September 2000

Dear CADDS® 5i Customer:

Over the past decade, PTC has provided solutions for discrete manufacturing companies with a strong focus on mechanical design automation (MDA). We have now significantly enhanced our product line and offer a far broader set of manufacturing software solutions. These include a suite of e-business solutions that let manufacturers collaborate with customers and suppliers to build products over the Web. In addition, our new PTC Global Services provides implementation, training, and support for all of our solutions.

To better reflect who we are today, we have changed our corporate identity. Please take a moment to learn more about our vision by visiting www.ptc.com.

As part of our continuing commitment to strengthening our MDA product line, PTC is pleased to present the second maintenance release of CADDS 5i Release 11 2000300. The initial release, datecode 2000100, was a continuation of the development of this powerful *i*-Series product. These improvements included over 77 significant customer-driven projects, plus many other enhancements with a keen focus on usability, stability, and robustness.

Refer to the table on page 2 of the *CADDS 5i Release 11 Read This First*. The table shows the latest operating systems supported by this release. These systems were qualified after rigorous testing for the previous maintenance release of CADDS 5i R11.

CADDS 5i includes the full use of CAMU across mixed UNIX and Windows NT platforms and extensive improvements in the reuse of parametric parts (Construct Ppart) and history editing. As a result, the use of model data throughout the design and manufacturing process is more flexible. For those designers dealing with the increasingly complex and sophisticated shapes required by today's markets, Interactive Surface Design (ISD) includes additional lofting and surface analysis options. Ease of use and performance improvements in drafting/HLR and CAMU increase productivity for engineers and drafters. At the same time, Sheet Metal Design and CVNC manufacturing tools extend support for legacy data and new machining routines. Leading-edge capabilities are now accessible for developing products using composite materials through extensive enhancements to the CADDS Composites options.

Combining functionality already released in CADDS 5i R11 with the release of e/ENGINEER 2000i2, PTC is pleased to announce the release of the CADDS 5i Centric ATB software options. These options make CADDS 5i a very powerful tool in the context of the PTC *i*-Series by putting the power of the Associative Topology Bus (ATB) in the hands of the CADDS user. This means that while you continue to benefit from your expertise and investment in CADDS, you will also be able to seamlessly access other PTC MCAD products to use newer technologies and achieve business advantages not available using CADDS. Perhaps even more importantly, other PTC MCAD products extend the market place of suppliers and customers with whom you can share data and design responsibilities. To find out more about the PTC *i*-Series, visit our Web site at http://www.ptc.com/products/flex_eng.htm.

If you are interested in adding the CADDS 5i Centric ATB options to your CADDS installation or any other CADDS software, please visit our exciting new on-line store e/STORE, at our Web site http://www.ptc.com/company/faqs/store.htm.

For additional information on the enhancements in this release, please refer to the attached *CADDS 5i Release 11 Read This First* and the online book *What's New in CADDS 5i Release 11*.

For other CADDS product information, visit our Web site:
http://www.ptc.com/products/cadds/index.htm.

As with CADDS 5i Release 10 1999100, only the initial release is automatically shipped to all customers. For subsequent maintenance releases, go to the customer service online ordering tool at http://www.ptc.com/olm/index.htm. Click **Request a software update**. To proceed, you need your system Config ID (in recently issued license files) and a customer support account. If you have any difficulty obtaining either of these, or if you do not have Web access, call your local support desk.

Finally, it is important to PTC to continue to develop a robust, high-quality product to protect your investment in CADDS. PTC firmly believes that these latest developments will extend your productive use of CADDS and will let you access the wider range of newer and developing technologies that PTC is creating. Furthermore, we welcome your input in defining future CADDS 5i developments.

Sincerely,

Marc E. Donoghue
CADDS Product Line Manager

READ THIS FIRST
CADDS® 5i Release 11

Important Information for Installing and Using CADDS 5i Release 11

Directory of Online and CD-ROM Information

Latest Read This First Information	http://www.ptc.com/cs/doc/index.htm
Hardware Configuration Information (available on the product CD-ROM and online)	http://www.ptc.com/partners/hardware/21/index.htm <cdrom_drive>/rls_notes/index.htm
Software Configuration Information (available on the product CD-ROM and online)	http://www.ptc.com/cs/doc/index.htm

CADDS 5i Release 11 Release Notes

For more information on CADDS 5i Release 11 tips and considerations, and UNIX and Windows NT system considerations, see the *CADDS 5i Release 11 Release Notes*.

CADDS 5i Release 11 Datecode

Beginning with CADDS 5i Release 10, the datecode replaces the CADDS build number. This code increments with each successive maintenance release. The new datecode is displayed as follows in the startup window or by clicking the CADDS 5i icon:

CADDS 5i Release 11 – 2000300
Copyright (c) 2000 Parametric Technology Corporation (R)

CADDS 5i Release 11 System Considerations

CADDS is not supported in the 64-bit mode.

Supported Compilers

Compilers for this CADDS release are listed in the following table.

Supported Compilers

Platform	Operating System	C	C++	Fortran
Sun SPARC	Solaris 2.6 May 1998	SPARCompiler C 4.2	SPARCompiler C++ 4.2	SPARCompiler Fortran 4.2
SGI MIPS	IRIX 6.2 (32 bit)	7.2.1.2	7.2.1.2	7.2.1.2
Compaq Alpha	Digital UNIX v4.0D	V5.6	V6.0	V5.0
IBM RS6000	AIX 4.2.1	3.6.4.2	3.6.4.2	4.1.0.0
HP PA-RISC	HP-UX 10.20 ACE4	G.10.32.05	ac++/A.01.15	B.10.20.09
Windows NT (Intel)	Windows NT 4.0 SP5	MSVC 6.0 SP3	MSVC 6.0 SP3	Digital Visual Fortran 6.0

Note: When compiling, programming products are supported only on the CADDS build platforms listed in the preceding table. The resulting compiled code is supported on all operating system versions on which CADDS is currently supported.

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English
DOC-LT60073B-EN-110
2000300

Supported Operating System Versions

CADDS supports the following operating systems and window managers.

Supported Operating Systems and Window Managers

Platform	Operating System Version and Window Manager
Sun SPARC	Solaris 2.6 May 1998, Solaris 7, **Solaris 8**
SGI MIPS	IRIX 6.2, 6.3 (O2), 6.4 (Octane), and 6.5
Compaq Alpha	Digital UNIX v4.0D, **4.0E**
HP PA-RISC	HP-UX 10.20 (HP-VUE and CDE) ACE4, **HP-UX 11**
IBM RS6000	AIX 4.2.1 (CDE) and 4.3.2, **AIX 4.3.3**
Windows NT (Intel)	Windows NT 4.0, **Windows 2000**

Use the command `uname -a` to determine the version of the operating system.

Note: Use CADDS 5i Release 11 and its associated products for Sun on Solaris 2.6, Solaris 7, and Solaris 8 only. You must have system administrator privileges to use features on Windows 2000.

Supported Patches

CADDS was subjected to final qualifications using system patches that are available on vendor-specific Web sites. The following is a list, as of December 1999, of the operating system patch bundles that must be installed before you run CADDS 5i Release 11 datecode 2000300.

Operating System	Recommended Patch Bundles	Specific Patches Required
Solaris 2.6 May 1998	Solaris 2.6 Recommended Patch Bundle December 10, 1999 Solaris 2.6 Y2K Patches December 9, 1999	Replaced 105181-17 with 105181-16. 105633-30 OpenWindows (Pro/ENGINEER) 105591-07 libC (Pro/ENGINEER) 105360-30 Creator (Pro/ENGINEER) 105361-11 VIS (Pro/ENGINEER) 105363-11 for Elite 3D 106022-09 OpenGL 1.1.1 Creator 3D or Elite 3D 106735-11 OpenGL 1.1.2 Creator 3D or Elite 3D Use the following patches prior to using Associative Topology Bus: 105633-06 OpenWindows 105284-12 Motif 105591-02 libC 105360, 1055361 Creator 3D 105363, 105361 Elite 3D
Solaris 7	Solaris 2.7 Recommended Patch Bundle December 8, 1999	107078-30 OpenWindows 106148-08 XFB 106145-13 FFB 106147-06 VIS/XIL 107104-06 OpenGL 1.1.2 107105-06 OpenGL 1.1.2

Operating System	Recommended Patch Bundles	Specific Patches Required
Solaris 8		10104-06 OpenGL 1.1.2 107105-06 OpenGL 1.1.2
HP-UX	HP-UX B.10.20 ACE4 (June 1999)	B6193DA Workstation ACE for HP-UX 10.20 (June 1999) 700QPK1020 Workstation Quality Pack for HP-UX 10.20 (June 1999) Y2K-1020S700 HP-UX Core Operating System Year 2000 Patch Bundle PHSS_17160 3D Common Runtime patch PHSS_17161 PEX 5.1 Starbase Hardcopy Runtime patch PHSS_19963 X/Motif Runtime October 1999 Periodic Patch
	HP-UX 11	B6268AA B.11.00.02 Graphics and Technical Computing Software ExtraSeedPatches B.11.00.47.05 Extra Seed Patches (ACE9911) HPUXEng64RT B.11.00 English HP-UX 64-bit Runtime Environment XSWGR1100 B.11.00.47.05 General Release Patches, November 1999 (ACE) PHNE_20094 Streams Pty Cumulative Patch PHSS_20863 CDE Msg Cat March 2000 Periodic Patch PHSS_20864 CDE Runtime March 2000 Periodic Patch PHSS_20865 X/Motif 2.1 Runtime March 2000 Periodic Patch
IRIX	IRIX 6.5 6.5.5m	IRIX 6.5.5m Maintenance Release
	IRIX 6.2	IRIX 6.2 Recommended Patch Set June 2, 1999 IRIX 6.2 POSIX Patch Set June 2, 1999
AIX	AIX 4.3.2.0	IX82634 Y2K
	AIX 4.2.1.0	IX67792, IX68608 IX72986, IX77149, IX78807 IX79561, IX82633 Y2K
	AIX 4.3.3	AIX 4330-02 Recommended Maintenance for AIX 433
Digital UNIX	Digital UNIX v4.0D (Rev. 878)	No patches required.
	Digital UNIX v4.0E (Rev. 1091)	No patches required.
Windows NT	Windows NT 4.0	SP 4, SP 5, or SP 6
Windows 2000		No patches required.

Required Patches on the HP Platform

You must install the following patches before using CADDS 5i Release 11 on the HP platform:

- PHSS_19739 B.10.00.00.AA HP DCE/9000 1.5 cumulative patch
- PHSS_20608 B.10.00.00.AA HP DCE/9000 1.5 libcma patch

Accessing Open or Resolved Issues

To search and view reported issues that are specific to a release, follow these steps:

1. Access http://www.ptc.com/support/support.htm.
2. Search for Technical Application Notes under **Search the Knowledge Base** or **Online Support Applications**.

To access the search tool, you must have an account with PTC. To open an account go to http://www.ptc.com, select **support**, select **Sign-up Online**, or call PTC Customer Service. See http://www.ptc.com/company/contacts/tech_support.htm for details on PTC customer services worldwide.

General CADDS

CV_PLATFORM Variable

Use `OpenGL` as the accelerator platform on Solaris 8 by setting the `CV_PLATFORM` variable to `ogl`. The `CV_PLATFORM` variable automatically enables `ogl` even if it is set to `xgl`, because `xgl` is not supported on Solaris 8.

Note: Install `OpenGL` prior to setting the `CV_PLATFORM` variable.

Supported OpenGL on Solaris

Use OpenGL 1.1.2 or earlier on Solaris because using OpenGL 1.2 results in font problems in CADDS.

Using CADDS 5i Release 11 with Optegra Release 4

To use CADDS 5i Release 11 with Optegra Release 4, copy the `/usr/apl/cadds/slib/libcvstubs.so` file to `/opt/dm/v40/lib`.

New Environment Variable in CADDS

CADDS has a new environment variable, `C5_SHOW_WHATS_NEWR11`. Set the `C5_SHOW_WHATS_NEWR11` variable to `yes` in the `.caddsrc-local` file to see what is new in CADDS 5i Release 11.

CADDS 5i ISSM

On the HP-UX 10.20 platform, CADDS 5i is linked with `libXm` before `libXt`, so that customized commands, written as shared objects using customer programming in CADDS 5i ISSM, can use Motif.

Workgroup Manager

To enable CADDS and the Workgroup Manager to work together, select the **Workgroup Manager for CADDS** option from the option menu during SLIC installation.

Execute Files

Remove all tabs from execute files and replace them with a trailing space at the end of each line to avoid unpredictable results.

Plotting

When plotting a drawing using PLOT DOT on the Solaris platform, you may get an error message stating that the disk is full, even when the disk has plenty of free disk space. Link the `/usr/plotspool/raster` directory to a drive that has less than 1 GB of space.

MEDUSA CADDS 5 Interface

Use MCI (MEDUSA CADDS 5 Interface) to create MEDUSA sheets from a CADDS 5 part instead of the **CADDS 5->MEDUSA** option of the MEDUSA 2D Interface menu (available through the **Utilities** option of the LDM) or the WRITE MEDUSA command in the CADDS 5 Parametric environment. The **CADDS 5->MEDUSA** option and the WRITE MEDUSA command are no longer supported. For more information on MCI, please see the *MEDUSA CADDS 5 Interface Guide (MCI2)*.

CVact

CVact Design Guideline for Lists

Use OptionList for lists with 10 items or fewer. Use ScrollList instead of OptionList for lists with more than 10 items.

CVMAC

CVMAC ACTPRT Command

When issuing the ACTPRT (Activate Part) command from CVMAC, the Activate Old or New Drawing menus are not displayed. You must use the ACTDRA (Activate Drawing) command after an ACTPRT command in CVMAC for activating an old or new drawing.

CVMAC_CALLF_OBJ

You can now assign a number of paths to the `CVMAC_CALLF_OBJ` variable in the `.caddsrc_local` file, seperated by colon (:) to indicate the search paths for the corresponding FORTRAN and C object files of a CVMAC `CALLF` statement.

Explicit

Activating a New Part

On activating a new part in the Explicit environment, the drawing forms are now listed in the same order as in the Parametric environment.

Sheet Metal Design (SMD)

- SMD_CHORDAL_TOLERANCE — `SMD_CHORDAL_TOLERANCE` is a new environment to set the default chordal tolerance value used for unfolding. This value is in user units. The default value is the 2 mm equivalent in user units.
- SMD_THICKNESS and SMD_RADIUS_INTERNAL — The default values for the variables `SMD_THICKNESS` and `SMD_RADIUS_INTERNAL` are the 2 mm equivalents in user units.
- New SMD currently is unable to produce a corrected development for a cylindrical surface part.
- New SMD currently fails to produce the correct folded model for a cylindrical part. The resulting folded model is a mirror of the ideal model.

Parametric

INSERT PPART and UPDATE PPART Commands

The INSERT PPART and the UPDATE PPART commands in the Parametric environment cause CADDS to exit when you use them to import the geometry of very large source parts.

Interactive Surface Design (ISD)

Divide Curve — DIVIDE gives unexpected results or corrupts the ISD session if you modify the geometry of the operand curve by using a pton lying on the curve or by dragging the curve.

Sketcher

When using Sketcher with the x11 graphics board on the Compaq Alpha platform, set the **Display Guidelines** option to OFF to minimize the number of repaints.

CVNC

DEFDRIL5 REORIENT Command

You can use only the following sequence with DEFDRIL5 REORIENT:
CLEAR INMOTION APPROACH NORMAL RETRACT NORMAL

CHGTOOL Command

The CHGTOOL command now accepts a text string for the station number. For example,
`CHGTOOL '123456789' - Giving APT OUTPUT - LOADTL/123456789,LENGTH,100`
The following new modifiers are available with the CHGTOOL command:

- NOGAUGE — Outputs a zero value for the gauge length. For example,
  `CHGTOOL '123456789' NOGAUGE - Giving APT OUTPUT - LOADTL/123456789,LENGTH,0`
- DESCR — Outputs the CVNC description of the tool as a PPRINT statement. For example,
  ```
  CHGTOOL '123456789' NOGAUGE DESCRIPT - Giving APT OUTPUT -
  LOADTL/123456789,LENGTH,0
  PPRINT (CVNC tool description)
  ```

PROFILE3 and DEFPROF3 Commands

The following new modifiers are available with the PROFILE3 and DEFPROF3 commands:

- NOCIRCLE — Specifies that the command should not output circular interpolation records.
- CIRCLE — Specifies output of circular interpolation records wherever possible. This is the default.

Fastening Tool Path

You can fasten only those points that lie within the domain bounds of a surface. An error message appears if you try to fasten a point that lies outside of the domain bounds of the surface. This may affect tool paths in JCFs created earlier.

NCoutput Command

Use the CONTACT modifier, now available with the NCoutput command, to generate contact point data blocks to an output file.

CAMU

- The MARK CHANGES command now highlights the surrogate entities of the components that have been unviewed for a CAMU Adrawing.
- To activate a UNIX-based assembly on Windows NT, specify the following settings in the `caddsrc-local` file on Windows NT:
  - Specify the drive designators to `CVPATH` in lowercase text as given in the following example:

    ```
    setenv CVPATH c:/parts=c;.;h:/parts;h:/parts-legacy;
    ```

    Note: While accessing the database on UNIX, the `c:/parts` directory on Windows NT is not available for creation or activation of an assembly.
  - If the `ODB_DAEMON` process is running on a UNIX machine, as a user, specify the following:

    ```
    setenv umask "022"
    ```

    The `ODB_SERVER` process is spawned on the UNIX machine, and you now have write access to the database.

- If the ODB_DAEMON process is running on a UNIX machine, as root, specify the following:

  ```
  setenv umask "000"
  ```

  The ODB_SERVER process is spawned on the UNIX machine. You now have read access to the database.

- Set the DB_DAEMON_OS environment variable as follows to activate assemblies residing on the UNIX machine, otherwise, you can only activate assemblies residing on Windows NT.

  ```
  setenv DB_DAEMON_OS "unix"
  ```

- Specify the drive designators in the camu_mapping.txt file in lowercase text as shown in the following example:

  ```
  h:\parts $home/parts
  ```

- Specify the path of the camu_mapping.txt file in lowercase text

  ```
  setenv CAMU_NT_UNIX_MAP_FILE "c:/parts"
  ```

- UPDATE HLRIMAGE for an Adrawing does not properly generate a new HLR image if the view state is changed for a component of an assembly on which HLR has been performed.
- Referencing TIM Assemblies — For any assembly that references Translated Image Model (TIM) assemblies, the TIM flag "T" is not displayed on the TIM reference assembly node if the assembly is activated with the TIM reference assembly closed. The TIM flag "T" is displayed only when the TIM reference assembly is open.
- Nested Reference Assemblies — You can now enable nested reference assemblies of CAMU in the assembly mode. To do this, set the CAMU_EXPAND_REF_ENABLE variable in the $EPD_HOME/data/reposit/epdconn.ini file to 1.
- If you activate a drawing in CAMU that has closed assembly references on which HLR or SECTIONING has been performed, the following warning appears:

  ```
  Assembly tree is not fully open. View-update indication may not be given.
  ```

  This change applies to both the CAMU ACTIVATE DRAWING command and the Update Management functionality.

Detailing and Dimensioning

Context-Sensitive Dimensioning (CSD)

- You can press ENTER to accept the values entered in any of the edit fields in CSD.
- The **Autocenter** option on the Property menu and CSD menu operates synchronously. If this option is set to ON in the Property menu, the **Autocenter** option is set to ON in the CSD menus too. The name of this option in CSD has also been changed from **Autocenter ON/OFF** to **Autocenter**.

Hidden Line Removal (HLR)

The LAYER submodifier of the NONASSOCIATIVE modifier does not work with the new engine HIDE OBJECT FACETEDENGINE.

AEC

INSERT STJOINT MITRE

Two STelements, joined by a mitre type of joint, must be linear and of the same type.

A mitre joint is valid on a flange for I-sections, channel sections, T-sections, and rectangular sections. For Bulb bars, a mitre joint is valid only for the web. For other sections such as circular and L-sections, the mitre joint is valid for both flanges and webs. You cannot join two STelements with a mitre type of joint if an endcut exists on one of the elements.

Associative Topology Bus

For information on how to access Associative Topology Bus in different modes in the CADDS 5i environment and the tasks that can be performed, see *Using Associative Topology Bus Enabled CADDS 5i*.

- Set the ATB_ALERT_POLICY variable in the .caddsrc-local file to control the display of alert messages. Set the ATB_ALERT_POLICY variable to ALWAYS to display an alert message after each successful or a failed transaction in Associative Topology Bus. The ATB_ALERT_POLICY variable, when set to ONERROR, displays the alert message only after a failed transaction in Associative Topology Bus.

  Note: See the Report Window for details on the status of each Associative Topology Bus transaction.

- Set the DB_DAEMON_HOST variable in the .caddsrc-local file as follows to share assembly information:

  ```
  setenv DB_DAEMON_HOST remote_machine_name
  ```

  If you do not set the DB_DAEMON_HOST variable, the default value for the DB_DAEMON_HOST variable is the name of the machine on which CADDS is running.

  If the DB_DAEMON_HOST is set to the machine that runs e/ENGINEER, all users who need to share assembly information must set the ODB_am_wh variable as follows:

  ```
  setenv ODB_am_wh
  <eENGINEER_install_dir>/sun4_solaris/CV110/usr/apl/cvdors/bin/ODB_SERVER
  ```

  If the DB_DAEMON_HOST variable is not set to the machine that runs e/ENGINEER, then by default the ODB_am_wh variable is set as follows:

  ```
  setenv ODB_am_wh /usr/apl/cadds/bin/ODB_SERVER
  ```

- You must set the new PRO_EENG_INSTALL_DIR variable to the directory where e/ENGINEER is installed in the .caddsrc_local file. Usually the install directory is /opt/ptc/eeng2000i2.
- You can export a CADDS 4X double precision part to Pro/ENGINEER. Any attempt to export a CADDS 4X single precision part results in an error.
- The value of the IT_LOCAL_DOMAIN variable in the Orbix.cfg and classes/OrbixWeb.properties files in /usr/apl/cadds/data/orbixweb and in the <eeng_install_dir>/OrbixWeb3.1d directories must use the same name. They must be set either to nothing or set to the result of the /bin/domainname command.
- You can use the **Generate Topology Bus Report** option available from the **Query** icon on the top bar of the CADDS window, to obtain the following types of reports:
  - Specific transactions
  - Range of transactions
  - All transactions
  - Successes or failures of each part for an imported or exported assembly transaction
- The name of the converted part or assembly does not appear accurately in the alert message for the following update transactions of ATB from the source part or assembly:
  - CADDS TIM Part
  - CADDS TIM Assembly
  - Pro/ENGINEER TIM Part
  - Pro/ENGINEER TIM Assembly

  Note: The name of the converted part or assembly that appears in the report window is correct.

- To improve the display time of the list of Pro/ENGINEER parts or assemblies in the Import File menu within the CADDS desktop, select the required source path from the Runtime list (RTL) before selecting the part or assembly.

  Note: There will be a slight delay in the determination of the type of the model, that is, whether the model is a Pro/ENGINEER model or a Pro/ENGINEER TIM.

- The context-sensitive menu in the CAMU tree window does not list the following ATB options if the assembly is a reference assembly:
  - Verify TIM
  - Update TIM

Note: These options are listed in the context-sensitive menu if the assembly is a copy assembly.

- If you import a Pro/ENGINEER assembly for an assembly that has already been imported from the LDM mode, a message reports that the results file is corrupted.
- An assembly converted from Pro/ENGINEER, if opened in the Parametric environment, does not have a view defined in the default ADRAWING. Define a view to see Cplane.
- If you export a CADDS assembly that contains CADDS TIMs, the Pro/ENGINEER part is re-created with a different name. As a workaround, ignore the CADDS TIMs converted to Pro/ENGINEER and use the original Pro/ENGINEER models instead.
- When you import a Pro/ENGINEER assembly with suppressed components, the CADDS assembly contains the suppressed components all located at the (0,0,0) location. As a workaround, ensure that the components in Pro/ENGINEER are not suppressed before you import them into CADDS.
- Importing an already imported Pro/ENGINEER assembly can result in a segmentation violation. The CADDS TIM assembly must be updated (not imported twice).
- CADDS users must avoid changing layers in CADDS 5 parts that were exported to Pro/ENGINEER. Further updates can cause the loss of layer assignments.

CVPATH

If your create directory is `$HOME/parts`, but you would like to import a Pro/ENGINEER assembly into another directory by modifying the target path, perform subsequent Verify CADDS 5 TIM and Update CADDS 5 TIM operations on this assembly, and further view it in CADDS. Do the following after the import is complete:

- Insert this new directory as the first path in your `CVPATH`.

  Select **File Management** on the LDM screen. Choose **Include** Directory or use the CADDS ADD DIRECTORY command.

- Make this directory your create directory.

  Select this directory as Active Directory from the LDM screen or use the CADDS SELECT DIRECTORY command.

Assembly

Note the following points when converting a CADDS assembly with CADDS TIM parts to a Pro/ENGINEER assembly:

- After importing a Pro/ENGINEER assembly, do not add this TIM assembly to the current active assembly as a reference until the `exec` file is executed for the imported TIM assembly. Adding an assembly in this manner may not display the reference nodes immediately or may display the reference nodes without crosshatches. In such cases, trying to refresh an assembly is not recommended. Instead, exit the active assembly, run the `exec` file, and reactivate the previous assembly to add the assembly as a reference.

– Update of the Pro/ENGINEER TIM assembly may fail if the changes in the original CADDS assembly were only done to the parts and not to the assembly itself. In order to avoid this problem, temporarily add and remove a dummy component from the CADDS assembly before filing it.

Disk Space

– The system administrator must delete the `trail.txt.*` files from the `<eENGINEER_install_dir>/data` area on the server whenever this area is full.

Options to Install OrbixWeb Files

The following CADDS packages use Common Object Request Broker Architecture (CORBA):

- Workgroup Manager for CADDS
- Associative Topology Bus (ATB)
- EPD Enabled CADDS 5i

When installing the above packages, the Iona OrbixWeb 3.0 implementation of a CORBA 2.0 Object Request Broker (ORB) runtime environment is installed in the standard CADDS directory structure from the CADDS CD-ROM. The default installation correctly configures OrbixWeb for its use with CADDS. Users or sites that have an existing CORBA installation, however, may require the OrbixWeb configuration information explained in the following section, in the event of conflicts.

Configuring OrbixWeb 3.0 and Using OrbixWeb Commands

This section provides tips on configuring OrbixWeb and using OrbixWeb commands with EPD Enabled CADDS 5i, ATB Enabled CADDS 5i, and WorkGroup Manager for CADDS. For more information on OrbixWeb commands, refer to *Installing CADDS 5i*.

Prerequisites

You must source the `/usr/apl/cadds/data/orbixweb/setenvs.csh` script before using the OrbixWeb commands.

The OrbixWeb daemon must be running before you use the OrbixWeb commands. If not, an error message appears indicating that the OrbixWeb daemon is not running.

OrbixWeb Command	Usage
`pingit`	Reports whether the OrbixWeb daemon is running.
`psit`	Reports the active OrbixWeb server processes (actually running OrbixWeb server processes).
`lsit`	Reports the OrbixWeb server processes registered with OrbixWeb.
`catit`	Reports the Implementation Repository entry for the specified OrbixWeb server.
`killit`	In exceptional circumstances, use this command to terminate active OrbixWeb server processes of CADDS.

The following table lists the OrbixWeb server process names reported by the OrbixWeb commands `psit` and `lsit`.

Product	Server Process Name
EPD Enabled CADDS 5i	Cadds
ATB Enabled CADDS 5i	CaddsATB (corresponds to ATB Enabled CADDS 5i) ProEClient (corresponds to e/ENGINEER client)
WorkGroup Manager for CADDS	EPMCADDS5Server

Configuring the Port Number for OrbixWeb Server Processes of CADDS 5i

The OrbixWeb server processes of CADDS 5i are configured to run on specific ports, as listed in the following table. Use the `catit` command to obtain the port number.

Product	Server Process Name	Port Number
EPD Enabled CADDS 5i	Cadds	1240
ATB Enabled CADDS 5i	CaddsATB (corresponds to ATB Enabled CADDS 5i)	1241
	ProEClient (corresponds to e/ENGINEER client)	1245
WorkGroup Manager for CADDS	EPMCADDS5Server	Dynamically allocated by OrbixWeb according to settings in the OrbixWeb configuration files `/usr/apl/cadds/data/orbixweb/Orbix.cfg` and `/usr/apl/cadds/data/orbixweb/classes/OrbixWeb.properties` The dynamically allocated port numbers start at 2000 as configured by CADDS.

If any of the port numbers in the preceding table conflict with any other applications on your system, use the `putit` OrbixWeb command to change the port number for EPD Enabled CADDS 5i or ATB Enabled CADDS 5i.

To change the dynamically allocated port numbers, edit the `/usr/apl/cadds/data/orbixweb/Orbix.cfg` and `/usr/apl/cadds/data/orbixweb/classes/OrbixWeb.properties` files and change the value of the `IT_DAEMON_SERVER_BASE` setting. In CADDS, `IT_DAEMON_SERVER_BASE` is set to 2000 by default.

CADDS 5i Release 11 Windows NT Considerations

Installing CADDS on Windows NT

- This release of CADDS includes a new version of the X server (Exceed 6.2). Be sure to remove your previous version of the X server (if you are upgrading from an earlier release of CADDS), and install the new version of X server (Exceed 6.2) from the CADDS Windows NT CD-ROM.
- When you install the X server from the CADDS Windows NT CD-ROM, you are not prompted for the location to install Exceed. The installation process has been simplified to eliminate all the Exceed installation menus. The process is documented in *Installing CADDS 5i*.
- If you install the License Manager on Windows NT, system prompts appear for the following:
  - To install the License Manager as a service, select `Yes` to make your Windows NT workstation license server. If you are getting your licenses from another license server on the network, select `No`. You can then use the command `c:\CVswlm\epd\installswlm.bat` to install the License Manager as a service.
  - If you select `No` above, the system prompts you to set the `LM_LICENSE_FILE` variable. This variable defines an alternate location for the license file or allows you to specify a TCP/IP@host address for the license file. This is optional, because you can always install a copy of the server license file in `c:\CVswlm\epc\epd.lic`.
- If you select License Management, a FLEX*lm* icon is installed in the Services control panel. Use this icon to start and stop the License Manager.
- The `HOOPS_PICTURE` variable is now defined as a system environment variable. You no longer need to manually edit the Registry to add the definition to the current user setting.

Plotting

When you use PLOT DOT, only a single copy is plotted, regardless of the specified number of copies.

Graphics

Some CADDS commands may not repaint the graphics in the OpenGL mode on Windows NT with the Diamond Fire GL graphics board. Use the REPAINT command to repaint the graphics.

Using Network Drives

CADDS has been qualified with Samba version 2.03. Using a version other than 2.03 may cause unpredictable results. For example, you cannot file a part if you use Samba version 2.06.

CVNC

- The 5-axis SURFINT5 PCONTROL command is currently not available.
- The IN command in CVNC can cause a system failure.

Viewing CADDS HTML Documentation on Windows NT

On Windows NT, the HTML documentation is currently unavailable from within CADDS. You can, however, access the documentation using an HTML browser.

Japanese CADDS Software

Japanese CADDS software is currently not available on Windows NT.