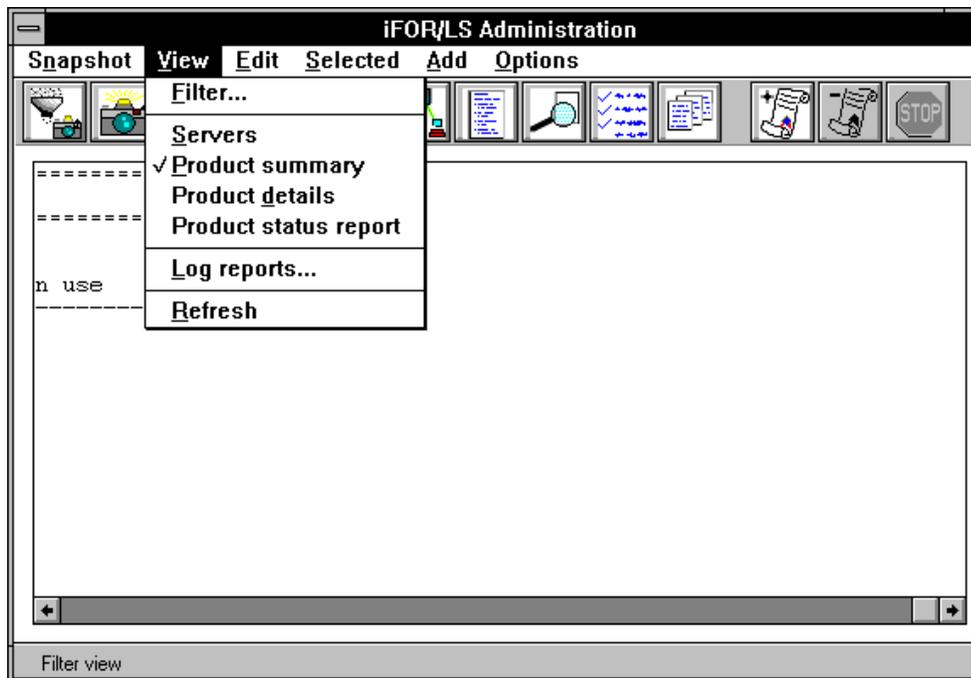
1. EZ-LoK™ program group. (The ? files may not be present)

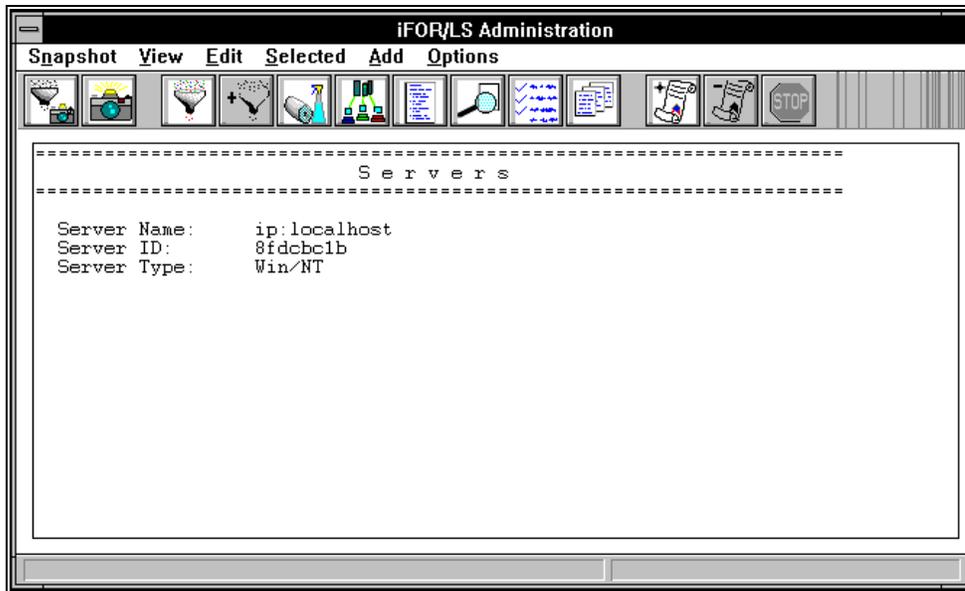


- License service running. From the Windows NT Program Manager select Control Panel / Services, verify that the "iFOR® License Management Daemon" is Started and set for Automatic startup.



- Verify that a local host license server is running. Run EZ-LoK Administration Tool from the EZ-LoK program group. From the iFOR/LS Administration menu bar select View / Servers to put a check mark next to Servers.





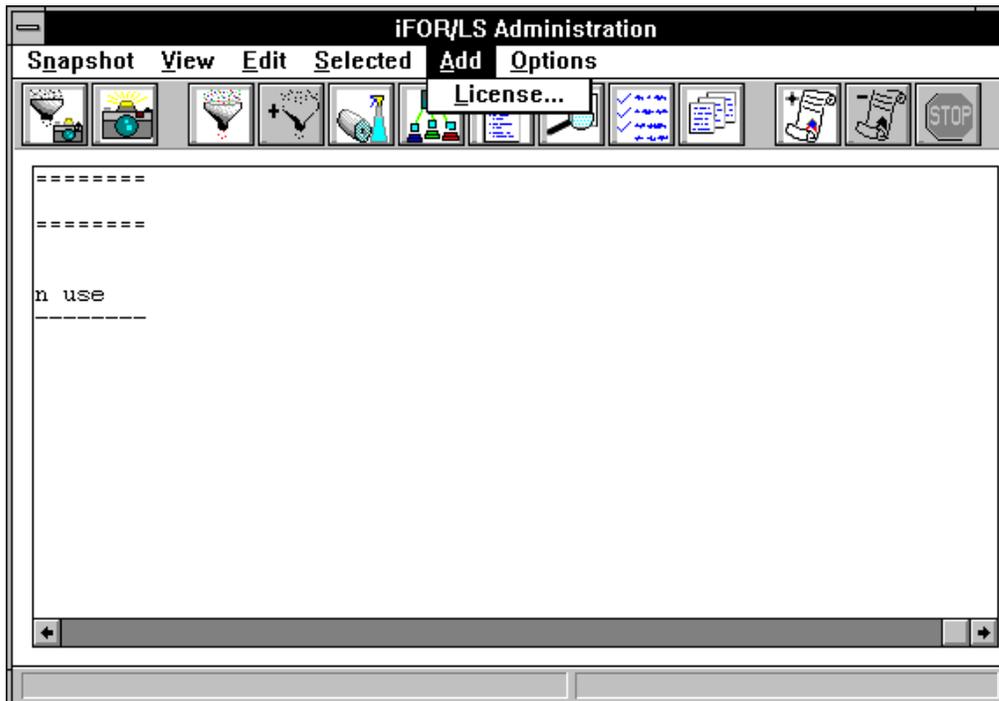
Verify the screen display is similar to the above screen after checking Servers. If any of the above items are missing or incorrect contact your Ericsson customer support representative.

ADD LICENSE

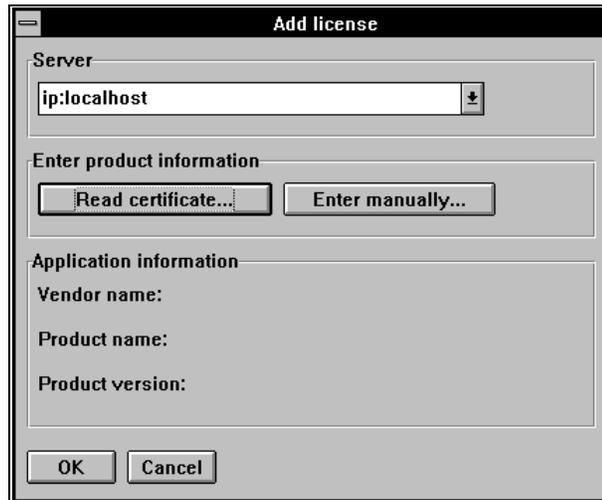
Disk File

Licenses on a floppy disk are contained in separate files, they must be installed separately as described below.

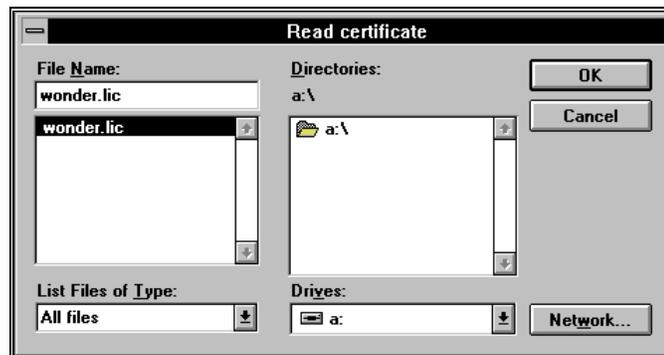
1. Select Add / License from the iFOR/LS Administration (EZ-LoK Administration Tool) menu bar to display the Add license dialog box.



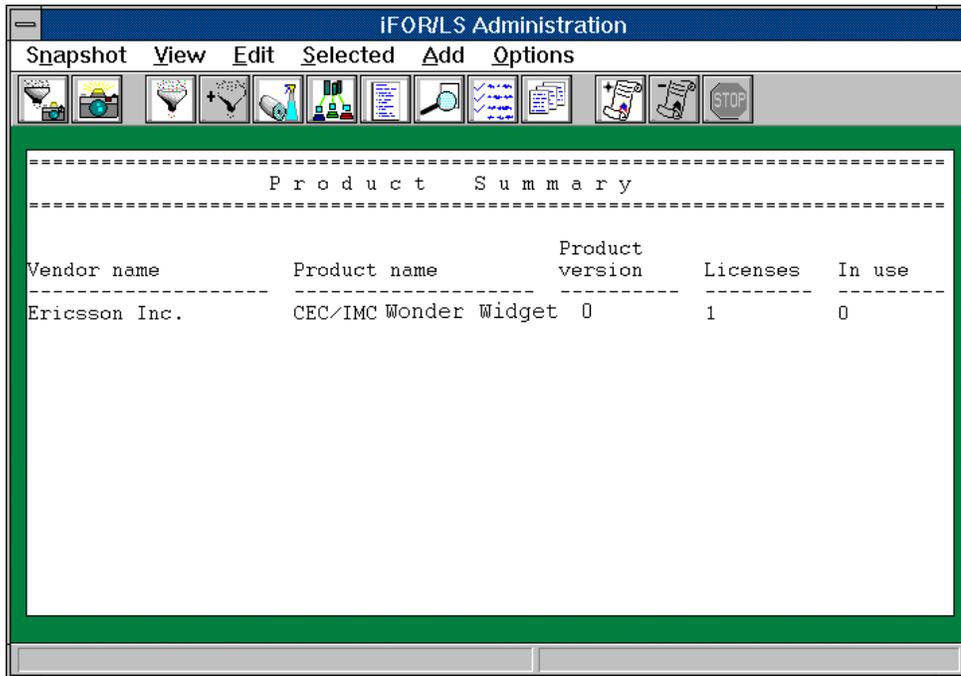
- Choose the **Read certificate...** button to read license certificate from a disk file. The Read certificate dialog box will be displayed.



- Place the floppy disk containing the license certificate file in the floppy disk drive. Select the floppy drive from the file selection window displayed (usually a:) and select a license certificate file. A file will exist for each license on the floppy disk. Choose **OK**, and then **OK** in the Add license dialog box to read the license certificate disk file.

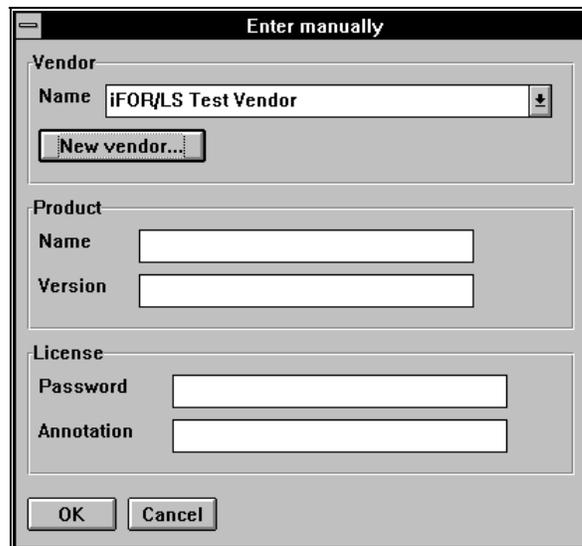


4. Select View / Product Summary from the menu bar to verify that license has been installed.



Printed Certificate (Manual entry)

1. Select Add / License and then choose the **Enter manually...** button instead of **Read certificate...** from the Add license dialog box to enter a license manually.



2. If this is the first license you must enter Ericsson Inc. as a new vendor (test vendor is always displayed if no other vendors have been entered). Choose the **New vendor...** button to display the New vendor dialog box (see below). Enter the Ericsson Inc. vendor information from the certificate. Choose **OK** to return to the Enter manually dialog box.

The 'New vendor' dialog box is titled 'New vendor'. It has a 'Vendor' section with three input fields: 'Name' containing 'Ericsson Inc.', 'ID' containing '705e6f3466f8.02.93.75.2a.cf.00.00.0', and 'Password' containing 'bi3j5tz4np2ai'. At the bottom, there are 'OK' and 'Cancel' buttons.

3. Enter the product information from the certificate, note that the annotation field is required for capacity licenses such as Max Causeway. Choose **OK** to return to the Add license dialog box.

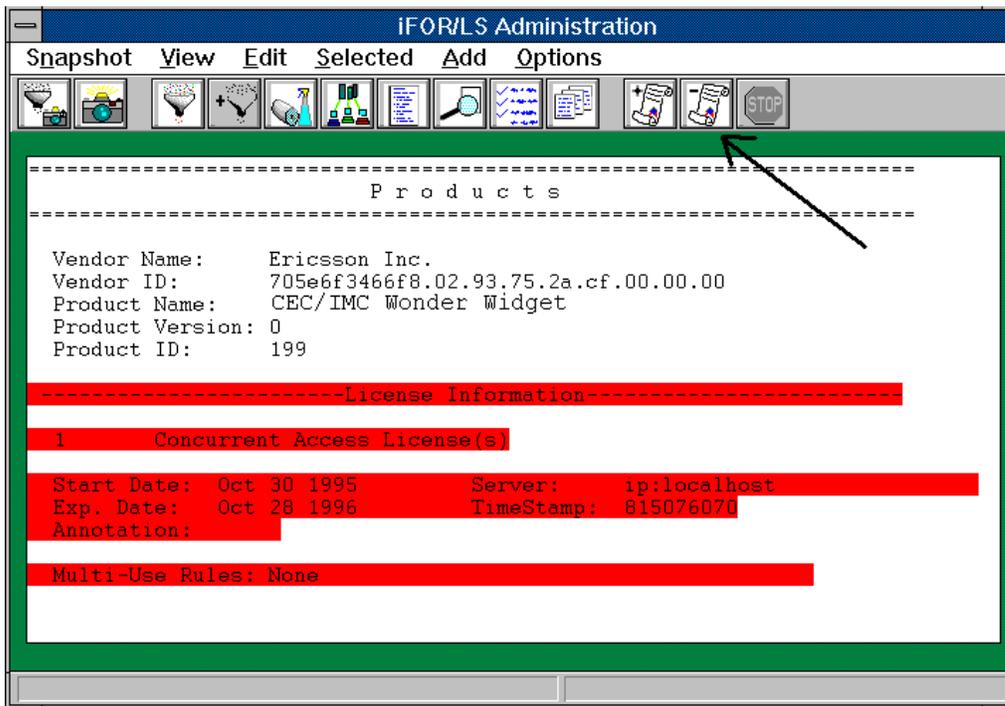
The 'Enter manually' dialog box is titled 'Enter manually'. It is divided into three sections: 'Vendor', 'Product', and 'License'. The 'Vendor' section has a dropdown menu with 'Ericsson Inc.' selected and a 'New vendor...' button. The 'Product' section has 'Name' 'CEC/IMC Wonder Widget' and 'Version' '0'. The 'License' section has 'Password' '6abc3vp5cfdmwamnaeat2aaa' and an empty 'Annotation' field. At the bottom, there are 'OK' and 'Cancel' buttons.

4. Choose **OK** in the Add license dialog box and the license will be added. Select View / Product Summary to verify that license has been installed.

DELETE LICENSE

Before adding a new license for a particular feature or capacity you must delete any existing license for the same license Product Name/Product ID. For example, to increase the number of CEC/IMC Causeway patch simulelects that may be programmed from 10 to 20 Ericsson Inc. would supply a "CEC/IMC Max Causeway" license with the annotation set to 20. You would first delete the existing license with max = 10, and then add the new max = 20 license. EDACS Windows NT licenses are not additive.

1. Select View / Product details from the iFOR/LS Administration (EZ-LoK Administration Tool) menu bar.
2. Display the details for the product license that you wish to delete. Click the mouse in the lower half of the information to select this license.



3. Press the "-" icon (see arrow on diagram) to delete the license (press **OK** in Delete confirmation message box).

LICENSE STATUS

Product Summary

Select View / Product summary to display all licenses installed on the PC for use by EDACS Windows NT programs. CEC/IMC Manager and C3 Maestro for Windows NT licenses will both appear in the same list under the Ericsson vendor (if both are installed on a single PC, normally they will be on separate PCs).

Product Details

Use the View / Product details selection to display the annotation for licenses. This indicates the value used for capacity type licenses. The licenses valid time period is also displayed on this screen—start date, end date, and duration.

LICENSE BACKUP/RESTORATION

EDACS product licenses are required for correct software product operation; therefore, it is **very important** that product licenses be backed up to allow restoration of licensed product operation in case the licenses or license system are corrupted.

LICENSES

All EDACS product license certificates should be saved for the duration of the license. This includes printed (paper) license certificates or digital (floppy disk) license files. If the license system is damaged and requires re-installation the license certificates will be required to re-enter all licenses. (The backup procedure below saves the license database so license re-entry should not be required after a restore.)

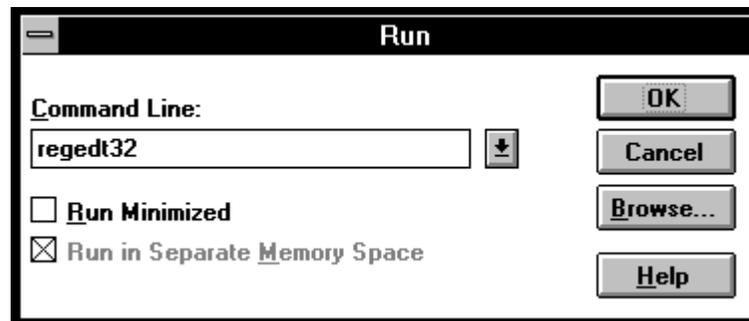
LICENSE SYSTEM/DATABASE

The entire directory tree—*c:\iFOR\LS and subdirectories*—must be backed up to floppy disks or a backup tape. The directory contains approximately 6 MB of data and will require several floppy disks to back-up. Third party backup software such as Microsoft® Backup should be used to handle compression and multiple disks for this backup.

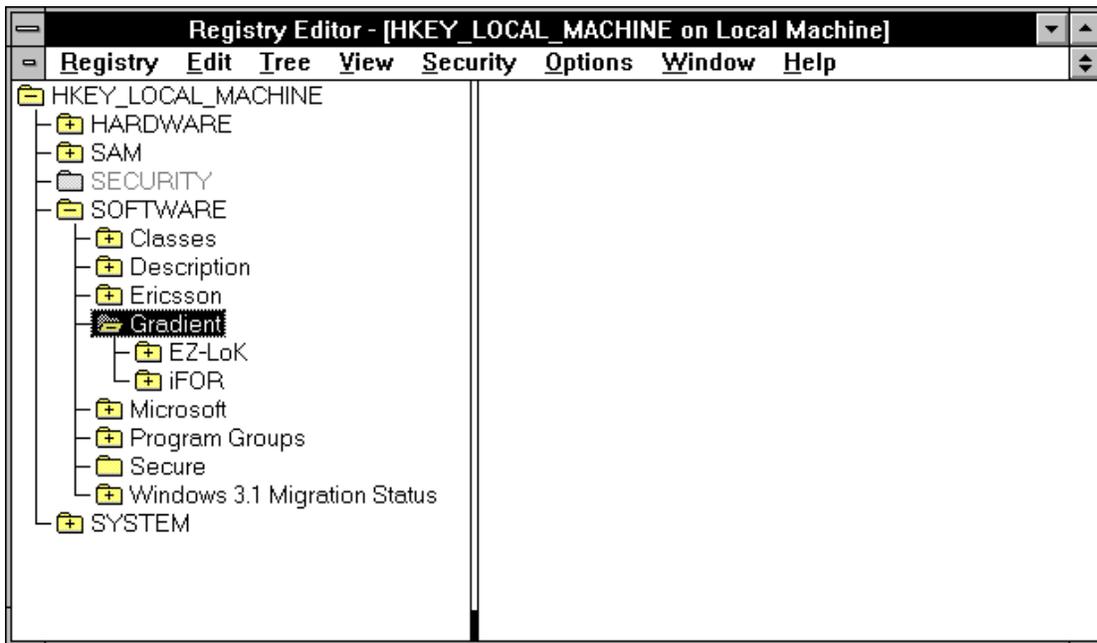
License System Registry Data

The license system requires several Windows NT registry settings for proper operation. These settings should be saved to the *c:\iFOR\LS* directory before backing up the directory. On a restore the registry settings can be restored from this file.

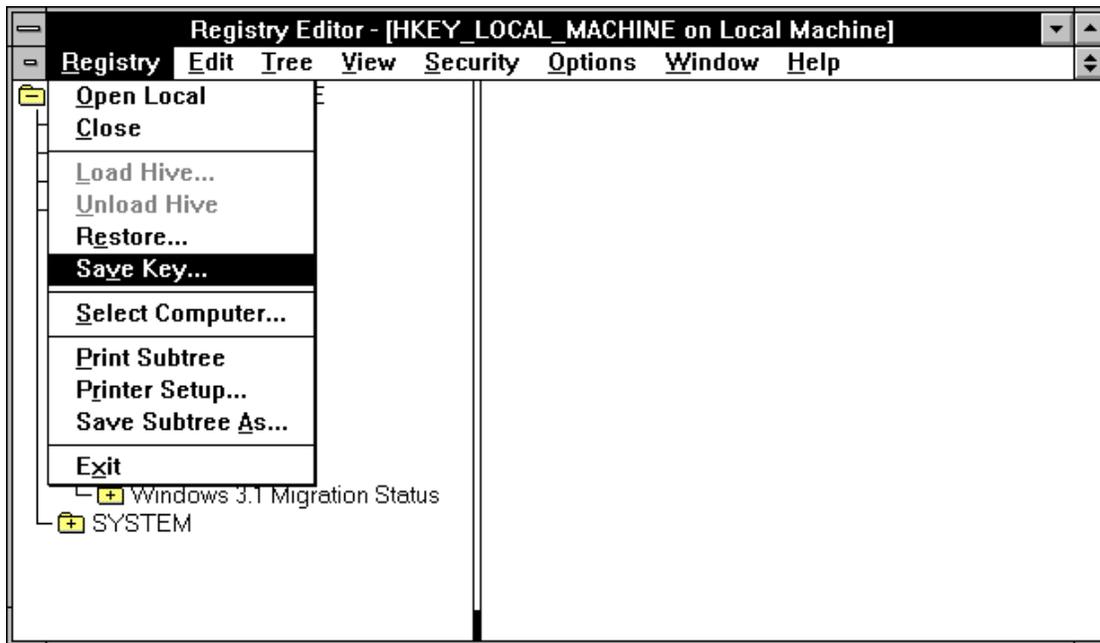
1. From the Program Manager select the File / Run menu item. Enter "regedt32" in the command line box of the displayed dialog box.



2. Select the HKEY_LOCAL_MACHINE window in regedt32. (Select the Window menu entry and then select HKEY_LOCAL_MACHINE.
3. Select the Software / Gradient® subtree (just like directory subtrees in file manager).



4. Select Registry / Save Key menu item and save the key as "c:\iFOR\LS\Gradient.key."



5. Whenever the license system files are restored from the backup data the license registry data should be restored:
 - Run regedt32 again and select the HKEY_LOCAL_MACHINE window (see step 2).
 - With the "Software" subtree selected, choose the Registry / Restore menu item and select the c:\iFOR\LS\Gradient.key file. This will restore all licensing system registry items.

Windows NT Rescue Disk

It is recommended that a Windows NT emergency repair disk be created to allow recovery in the case where a hard drive or other failure causes Windows NT to become "un-bootable." Refer to the Windows NT documentation for the procedures to create an emergency repair disk and to use it for system recovery.

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AE/LZT 123 1906 R1A
Printed in U.S.A.