Installation Guide

Bartrack 6.0

Prevas

Prevas AB
Box 1909
S-651 19 Karlstad
Sweden

Phone: +46 54 147400
Fax: +46 54 147499

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Contents

Introduction

General

This document explains how to install and upgrade Bartrack using AXP with OpenVMS operating system and how to install the client software on the PC clients using Windows NT and set up a web server for web client access. It includes:

- A description of preparation you must make before starting
- Server installation and upgrade
- Client installation and upgrade

This document is intended for anyone responsible for installing Bartrack on the AXP, PC clients and web clients.

This document should be reviewed before beginning the installation procedures.

This document assumes that you are familiar with the OpenVMS operating system and has knowledge about it as System Manager. A good knowledge of the Windows NT environment is also recommended.

Server Installation

General

This chapter describes how to install the Bartrack server software and how to configure it. Later on most action points will be taken care of by the VMSINSTAL routine.

For additional information on installing Bartrack refer to the OpenVMS system documentation on these topics:

VMSINSTAL procedure

System Management and Operations

Hardware and Software Requirements

See ref 1. Target Environment Specification

How to Install the Bartrack Server Software

Preparations

This section describes the preparation and requirements for installing the Bartrack server software.

Bartrack Disk Location

Identify the disks on which Bartrack is to be installed. The Bartrack system should be installed on a non-system disk.

Disk Backup

Before you begin, you should ensure that you have a good backup copy of the system disk and the disk on which Bartrack is to be installed.

Installation Procedure Requirements

Before you install the software, you must have the following:

- All privileges.
- A minimum of 150000 blocks of free space on the system disk and 800000 on the disk where Bartrack is to be installed.
- A minimum of 3000 free global pages.

- A minimum of 400 free global sections.
- An empty UIC group for the Bartrack system account.

User Account Privileges

User account privileges are stored in the file **SYSUAF.DAT**. Use the OpenVMS Authorize Utility to verify and change user account privileges. First, set your directory to **SYS$SYSTEM** and then run authorize:

```
$ SET DEFAULT SYS$SYSTEM
$ RUN AUTHORIZE
UAF>
```

At the **UAF>** prompt, use the **SHOW** command with an account name to check the account used for installation. For example to check privileges for the OpenVMS user SMITH:

```
UAF> SHOW SMITH
```

To change privileges, use the **MODIFY** command. For example:

```
UAF> MODIFY SMITH/PRIVILEGES=ALL
UAF> EXIT
```

After you exit from the utility, the system displays messages indicating whether or not changes were made. Once the changes have been made, you must log out and log in again for the new privileges to be made available.

For more information on modifying account privileges, refer to the description of the Authorize Utility in the OpenVMS System Management Utilities Reference Manual.

Disk Space Required

To see how many free blocks there are on the installation disk, use the SHOW DEVICE command. For example, to check the System Disk, enter the command:

```
$ SHOW DEVICE SYS$SYSDEVICE
```

The display will show information about the disk, including the number of free blocks. Repeat this command, substituting the appropriate disk device for the one on which Bartrack is to be installed.

Global Pages and Global Sections

To determine the number of available global pages and global sections on your system, invoke the OpenVMS Install Utility by typing the following commands:

```
$ INSTALL :== $INSTALL/COMMAND_MODE
$ INSTALL
INSTALL>
```

Then type the following command:

```
INSTALL> LIST/GLOBAL/SUMMARY
Summary of Memory Global Sections
nnn Global Sections Used,
nnnnnn/nnnnnn Global Pagelets Used/Unused
INSTALL> EXIT
```

When you issue these commands, the system displays the number of global sections used, global pages used and global pages unused. If fewer than 3,000 global pages are available the GBLPAGES system parameter must be increased.

To increase the number of global pages, edit the file **SYS$SYSTEM:MODPARAMS.DAT** and add the line:

```
ADD_GBLPAGES=n
```

Add at least the missing number (n) up to 3000. Then invoke the **AUTOGEN** command procedure **SYS$UPDATE:AUTOGEN.COM**.

For more information on the **AUTOGEN** command procedure, see your processor-specific installations/operations guide.

You can determine the number of available global sections by invoking the **SYSGEN** utility as follows;

```
$ RUN SYS$SYSTEM:SYSGEN
SYSGEN> USE CURRENT
SYSGEN> SHOW GBLSECTIONS
Parameter Name  Current  Default  Min.  Max.  Unit      Dynamic
--------------  -------  -------  ----  ----  ----      -------
GBLSECTIONS     2100     250      80    3276  Sections  D
SYSGEN> EXIT
```

The number displayed in the **CURRENT** column, is the current number of global sections. Compare this number to the number of global sections in use displayed by the OpenVMS Install Utility.

Bartrack requires 400 global sections. Therefore, if the number of global sections used plus 400 exceeds the current number of global sections, you must increase the number of available global sections before you can install Bartrack.

To increase the number, you must increase the **GBLSECTIONS** parameter with **SYSGEN** by editing the file **SYS$SYSTEM:MODPARAMS.DAT** and then invoking the **AUTOGEN** command procedure, **SYS$UPDATE:AUTOGEN.COM**.

To increase the number of global sections, add the following line to the file **SYS$SYSTEM:MODPARAMS.DAT**, where n is the number of global sections to add:

```
ADD_GBLSECTIONS=n
```

For more information on the **AUTOGEN** command procedure, see your processor-specific installation/operations guide.

If the number of global sections used plus 400 is less than the maximum number of global sections, you can exit from **SYSGEN** and continue.

Granularity Hints Parameters

Check the Granularity Hints region parameters. This is done by entering the following commands:

```
$ RUN SYS$SYSTEM:SYSGEN
SYSGEN> USE CURRENT
SYSGEN> SHOW GH
Parameter Name   Current   Default     Min.   Max.   Unit  Dynamic
--------------   -------   -------    -----  -----   ----  -------
GH_EXEC_CODE         512       512         0   2048   Pages  D
GH_EXEC_DATA         144       128         0   2048   Pages  D
GH_RES_CODE         2048       512         0   2048   Pages  D
GH_RES_DATA         1024         0         0   2048   Pages  D
GH_RSRVPGCNT          32         0         0   2048   Pages  D
If the CURRENT parameters are below the above required values change them:
SYSGEN> SET GH_EXEC_CODE 512
SYSGEN> SET GH_EXEC_DATA 144
       ---
       ---
SYSGEN> WRITE CURRENT
SYSGEN> EXIT
$
```

If the AUTOGEN facility is used you have to insert the following lines in **SYS$SYSTEM:MODPARAMS.DAT**:

```
MIN_GH_EXEC_CODE = 512 !Required by Bartrack
MIN_GH_EXEC_DATA = 144 !Required by Bartrack
MIN_GH_RES_CODE = 2048 !Required by Bartrack
MIN_GH_RES_DATA = 1024 !Required by Bartrack
MIN_GH_RSRVPGCNT = 32  !Required by Bartrack
```

Bartrack User Account UIC Group

This installation of Bartrack creates different numbers of accounts depending on if Bartrack is installed or not which require to be defined in an unused UIC group. Select this group prior to commencing the installation. (UIC group 31 is offered as default).

The Bartrack accounts are:

- **BAR** - the account used for administrating Bartrack
- **BAR_PRIM** - the account used for the PRIM process
- **BAR_SFT** - the account used for the test system processes
- **BAR_TRACY** - the account used for the Tracy process
- **BAR_SUBSC** - the account used for future use of PRIM
- **BAR_TIF** - the account used for the test system to file processes
- **SFQ** - the account used for Supervisor Surveillance processes

Install Bartrack

Follow this instruction to install the Bartrack software.

Step 1: Install the Bartrack Server Software With VMSINSTAL

The Bartrack software is installed by the **VMSINSTAL** utility. Prerequisites are the five Bartrack saveset files called **BAR060.A-BAR060.E**. These files are delivered on a CD.

Run the following commands and answer the installation questions put out by the installation procedure.

The following steps lead you through the installation procedure:

Task 1: Log in to a privileged account, set your default device and directory to **SYS$UPDATE** and enable all privileges:

```
$ SET HOST/LOG <bartrack_node>
$ Username: SYSTEM
$ Password:
$ SET PROCESS/PRIVILEGES=ALL
```

Task 2: Mount CD

Use the following command to mount the CD:

```
$ MOUNT /MEDIA_FORMAT=CDROM/OVERRIDE=IDENTIFICATION -
/UNDEFINED_FAT=(fixed:none:9216) <device>
```

If the saveset files have been in contact with MS Windows file system they are probably distorted and have the wrong record format. To solve this problem you have to copy the saveset files to the Alpha and the use the following command:

```
$ SET FILE/ATTRIBUTE=(RFM:FIX,LRL:9216) <kit-disk>BAR060.*
```

Task 3: Invoke **VMSINSTAL**

If **VMSINSTAL** detects any problems during the installation, it notifies you and asks if you want to continue. In some cases you can enter YES to continue. To stop the installation process, enter NO or press RETURN. Then correct the problem and restart the installation.

To invoke the installation, enter the following command:

```
$ @SYS$UPDATE:VMSINSTAL BAR060 <CD-root>:[kit]
```

In this example, **BAR060** is the name of the Bartrack saveset to be installed, and **kit** represents the name of the device on which you have mounted the distribution media.

The installation then continues with the following messages:

```
        OpenVMS AXP Software Product Installation Procedure V7.1-2
It is dd-mmm-yyyy at hh:mm.
Enter a question mark (?) at any time for help.
%VMSINSTAL-W-ACTIVE, The following processes are still active:
       PROCESS1
       PROCESS2
       -
       -

* Do you want to continue anyway [NO]? YES
* Are you satisfied with the backup of your system disk [YES]? YES
```

You should always back up your system disk before performing an installation. If you are satisfied with the backup of your system disk, press RETURN. Otherwise enter NO to discontinue the installation. After you have backed up your system disk, you can restart the installation.

Task 4: Mount the first installation kit volume.

You are asked to mount the first installation kit volume.

Please mount the first volume of the set on kit:

To indicate that you want to continue the installation, mount the installation kit volume, type YES, and then press RETURN.

```
* Are you ready? YES
%MOUNT-I-MOUNTED, BAR060 mounted on kit_dev:
The following products will be processed:
  Bartrack V5.0
        Beginning installation of Bartrack V5.0 at hh:mm
%VMSINSTAL-I-RESTORE, Restoring product save set A ...
```

If you entered the wrong device name when you invoked **VMSINSTAL** and need to restart the installation, enter NO in response to the question. To abort the installation for other reasons press CTRL/Y.

```
%VMSINSTAL-I-RELMOVED, Product's release notes have been
moved to SYS$HELP.
```

Note: This means that a text file called **BAR_060.RELEASE_NOTES** has been copied to the directory **SYS$HELP** where the latest release notes have been put.

Task 5: Indicate whether you want to purge files replaced during the installation.

During this installation, new files will be provided to replace existing versions. You may purge these older versions to save disk space, or keep them if you feel they may be of use. Purging is recommended.

```
* Do you want to purge files replaced by this installation
[YES]? YES
```

Task 6: Specify disk device for Bartrack program files.

You are asked for the root device on which the Bartrack program files are to be installed. Enter the device name and press RETURN.

*** Enter disk device for Bartrack program files directory(ies):** <bardisk>

The installation procedure checks at this point that there are sufficient free blocks on the disk entered to allow the installation.

Task 7: Specify disk device for database directories. Database files should not be placed on the same disk as the databases for performance reasons. Enter the device name and press RETURN. If you enter the same disk device as you have chosen for the Bartrack directories the installation procedure will not accept that and the question will come up again.

You will now be asked for disk device where to place your database files. Should NOT be the same disk device as you have chosen for your program files.

*** Enter disk device for database directory(ies):** <dbdisk>

Task 8: Specify disk device for AIJ directory. AIJ files must not be placed on the same disk as the databases for security reasons. Enter the device name and press RETURN. If you enter the same disk device as you have chosen for the Bartrack directories the installation procedure will not accept that and the question will come up again.

You will now be asked for disk device where to place your aij files. Should NOT be the same disk device as you have chosen for your databases or program files.

*** Enter disk device for AIJ directory(ies):** <aijdisk>

Task 9: You are now asked to type in the directory where the BmQ executable files reside. They are normally placed in a directory like:

<dmqdisk>:[DMQ$Vnn.EXE] where **nn** indicates the BmQ version number.

An example: **DISK$SYS01:[DMQ$V50.EXE]**.

*** Enter the directory where the BmQ executables reside, i.e., DISK1:[DMQ$V50.EXE]:** DISK$SYS02:[DMQ$V50.EXE]

Task 10: Enter the BmQ bus number. Every site has its own bus number and is specified in ref. 3, "DEC-Message-Queue addressing, within Ericsson production". The bus number must be between 100 and 999.

*** What is your BmQ bus number [000]:** 203

Task 11: Specify the trusted domains

This step is not necessary. Just press **<ENTER>**.

*** Specify trusted Windows NT domain(s):**

Task 12: Java usage

*** Will Java be used with Bartrack Y/N**

If N is answered skip the next two steps.

Task 13: Specify the number of RMI processes to start up in batch

This is number of processes that will be pre-started each time there are no RMI processes available.

*** Specify the number of RMI processes to start up in batch:**

Task 14: Create accounts for Bartrack

You will now be required to enter the UIC group for the Bartrack accounts.

*** Specify the Bartrack system group UIC (in octal) [31]:**

To accept the default UIC group, press RETURN. Otherwise enter an alternative UIC group (in octal) and press RETURN. It is strongly recommended to use the default UIC group 31 unless you have other products installed on the machine using that group.

This is the last question asked by the installation procedure.

Informational Messages.

After responding to the last prompt, the installation continues. The Bartrack installation procedure produces a number of informational messages that report on the progress of the installation.

```
The following message will end the information of the VMSINSTAL Procedure:
Installation of Bartrack V5.0 completed at hh:mm
    Adding history entry in VMI$ROOT:[SYSUPD]VMSINSTAL.HISTORY
     Creating installation data file: VMI$ROOT:[SYSUPD]BAR060.VMI_DATA
VMSINSTAL procedure done at hh:mm
```

Task 15: End of the installation procedure

VMSINSTAL deletes or changes entries in the process symbol tables during the installation. Therefore, if you are going to continue using the same account and want to restore those symbols, you should log out and log in again.

```
$ LOGOUT
```

```
SYSTEM logged out at dd-mmm-yyyy hh:mm:ss.ss
```

Changes to Your System

The following identifiers are added to the system:

Identifiers and their descriptions

Identifier	Description
BARTRACK_PC	This identifier grants a user to run Bartrack via the PC interface.
BARTRACK_VT	This identifier grants a user to run Bartrack via the VT interface.
BAR_DB_SUBSYSTEM	A protected subsystem identifier granting a Bartrack user accesses to the database **only** via the PC or VT interface.
BARTRACK_ADMIN	Identifier giving a user accesses to all Bartrack files and directories. To be granted to a Bartrack system manager.

Verify Installed Files

See ref 2, "Bartrack System Administrator Manual", for information of which files that should be found.

Step 2: Create the Bartrack Database

Login to the **BAR** account. The password comes in a separate document.

Go to the database creation directory with the command:

```
$ SET DEF BAR_DBCRE
```

Select the language for the privileges profile by edit the **DB_SDAT.SQL** file. Open the file in an editor, search after the insert statements for table **PRIVILEGE_PROFILE** and comment the not selected language statements.

Run the command:

```
$ @DB_CREATE
```

A number of informational messages will now be seen on the screen and after a while a message will tell you that the database is created.

The Bartrack database is created in the directory **BAR_DB**. The Bartrack database root file is named **BAR.RDB** and its snapshot file **BAR.SNP**. Some RDA-files with snapshot files are also created. These files should exist in the directory **BAR_DB** after database creation:

Contents in DISK_BARDBDIR:[DB]

File	Description
BAR.RDA;1	The main Bartrack tables
BAR.RDB;1	
BAR.SNP;1	Snapshot file of all main Bartrack tables
BARADM.RDA;1	Administrator tables
BARADM.SNP;1	Snapshot file of administrator tables
BARHIST.RDA;1	History tables
BARHIST.SNP;1	Snapshot file of history tables
BARIND.RDA;1	Individual tables
BARIND.SNP;1	Snapshot file of individual tables
BARSTRUCT.RDA;1	Individual structure tables
BARSTRUCT.SNP;1	Snapshot file of individual structure tables

Since OpenVMS backups of database files (only the OpenVMS backup of the Rdb backup files **<filename>.RBF** is useful) are useless, the following command should be issued in order to reduce the amount of backed up data:

```
$ SET FILE/NOBACKUP BAR_DB:*.*
```

N.B. If Rdb is configured for multiple version, then the following command must be set in the start-up file **BAR_COM:LOGIN** in order to attach to the database.

```
$ @SQL$SHARE:DECRDB$SETVER 7.0
```

Enable After Image Journaling on the Bartrack Database

The AIJ image journaling must be enabled in order to get the backup routines to work. Entering the following commands does this:

```
$ SET DEF BAR_DBCRE
$ @BAR_ADD_JOURNAL
```

After enabling the journaling these files should be found in **BAR_AIJ**:

```
Directory DISK_BARAIJ:[AIJ]
BAR_JNL1.AIJ;1      100008/100008  16-JAN-1998 12:37:35.40  [BAR]
BAR_JNL2.AIJ;1      100008/100008  16-JAN-1998 12:37:50.44  [BAR]
BAR_JNL3.AIJ;1      100008/100008  16-JAN-1998 12:38:04.77  [BAR]
Total of 3 files, 300024/300024 blocks.
```

If you want another original or extent size of the after image file edit the file **BAR_TOOL:BAR_ADD_JOURNAL.COM** and put in your preferences.

Enable Global Buffers

An Rdb database is working much faster if “global buffers” are enabled.

```
$ SQL
SQL> ALTER DATABASE FILENAME BAR_DB:BAR NUMBER OF BUFFERS IS 200;
SQL> ALTER DATABASE FILENAME BAR_DB:BAR GLOBAL BUFFERS ARE ENABLED
cont> (USER LIMIT IS 200, NUMBER IS 5000);
SQL> EXIT
```

In this case, the parameters may be altered. The number of buffers for each user is normally 200, and should not be changed.

The maximum number, 5000 in this case, allows for 25 concurrent users (5000 divided by 200). If you have more than 25 concurrent users, the maximum number should be increased in steps of 200 for each additional user.

Granting Access on the Bartrack Database

The Bartrack database must be granted to UIC [31,*] so that the standalone Bartrack processes can access it. If you have chosen another UIC than 31 for Bartrack then you should use that one instead. This is done by:

```
$ SQL
SQL> ATTACH 'FILENAME BAR_DB:BAR';
SQL> GRANT ALL ON DATABASE ALIAS RDB$DBHANDLE TO [31,*];
SQL> GRANT ALL ON DATABASE ALIAS RDB$DBHANDLE TO [BARTRACK_ADMIN];
SQL> COMMIT;
SQL> EXIT
```

Step 3: Enabling Protected Subsystems

To enable protected subsystems type:

```
$ SET PROCESS/PRIVILEGIES=SECURITY
$ SET VOLUME/SUBSYSTEM DISK_BARTRACK
```

Subsystems must only be active on the disk where the Bartrack executables reside, but can be active on all disks without any problems, which is by default.

Step 4: Creating the SFQ Database

Login to the SFQ account. The password comes in a separate document.

The SFQ database contains information about the processes that should be surveyed. If such a process dies for whatever reason, the SFQ process starts it again. To create it, does like this:

```
$ SET DEF SFQPS_DBCRE
$ @SFQ_DATABASE
$ @SSS_DATA
$ @SSS_PROC
$ @INS_SFQPS
```

Now it must be granted so that the surveyed processes can attach to it. Type:

```
$ SQL
SQL> ATTACH 'FILENAME SFQ_SSS_DB';
SQL> GRANT ALL ON DATABASE ALIAS RDB$DBHANDLE TO [31,*];
SQL> COMMIT;
SQL> EXIT
```

N.B. If you, when installing Bartrack, have chosen another UIC than the default offered 31, you must use that one in the previous command.

N.B. If Rdb is configured for multiple version then the following command must be set in the start-up files in order to attach to the database:

```
SFQPS_COM:LOGIN
SFQPS_COM:SSSSUPVR.COM
SFQPS_COM:SSSWDOGR.COM
@SQL$SHARE:SQL$SETVER 7.0
```

Step 5: How to Configure BEAmessageQueue

DMQ must be installed on the system. See the Installation Guide for BEAmessageQueue.

First of all the Bartrack BmQ group must be created, configured and finally started.

Create the Bartrack BmQ Group

To create the Bartrack BmQ group type the command:

```
$ @DMQDISK:[DMQ$VXX.EXE]DMQ$CREATE_GROUP YYY 3022
```

where:

DMQDISK	is the disk onto which BmQ is installed
XX	is the BmQ version (version 5.0 => XX = 50)
YYY	is the bus number

Configure the Bartrack BmQ Group

Step 2: Configure the Bartrack BmQ group

First of all the BmQ logicals names have to be set. This is done by typing:

```
$ @DMQDISK:[DMQ$VXX.EXE]DMQ$SET_LNM_TABLE YYY 3022
```

DMQDISK, **XX** and **YYY** are explained in the section above.

The Bartrack BmQ configuration file is put in the **BAR_COM** directory during the installation. Configure the file with the matching version of BmQ.

Copy this file to the right location by typing:

```
$ COPY BAR_COM:DMQ$INIT.TXT DMQ$USER:
```

To convert this **DMQ$INIT_FILE** for other versions, use **@DMQ$EXE:DMQ$CNV**.

Do not try to write a new file by yourself.

Start the Bartrack BmQ Group

To start the Bartrack BmQ group type:

```
$ @DMQ$EXE:DMQ$STARTUP XXX 3022
```

Verify the Bartrack BmQ Queues

Type:

```
$ DMQ
```

and you will see the BmQ main menu:

```
DECmessageQ for OpenVMS AXP V3.0A-22(3022)  EINKA1::  Bus:0200  Group:03022
      1    Run IVP
      2    Restart / Shutdown DMQ$COM_SERVER
      3    Run LLS_VERIFY
      4    Run LOOP
      5    Run MONITOR
      6    Run TEST
      7    Run MGR_UTILITY
      8    Run PSSVFY
      9    @CUSTOMIZE procedure
     10    Run LOADER
     11    Change Bus and Group numbers
     <CR>   Exit
     Enter Option Number:
```

Enter option number 5 and you will see the following screen:

```
  6000.203         DECmessageQ Monitor - Bus 200    30-JAN-1997 10:56:52.54
     D       Display queue counters         LS     Display link summary
     Q       Display queue quotas           LD     Display link detail
     T       COM Server status              LT     Display link connect table
     P       Queue specific status          GD     Display group detail
     R       Reset COM Server counters      C      Send X-Group connect
     K       Kill COM Server process        A      Set alternate group
     RT      Display routing table          E      Exit
                                              Enter option
```

Type D to display the queue counters and you will see:

```
  6000.203        DECmessageQ Monitor - Bus 200     30-JAN-1997 11:10:58.83
Copyright © Digital Equipment Corporation 1995. All rights reserved.
     D       Display queue counters         LS     Display link summary
     Q       Display queue quotas           LD     Display link detail
     T       COM Server status              LT     Display link connect table
     P       Queue specific status          GD     Display group detail
     R       Reset COM Server counters      C      Send X-Group connect
     K       Kill COM Server process        A      Set alternate group
     RT      Display routing table          E      Exit
                                Display all, declared or MRQ [A,D,M] [A]:
```

Select **<cr>** (=all) and you will see:

```
6000.205       DECmessageQ Monitor - Bus 200      30-JAN-1997 11:10:58.83
Copyright © Digital Equipment Corporation 1995. All rights reserved.
     D       Display queue counters         LS     Display link summary
     Q       Display queue quotas           LD     Display link detail
     T       COM Server status              LT     Display link connect table
     P       Queue specific status          GD     Display group detail
     R       Reset COM Server counters      C      Send X-Group connect
     K       Kill COM Server process        A      Set alternate group
     RT      Display routing table          E      Exit
                                    Enter queue number to start from:
```

Just type **<return>** and you will finally see all queues:

```
  3022.286          DECmessageQ Monitor - Bus 205        15-JAN-1998 17:15:12.20
 QUEUE                 SENT  RCVD  PEND     QUEUE                 SENT  RCVD  PEND
BAR_BAR_LOG_01    1      8  8347     0   COM_SERVER        100   1082  9999     0
BAR_TST_UPD_01    2      3     0     0   DMQ_LOADER        150      0     0     0
BAR_TST_STR_01    3      2     0     0   DCL_BY_Q_NAME     151      0     0     0
BAR_TST_SHP_01    4   9999  9999     0   TCPIP_LD          152      0     0     0
BAR_TST_TIF_01    5    168     0     0   DECNET_LD         153      2     1     0
T95_BAR_01        6      0     0     0   RESERVED_LD       154      0     0     0
SBS_ETH_CONTROL  74      0     0     0   EVENT_LOGGER      155      0    20     0
SBS_ETH_CHAN1    75      0     0     0   JRN_SERVER        156      1     0     0
SBS_ETH_CHAN2    76      0     0     0   MRS_FAILOVER      157      0     0     0
SPARE1           90      0     0     0   DMQ_FULLTEST_PQ   191      0     0     0
ALL_UCBS         91      0     0     0   DMQ_FULLTEST_SQ   192      0     0     0
TIMER_QUEUE      92      0     0     0   EXAMPLE_Q_1       193      0     0     0
NULL             93      0     0     0   EXAMPLE_Q_2       194      0     0     0
INTERNAL1        94      0     0     0   IVP_UNOWNED_SQ    195      0     0     0
QTRANSFER_SERVE  95      0     0     0   +EINBJTU          286      1     0     0
```

```
DEAD_LETTER_QUE  96      0     0     0
MRS_SERVER       98   9999  9999     0
SBS_SERVER       99      5   541     0
                                        <CR> to continue, (C) for continuous
```

The first six queues must exist:

- **BAR_BAR_LOG_01**
- **BAR_TST_UPD_01**
- **BAR_TST_STR_01**
- **BAR_TST_SHP_01**
- **BAR_TST_IDI_01**
- **BAR_TST_TIF_01**

For information of owning processes and purposes, see ref 2, "Bartrack System Administrator Manual".

Step 6: Invoke the Bartrack Start and Stop Files

After having installed Bartrack the start-up file has been generated and one shutdown file copied to the system.

The command:

$ @SYS$STARTUP:BARTRACK_STARTUP.COM

has to be invoked in the site start-up file in order to start-up Bartrack automatically after a reboot.

The command:

$ @SYS$STARTUP:BARTRACK_SHUTDOWN.COM

has to be invoked in the site shutdown file in order to shutdown Bartrack correctly.

Step 7: Enabling the Bartrack Symbol to Everyone

Enabling the Bartrack symbol for everyone is done by inserting the line:

$ BARTRACK :== @BAR_COM:BARTRACK

In the file **SYS$STARTUP:SYLOGIN.COM**.

Step 8: Mail-to-Tracy

The interface is used to send information to and from Tracy by using mail and FTP. The method is primary for non-Ericsson Bartrack users.

The software is delivered in the file **M2T.BCK** located in the **BAR_TOOL** directory

Installation Procedure

Contact BCT and inform them that M2T shall be used

The Tracy M2T server must be configured before the M2T interface will work, and they must know the receiving mail address, for example M2T@yourcompany.com.

Any subscriptions must be changed if they already exist

Task 1: Check that SMTP mail is enabled on the server:

```
EIN_KHVMS1> ucx show server SMTP
Service              Port  Proto    Process          Address            State
SMTP                   25  TCP      TCPIP$SMTP       0.0.0.0            Enabled
```

Make sure that the line for SMTP says "Enabled", if not, consult the installation instructions from Compaq on how to enable SMTP.

Task 2: Extract the saveset into an empty directory:

```
$ BACKUP/LOG BAR_TOOL:M2T.BCK/SAVE DISK_BARTRACK:[M2T]
```

Task 3: Edit the installation command file, and then save it:

```
$ EDIT DISK_BARTRACK:[M2T]BAR_M2T_INSTALL.COM
```

You have to specify where the files should be copied, among other things. The file contains instructions on what to modify.

Task 4: Run the install command:

```
$ @DISK_BARTRACK:[M2T]BAR_M2T_INSTALL.COM
```

The install file will do the following:

- Create a VMS account for "DELIVER" named M2T.
- Set forward in mail to **DELIVER%M2T** for user **M2T**:
- Create directories
- Move the files to the right directory
- Run the file **M2T_STARTUP.COM**

Task 5: Change user and factory code settings:

Check user to receive mail (**BAR_USER**) and factory code (**M2T_FACTORY_CODE**) in the beginning of the files **BAR_COLLECT_TRACYDATA.COM**, **BAR_COLLECT_Y_TRACYDATA.COM** and **M2T_RESEND.COM**.

Task 6: Add these two rows to the Bartrack start-up file:

```
$ EDIT SYS$STARTUP:BARTRACK_STARTUP.COM
```

```
$ @DISK_BARTRACK:[M2T.COM]M2T_STARTUP STOP_QUEUES
$ @DISK_BARTRACK:[M2T.COM]M2T_STARTUP START_QUEUES
```

Task 7: Append text to file **BAR_CHECK_BATCH.COM**:

There are rows in the file **BAR_CHECK_BATCH_PART.COM**, indicated by question marks, that must be edited.

The following tasks are performed after the testing is ready.

Task 8: Add the user M2T to Bartrack:

The user must be added using SQL, since the user must be "Not removable" to be able to write to the Alarm log.

```
SQL> INSERT INTO BT_USER
     VALUES ('M2T','M2T User','N','1','EN','N','N','Y','');
```

Task 9: Set version limit:

The version limit on the file **M2T_COM:DELIVER.LOG** should be set to 20:

```
$ SET FILE/VERS=20 M2T_COM:DELIVER.LOG
```

Configuration of the Mail System

The configuration depends on the environment, but the following way can be used if there exists one mail server that administrates all incoming and outgoing mails.

The mails from M2T are sent to a local mail account called M2T. The mail server then forwards these mails to *m2t@npbcg1.ericsson.se*.

The incoming mails from *m2t@npbcg1.ericsson.se* and *t2m@npbcg1.ericsson.se* are sent to the local mail address and then forwarded to the M2T account on the Bartrack server.

To configure this, 3 rules must be defined in the server:

All mail from *m2t@yourcompany.com* (Bartrack server) forwarded to *m2t@npbcg1.ericsson.se*

All mail from *m2t@npbcg1.ericsson.se* forwarded to *m2t@yourcompany.com*.

All mail from *t2m@npbcg1.ericsson.se* forwarded to *m2t@yourcompany.com*.

Testing

In order not to affect the production, the directory **BAR_TCY_OUT_DIR** can be defined locally to somewhere else to test B and S records and also Y-request.

If there is a running production system, the test must be done with great care.

Troubleshooting

If there is a problem loading Y and X records, the page file quota can be to small for the user **M2T**.

The protection on directories **BAR_TCY_ERRORIN_DIR**, **BAR_TCY_ERROROUT_DIR**, **BAR_TCY_TEMPIN_DIR**, **BAR_TCY_TEMPOUT_DIR**, **BAR_TCY_SAVEIN_DIR** and **BAR_TCY_SAVEOUT_DIR** must allow user **M2T** to read and write on these directories.

Included Files

This is a list of all included M2T files in the Bartrack installation.

Installed files

File	Description
BAR_COLLECT_TRACYDATA.COM	Collect the files with B and S records from Bartrack and send them to Tracy
BAR_COLLECT_Y_TRACYDATA.COM	Collect the files with Y-records from Bartrack and send them to Tracy
BAR_CHECK_BATCH_PART.COM	Lines to be appended to BAR_CHECK_BATCH.COM
BAR_M2T_INSTALL.COM	Install the M2T
M2T_STARTUP.COM	Definition of logical names for M2T
BAR_READ_ERR_BS.COM	Handle errors of BS records
BAR_READ_IERR_Y.COM	Handle errors of Y records
BAR_READ_INF_Y.COM	Handle Y records
BAR_READ_OK_BS.COM	Handle B and S records
BAR_READ_REQ_X.COM	Handle subscription and X-records

DELIVER_MAILSHR.ALPHA_EXE	Image to handle DELIVER
DELIVER_STARTUP.COM	Start-up file for DELIVER
M2T_LOGIN.COM	Login file for the M2T account
MAIL.DELIVERY	Define actions for incoming mail
SUB_BAR_READ_ERR_BS.COM	Receive the mail and start the defined action
SUB_BAR_READ_IERR_Y.COM	Receive the mail and start the defined action
SUB_BAR_READ_INF_Y.COM	Receive the mail and start the defined action
SUB_BAR_READ_OK_BS.COM	Receive the mail and start the defined action
SUB_BAR_READ_REQ_X.COM	Receive the mail and start the defined action
MFTU.EXE	Program to encode/decode the ZIP file to readable ASCII chars.
TRACY.FDL	FDL file to create fixed 100 char. record length on files.
UNZIP.AXP_EXE	UNZIP for AXP. Decompress the file
ZIP.AXP_EX	ZIP for AXP. Compress the file

Verify the Installation

Step 9: Verify the Start and Stop Files

You must be logged in on the BAR account to run these files. To shutdown the system type the command:

```
$ @SYS$STARTUP:BARTRACK_SHUTDOWN
```

The Bartrack processes will now be stopped. This can take a minute or two because some processes may be in the state hibernate.

To verify that the system has been shutdown type:

```
$ SHOWBAR
```

If the **SHOWBAR** symbol is not available, you have to define it:

```
$ SHOWBAR :== @SFQPS_COM:CHECK_SYS
```

When you use **SHOWBAR** you should see something like this:

```
OpenVMS V6.2-1H3  on node EINKA2  12-FEB-1997 08:55:33.07  Uptime  57 21:12:52
  Pid    Process Name    State  Pri      I/O       CPU       Page flts  Pages
BAR ------------------------------------------------------------------------
%SEARCH-I-NOMATCHES, no strings matched
------------------------------------------------------------------------
```

To start up Bartrack again type the command:

```
$ @SYS$STARTUP:BARTRACK_STARTUP
```

Check that no errors occur during start-up and all processes start-up properly.

To check that the system is running type the command:

```
$ SHOWBAR
```

Check that all the following processes are running:

```
OpenVMS V6.2-1H3  on node EINKA5  15-JAN-1998 14:15:44.44  Uptime  27 05:45:42
  Pid    Process Name    State  Pri      I/O       CPU       Page flts  Pages
BAR ------------------------------------------------------------------------
0000085D BAR_SFT_UPD     LEF      6   103193   0 00:00:49.00   1806963    107
```

```
0000056B SFQ_SSSWDOG     LEF      6   467169   0 00:00:10.94      4131     42
0000056C BAR_LOGGING     LEF      6   233698   0 00:00:18.12   7362334     86
0000056D BAR_CSR_ACW     HIB      6  2393079   0 00:22:26.41   8363402    305
0000056E BAR_SFT_STR     LEF      6   233308   0 00:00:19.36    951509    105
00000570 BAR_SFT_SHIP    LEF      6   233308   0 00:00:12.93    707933    105
00000575 SFQ_SSSSUPV     LEF      4  1877765   0 00:02:35.54     37675     42
------------------------------------------------------------------------------
```

Step 10: Reboot the Machine

In order to install the resident images the machine has to be rebooted. This is done by typing:

```
$ @SYS$SYSTEM:SHUTDOWN
```

The reboot option should be standalone.

Start the Bartrack Processes

To check that the system is running type the command:

```
$ SHOWBAR
```

Reminder: Before the Bartrack system can be started DmQ has to be installed, configured and started up according to section 0 on page 17.

N.B. If the Bartrack system is started manually (not during a reboot of the machine) this must be made from the account BAR, otherwise it will not work.

The Bartrack system is started by the command:

```
$ @SYS$STARTUP:BARTRACK_STARTUP
```

Step 11: Verify the Backups of the Database

When starting Bartrack a batch queue is created named **BAR_BACKUP_QUEUE**. To verify that the batch jobs are scheduled properly type the following command to display the Bartrack batch jobs:

```
$ SHOW QUEUE BAR_BACKUP_QUEUE/FULL/ALL
```

and a list like the following should be displayed:

```
Batch queue BAR_BACKUP_QUEUE, idle, on EINKA5::  <Bartrack backup batch queue>
  /BASE_PRIORITY=4 /JOB_LIMIT=1 /OWNER=[BAR] /PROTECTION=(S:M,O:D,G:R,W:S)
  Entry  Jobname         Username             Status
  -----  -------         --------             ------
     45  BACKUP$MANAGER  BAR                  Holding until  1-AUG-1997 00:05:00
         Submitted 31-JUL-1997 00:05:00.17 /KEEP
         /LOG=$1$DKA200:[BARTRACK.P1E.][LOG]BACKUP$MANAGER_EINKA5.LOG; /NOPRINT
         /PRIORITY=100
         File: _$1$DKA200:[BARTRACK.P1E.COM]BARBCK2.COM;1
```

The backup batch jobs are by default scheduled directly after midnight (00:05)

If you want to change this time you have to edit the file **BAR_COM:BARBCK2.COM** which backs up the Bartrack database. Change the line:

```
/AFTER="TOMORROW+00:05" -
```

to that time you want to make your backups. For instance, if you want the backups to be performed at 03:00 you should change the line to:

```
/AFTER="TOMORROW+03:00" -
```

To verify that the backup jobs are performed properly and you do not want to wait until midnight it is possible to release the batch jobs immediately by typing:

```
$ SET ENTRY XXX/RELEASE
```

where **XXX** is the entry number obtained by the **SHOW QUEUE** command. After doing this you have to wait approximately 10 minutes to be able to see the result. If everything is working all right you will find the backup files in the **BAR_BACKUP** directory.

In the **BAR_BACKUP** directory you should find the file named **BAR_YYMMDD.RBF** where **YYMMDD** indicates the date of the backup.

After each backup a mail is being sent to the user **BAR**, so if you log in to that account and read the mails you can see if the backups were successfully performed or not.

Step 12: Verify the Bartrack Processes Batch Jobs

Type the command:

```
$ SHOW QUEUE BAR_PROCESS/FULL/ALL
```

and a list like the following should be displayed:

```
Batch queue BAR_PROCESS, available, on NYERA4::   <Bartrack processes batch queue>
  /BASE_PRIORITY=4 /JOB_LIMIT=5 /OWNER=[BAR] /PROTECTION=(S:M,O:D,G:R,W:S)
  Entry  Jobname         Username             Status
  -----  -------         --------             ------
    263  BAR_BATCH       BAR                  Holding until 17-JAN-1998 00:00:00
         Submitted 16-JAN-1998 00:05:00.90 /KEEP
         /LOG=NYERA4$DKB600:[BARTRACK.R1B.][LOG]BAR_BATCH.LOG; /NOPRINT
         /PRIORITY=100
         File: _NYERA4$DKB600:[BARTRACK.R1B.TOOL]BAR_BATCH.COM;8
    294  BAR_DBI         BAR                  Holding until 17-JAN-1998 02:00:00
         Submitted 16-JAN-1998 08:39:24.40 /KEEP
         /LOG=NYERA4$DKB600:[BARTRACK.R1B.][LOG]BAR_DBI.LOG; /NOPRINT
         /PRIORITY=100
         File: _NYERA4$DKB600:[BARTRACK.R1B.TOOL]BAR_DBI.COM;7
```

For a description of the batch jobs, see ref 2, "Bartrack System Administrator Manual".

Step 13: Check AIJ Directories

The Bartrack **AIJ** files reside in the directory **BAR_AIJ**.

The logical name **BAR_AIJ** points at **DISK_BARAIJ:[AIJ]**.

Step 14: Check Bartrack Logical Names

See ref 2, "Bartrack System Administrator Manual".

Step 15: Check Bartrack Account Settings

Every PC account must have its corresponding account on the server. A typical account looks in the **SYSUAF.DAT** file like:

```
Username: BARKURS1                        Owner:  BARTRACK KURS
Account:  BARKURS                         UIC:    [200,1] ([BARKURS,BARKURS1])
CLI:      DCL                             Tables: DCLTABLES
Default:  USER$B:[BARKURS1]
LGICMD:   LOGIN
Flags:
Primary days:   Mon Tue Wed Thu Fri
Secondary days:                 Sat Sun
```

```
No access restrictions
Expiration:            (none)     Pwdminimum:  6   Login Fails:     0
Pwdlifetime:         90 00:00     Pwdchange:  22-MAY-1997 15:09
Last Login:  2-JUL-1997 11:03 (interactive), 17-JUN-1997 15:59 (non-interactive)
Maxjobs:          0  Fillm:       100  Bytlm:         64000
Maxacctjobs:      0  Shrfillm:      0  Pbytlm:            0
Maxdetach:        0  BIOlm:       150  JTquota:        4096
Prclm:            8  DIOlm:       150  WSdef:          2000
Prio:             4  ASTlm:       250  WSquo:          4000
Queprio:          0  TQElm:        10  WSextent:      16384
CPU:         (none)  Enqlm:      2000  Pgflquo:      500000
Authorized Privileges:
  NETMBX    TMPMBX
Default Privileges:
  NETMBX    TMPMBX
Identifier                      Value           Attributes
  BARTRACK_VT                   %X8001002C
  BARTRACK_PC                   %X8001002B
```

A Bartrack user running the PC interface must be granted the identifier **BARTRACK_PC** and a user running the VT interface must be granted the identifier **BARTRACK_VT**. This is done by:

```
$ MC AUTHORIZE
UAF> GRANT/ID BARTRACK_PC <userid>
UAF> EXIT
$
```

Upgrade the Server

An upgrade of a Bartrack system is done like an ordinary installation. The software of the new version is to be situated beside the current version in the **DISK:[BARTRACK…]** directory tree.

To convert the Bartrack database, it is only possible to convert one version at each step, e.g. from R4A to R5A. SQL-scripts are delivered one for each step.

Prerequisites

A normal installation of the new version of Bartrack, but without the creation of a new Bartrack database.

Preparations

Close the Bartrack system for users by change the logical name **BAR_DOOR**.
```
$ DEFINE/SYSTEM/EXECUTIVE_MODE BAR_DOOR CLOSE
```

Stop the Bartrack system:

```
$ @SYS$STARTUP:BARTRACK_SHUTDOWN
```

Check that a backup of the system is made.

Make a backup of the Bartrack database.

It is a recommended to save the file **SYS$STARTUP:BARTRACK_STARTUP.COM**. Because this file might have been changed during time. Those changes will be gone if the files are purged and then there is no way back.

Also check for special entries applicable to the factory.

Some logical names “goodies” that is necessary information at installation time:

```
DISK_BARTRACK
DISK_BARDBDIR
DISK_AIJ
DMQ$EXE
```

Upgrade Bartrack

VMSINSTAL Procedure

Follow the **VMSINSTAL** instructions in "Step 1: Install the Bartrack Server Software With VMSINSTAL".

Truncate the Snapshot Files

If the snapshot files have grown excessively in size, it could be wise to truncate them. This is done in the following way:

```
$ SQL
SQL> ALTER DATABASE FILENAME BDB
cont>ALTER STORAGE AREA RDB$SYSTEM
cont>SNAPSHOT ALLOCATION IS 100 PAGES;
SQL> ALTER DATABASE FILENAME BDB
cont>ALTER STORAGE AREA BAR_ADM
cont>SNAPSHOT ALLOCATION IS 100 PAGES;
SQL> ALTER DATABASE FILENAME BDB
cont>ALTER STORAGE AREA BAR_HIST
cont>SNAPSHOT ALLOCATION IS 100 PAGES;
SQL> ALTER DATABASE FILENAME BDB
cont>ALTER STORAGE AREA BAR_IND
cont>SNAPSHOT ALLOCATION IS 100 PAGES;
SQL> ALTER DATABASE FILENAME BDB
cont>ALTER STORAGE AREA BAR_STRUCT
cont>SNAPSHOT ALLOCATION IS 100 PAGES;
SQL> EXIT
$
```

Convert the Database

Convert the database from the previous version to the to the new version

Convert From R5A Version

If you have version R5A then you should use the following command to upgrade from R5A to 6.0:

```
$SQL
$SQL> @BAR_DBCRE:DB_ALTER_R5A_TO_R5A_1.SQL
$SQL> @BAR_DBCRE:DB_ALTER_R5A_1_TO_R5A_2.SQL
$SQL> @BAR_DBCRE:DB_ALTER_R5A_2_TO_060.SQL
```

Find Previous Bartrack Version

If you have several version of Bartrack installed, a parallel directory structure exists, where all the files for each Bartrack version can be found.

Use the following commands to find out where to find the different versions of Bartrack files.

```
$ SHOW LOG DISK_BARTRACK
  "DISK_BARTRACK" = "DISK$USER00:[BARTRACK.R5A.]"
  (LNM$SYSTEM_TABLE)
$ DIR DISK$USER00:[BARTRACK]
Directory DISK$USER00:[BARTRACK]
R5A.DIR;1                1/9       10-AUG-1999 15:15:58.24
060.DIR;1                1/9       23-NOV-2002 12:43:35.12
```

File Copy From Old Version

There are some files that must be copied from the old version directories.

Copy Files in BAR_TOOL

Compare the directory listing of the old **BAR_TOOL** directory:

```
$ DIR <disk>:[BARTRACK.R4C.TOOL]*.*
```

With the listing of the new version's **BAR_TOOL**:

```
$ DIR BAR_TOOL
```

Copy all the **BAR_TOOL** files in the previous version to the new version. The files in this directory contain specific site configuration, for instance the parameters for Bartrack and Tracy communication.

Compare the old files with the new ones and either update the new files with the old configuration or update the old file with the new commands.

All commands dealing with Tracy communication are updated in this version. There is also a new command called Bartrack Scrapping Utility.

In "Find Previous Bartrack Version" on page 28, it is described how to find the previous version files.

Copy Files in BAR_COM

Compare the directory listing of the old **BAR_COM** directory:

```
$ DIR <disk>:[BARTRACK.R5A.COM]*.*
```

With the listing of the new version's **BAR_COM**:

```
$ DIR BAR_COM
```

Copy all the **BAR_COM** files in the previous version to the new version. The files in this directory contain specific site configuration.

Compare the old files with the new ones and either update the new files with the old configuration or update the old file with the new commands.

In "Find Previous Bartrack Version" on page 28, it is described how to find the previous version files.

Copy and Modify Label Files

Copy the label files from the previous installation of Bartrack to the new **BAR_LABEL_DIR** directory.

```
$ COPY <disk>:[BARTRACK.R5A.TMP.LABEL]*.* BAR_LABEL_DIR
$ COPY <disk>:[BARTRACK.R5A.LLM]*.* BAR_LAYOUT_DIR
$ COPY <disk>:[BARTRACK.R5A.TMP.REPORT]*.* BAR_REPORT_DIR
```

Some of the field markers in the label files have been changed to this version.

This is a list of changes. Search for the old name and replace it with the new name:

Old markers and new markers in label files

Old marker name	New marker name
BARSER	BARID
PDFSER	PDFID
MANWEEK	MANYYWWW
BARMANWEEK	BARMANYYWWW
PDFMANWEEK	PDFMANYYWWW
FACTORY	PREFIX
BARPROD	BARPRODNO
PDFPROD	PDFPRODNO
BARREV	Not available. Nothing will be printed.
PDFREV	Not available. Nothing will be printed.
BARNAME	BARPRODNAME
PDFNAME	PDFPRODNAME

TEXTa	TEXTx
SSNa	ADDNOx
BARSSNa	BARADDNOx

Due to changes in the Ericsson standard, there is no ANSI prefix for R-state and The BARREV and the PDFREV markers has been disabled. If you find a label containing these markers, please notify the label responsible on the site.

Copy Tracy Files

Check that all Tracy-files was handled. If not copy them to the new version.

Verifying

Open the Bartrack system for the users.

```
$ DEFINE/SYSTEM/EXEC BAR_DOOR OPEN
```

Follow steps 9-15 in "Verify the Installation" on page 22.

Web Server Installation

Web Server Location

It is recommended that the web server is physically located near the site where it is going to be used.

If the network connection between the web server and the web client is too slow, there will be performance problems.

Configure Web Server

Copy the Files to Web Server

The file **BAR_CLIENT:BARTRACK_WEB.EXE** located on the server is a self-extracting zip-file. Copy this file to a Windows NT Environment. Run and unzip this file and save them into the Bartrack directory on the web server.

The following files should now exist in the web server directory.

```
Bartrack.jar
BartrackClient.jar
BartrackHelp.jar
bcrBean.jar
bcrJava.jar
bartrack.html
prevas.policy
policykey
PolicyInstaller.exe
com/prevas/bcr/bcr.properties
```

Configuring Bartrack.html and Bartrack.jnlp

Edit the **Bartrack.html** and/or the **Bartrack.jnlp** file (using Notepad, for example). The Bartrack server node name must be entered. This node name must also be known by the DNS. There are also some web paths that needs to be set for the site.

Use the ping command on the client to check if the server is available from the client using the command prompt:

```
C:\>ping <server name>
```

Configuring index2.html

Edit the **index2.html** file (using Notepad, for example). The value "Starta" must be changed to "Start" for english installations.

Configure the bcr.properties

This file is used to configure the communication settings for the serial port connected scanner. Note that the settings should match between the communication configuration of the scanner, the serial port and this file.

This file is the default bcr.properties file for all users. At first use this file is copied to the client and the user can then configure the file for special needs.

There are several parameters to set. See into the file for more information.

Configure the Web Server

The web server must be configured according to factory's security policy. see documentation for the web server on how to configure the web server.

The **`Bartrack.html`** and/or the **`Bartrack.jnlp`** file which start the Bartrack-session must be adapted to the site settings. The files **`Bartrack.html`** and **`Bartrack.jnlp`** are delivered as templates.

Links must be set to the **`Bartrack.html`** on the local Intranet.

Web Client Installation

Bartrack Web Client

The Web Client for Bartrack is started from a Web browser according to ref. 1. Target Environment Specification.

Java Plug-in

The client need to have the Java Runtime Environment (JRE) installed locally. The JRE installation program is delivered with Bartrack. It is also available as a freeware on Sun's website on the following Internet link: http://java.sun.com/products/jdk/1.3/jre/

This can be done in three ways:

- **Manuel installation**
  Run the installation program for JRE on all PC's that will use Bartrack web client. This must be done with administrators privileges on the PC.
- **Automatic installation first time running**
  Configure the bartrack.html file to automatically install first time running the Bartrack web client. The installation program must be located on the Bartrack web server, appointed by bartrack.html. This requires that the user have administrators privileges on the PC.
- **Local script for program installation**
  Use some existing local scripting utility for installation of programs

The user that install the JRE must be an administrator on the PC.

Security-file

The Bartrack web client is actually a Java applet and it needs to have write access on the client's local disk for caching files. Normally, Java applets are not allowed to write on local disks for security reasons. To give the Bartrack web client permission to do this, and no other Java applet, all files on the web server is signed with Prevas signature. To configure the PC for this, a set-up applet, called PolicyInstaller is delivered and located on the web server. This program should be run and the address to the actual web server should be entered.

The PolicyInstaller must be executed after the JRE have been installed. The PolicyInstaller adds a line to the java.security file located in the program directory for JRE on the client.

The setting of this path is automatic (if the **`PolicyInstaller.html`** file on the web server is configured correctly), and an information dialog is shown if everything is fine. If, for some reason, the path is not set automatically, the following dialog is displayed:

Enter the Bartrack web server directory where the file **`prevas.policy`** reside and click on **<OK>**.

Bartrack Java Web Start

The Web Client for Bartrack can also be started from a third party software called Java Web Start. This software is used to launch a Java application in its own window, rather than using a web browser window.

Installing Java Web Start

When you have performed the steps in "Configure Web Server" on page 31 you can continue with this section.

This is how you install Java Web Start on a client:

1. Open the **`index2.html`** file in your web browser. It should be accessible from the web server.
2. Click on **<Start>**.

   If JRE is not installed, it will be installed.

   If Java Web Start is not installed, it will be installed.

   Bartrack will start.

From Java Web Start it is possible to add a Bartrack icon or a Java Web Start icon to the desktop. From these icons it is possible to start Bartrack without starting a web browser in the future.

Un-installation of Bartrack

Server Un-installation

The following steps shall be performed to remove Bartrack from a server:

1. Stop all Bartrack processes:
2. `@SYS$STARTUP:BARTRACK_SHUTDOWN.COM`
3. Execute the command file `UNBARTRACK.COM`
   This file is not delivered together with Bartrack. Please consult the Prevas support for this file.
4. Reboot the system

References

1. Target Environment Specification, KS001f05/en
2. Bartrack System Administrator Manual, KS001b02/en
3. DEC-Message-Queue addressing, within Ericsson production
   http://mqcc.ericsson.se/addressi.htm

Glossary of Terms

M2T	Mail-to-Tracy, an interface using mail to communicate with Ericsson's traceability system Tracy.
BmQ	BEAmessageQ – Message oriented middleware from BEA Systems. The same as DmQ.
DEC	Digital Equipment Corporation
DECforms	Tool for developing and running UI applications on VT terminals
DmQ	DECmessageQ – Message oriented middleware from BEA Systems. The same as BmQ.
EDI	Electronic Data Interchange – A common protocol, used by Bartrack to exchange data with Tracy
MRQ	Multi-Reader Queue. A special DmQ queue allowing several readers.
OBB	ObjectBroker – Middleware from BEA Systems, used by Bartrack to communicate with the PC-clients
Rdb	Oracle Rdb – Relational database used by Bartrack
RMI	Remote Method Interface. This is a communication feature used by Java and the web browser.
SFQ	Shop Floor Quality - The collection of Prevas software products for manufacturing
SFQPS	SFQ Process Surveillance - Bartracks surveillance utility
SPU	SFQ Primgate Utility - A subscription utility
Tracy	Ericsson’s global traceability database where all individuals produced and delivered are stored
AIJ	After Image Journaling. A method of journaling all transactions in a database in a separate journal file. With a database backup file and the after image journal file a database can be restored if the original database file gets corrupted.

Lists

List of Tables