

# ***TEAM 521A***

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**Release Notes, Version 4.0.0 for HPOV - SUN Solaris & HPUX**  
058R966-V400, Issue 1 - July 2001

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## Section 1 - Solaris

### 1.0 Overview - TEAM SC 521A for Solaris

These installation and release notes provide new information relevant to this version of the TEAM SC521A software product. This updates the information supplied by the **TEAM 521A Operation Manual**.

TEAM 521A is now supported on Solaris 2.8 with HPOV 6.1 To install this platform, refer to the TEAM Core Operation Manual and the TEAM Core Release Notes. For additional product information and the latest updates, contact your GDC field representative or check the GDC website at <http://www.gdc.com>.

### 2.0 Software Reference

The following table provides detailed reference information for all software modules relevant to TEAM 521A for Solaris installation. Throughout this document short forms of the software product names will be used.

**Table 1: TEAM 521A Software Reference for Solaris**

Item	Part Number	Version
TEAM 521A or TEAM 521A/S Software Products	058U734-C01	Ver 4.0.0 or higher
TEAM 521A Operation Manual	076R154-V400 or higher	Issue 1 or higher
TEAM 5520 Operation Manual	058R727-V400 or higher	Issue 1 or higher
TEAMCORE Software Product	058U737-C01	Ver 4.1.0 or higher
TEAMCORE Operation Manual	058R720-V400	Ver 4.0.0 or higher
TEAMCORE Release Notes	058R957-V410	Ver 4.1.0 or higher
Solaris Software Product	S-058U019-C01	Ver 2.7 / Nov 1999
	S-058U020-001	Ver 2.8 / Feb 2000 (Ver A)
HPOV for Solaris Software Product	058U157-C01	Enterprise (Full) Ver 6.1
	058U157-C02	250-node (Entry) Ver 6.1
Solaris/HPOV Patch Clusters	Ref: Sun / HPOV websites	
HPOV Network Node Mgr. Inst. Guide	HP J1136-9000	
SC 521A Firmware Version 03.00.00	Version C- or higher	MIB Version 1.00V
SC 521A/S Firmware Version 05.00.00	Version E- or higher	MIB Version 1.00V
SCM for SpectraComm products	Version 5.20 or higher	MIB Version 3.10F
NMS 510 Firmware	Version P- or higher	MIB Version 1.00A
NMS 520 Firmware	Version P- or higher	MIB Version 1.00K
DDS MIB	Version 1.00E	

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**Note:** *IMPORTANT - It is highly recommended that the customer download and install the latest SOLARIS PATCH CLUSTER from the following Sun web site: <http://sunsolve.sun.com>. This will ensure that you have updated the Operating System along with any current fixes to reported problems.*

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**Note:** *IMPORTANT - It is highly recommended that the customer download and install the latest HP OPENVIEW CONSOLIDATED PATCH CLUSTER from the following HP web site: <http://ovweb.external.hp.com/cpe/patches>. This will ensure that you have updated HP OpenView along with any current fixes to reported problems.*

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### 3.0 Improvements Since Last Release

TEAM 521A has been tested to be Year 2000 Compliant in accordance to GDC ENG-STD-003. This version of TEAM 521A differs from the previous releases as follows:

- Approval for operation on Solaris 2.7, Solaris 2.8, HP OpenView 6.1 and HPUX 11.0 upgrades.
- Addition of the SC 521A/S product which provides Simplex Current.
- The SC 521A and the SC 521A/S can be managed as remote units of the SC 5520 DSE through TEAM 5520 Version 4.0.0 or higher.

### 4.0 Corrected Issues

After a network test, the unit remained in Test mode until the DTE raises the RTS signal. With this release, test mode is terminated at the end of the network test.

### 5.0 Hardware Requirements

- Minimum disk space requirements:  
    /opt           45 megabytes
- The graphics card should support a resolution of 1152x900
- SUN ULTRA 5 or greater with a minimum of 96 megabytes of RAM
- 2 gigabytes of hard disk space with 350 megabytes free disk space and 192 megabytes of swap space
- SCM (SpectraComm Manager) Card
- SC521A Card
- CD ROM

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**Note:** 96 megabytes of RAM is sufficient to support 1 or 2 users logged into the workstation, running individual OpenView Windows sessions. Reduced performance can occur with additional users accessing the workstation for remote login. To avoid problems, increase RAM based on the expected number of simultaneous users and on the number of TEAM applications in use. Allow 25 megabytes of RAM for each additional user, and 3 megabytes for each TEAM application. You should also adjust swap space to be approximately twice the size of the RAM.

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**Note:** For information on hardware requirements for HP OpenView Network Node Manager products, refer to the HP OpenView Network Node Manager Products Installation Guide.

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## 6.0 First Time Installation

Before attempting to install TEAM 521A, it is necessary to first install the TEAM Core software. The TEAM Core contains applications common to all TEAM products including shelf discovery, shelf map, and agent configuration. Once the TEAM Core software is installed, the TEAM 521A applications can be installed, as follows:

1. Make sure that all users exit HP OpenView for Solaris.
2. Insert the TEAM 521A Compact Disk into the CD ROM drive.
3. At a shell prompt, become super-user by entering the following command:

```
su root
```

4. Type `/opt/OV/bin/ovstop` to stop HP OpenView.
5. Start the installation process by entering the following commands:

```
cd /cdrom/cdrom0/solaris
```

6. If a version of the TEAM 521A is already resident on the workstation, or if you are not sure, enter the following command before installing the new version:

```
./remove.sh
```

Ignore any warning messages that may appear on the monitor and answer **y** for the questions.

7. Continue the installation process by entering the following command:

```
./install.sh
```

8. Answer **y** for the questions. The loading of software will take a few minutes.
9. Type `/opt/OV/bin/ovstart` to start HP OpenView.
10. Exit super-user (type **exit**).
11. Remove the CD from the CD ROM drive.
12. Start HP Openview by typing: `ovw &`

## 7.0 Re-Installation

To re-install TEAM 521A software, perform all the De-Installation steps in the procedure below. Then perform completely the First Time Installation procedures described above.

## 8.0 De-Installation

The following procedure describes de-installation of all TEAM 521A packages.

1. Make sure that Have all users exit HP OpenView for Solaris.
2. Insert the TEAM 521A CD into the CD ROM drive.
3. At a shell prompt, become super-user.
4. Type `/opt/OV/bin/ovstop` to stop HP OpenView.
5. Start the removal process by entering the following command:

```
cd /cdrom/cdrom0/solaris  
./remove.sh
```

6. Type `/opt/OV/bin/ovstart` to start all HP OpenView.
7. Exit super-user (type `exit`).
8. Remove the CD from the CD ROM drive.



## 9.0 Operating Guidelines

- Do not use **Team Universe map -> Configuration menu -> Firmware Download** to upgrade SC521A firmware which is less than Version A-. Instead, use TFTP to download firmware versions.
- In the Diagnostic Options Configuration window, when the RDL Initiation Sequence is set to **GDC**, the DSU will only command NMS510 or NMS520 units into a remote loopback.
- The Network Delay diagnostic test is not supported.
- Add Remote by Auto Discovery is not supported. Remotes can be added manually via the **Configuration Options -> Add Remote** window for multi-point circuits.
- The keyboard **Num Lock** or **Caps Lock** key if pressed (On) will make the mouse buttons and scroll bars inoperable.
- If an X-TERMINAL is being run on a server, its shelf map will not be automatically updated when a new SpectraComm card is added to the shelf. The X-TERMINAL map is not updated because the map is read-only. To update the map you must select **Map->Refresh Map** from the shelf map menu bar. This procedure will also close all submaps.
- Read-only maps will not be automatically updated. Use **Map->Refresh Map** to update the maps.
- After an install of TEAM software or a reboot of the system TEAM applications may take up to one minute to start up. This is due to the loading of shared libraries.
- The main configuration window may hide behind its child windows. Just move the child windows to view the main configuration window.
- The Navigate menu may appear gray when main configuration window is first opened. Moving the mouse pointer through the window will un-gray the Navigate menu item.
- The main configuration window may hide behind the shelf submap when the user saves a configuration to a 521A or when the user refreshed the configuration..
- The SC 521A network configuration option **Sentry Timer** is not applicable for a point-to-point DDS 2 line with a NMS 510 remote.
- The SC 521A DTE configuration option **Data Rate Adaption** is not applicable for any data rate above 2400 bps async.
- Occasionally when a user adds a remote unit, the sub element submap cuts off the display of the remote network element. Stretch the submap to display both network elements.
- A typographical error in the NMS 520 Alarm Mask screen shows **DTR Loss** appearing twice; the instance at the top of the screen should be **DTP Loss**.
- You cannot pass user data while loading or activating new firmware in an SC 521A DSU that serves as multipoint master.



## Section 2 - HPUX

### 1.0 Overview - TEAM SC 521A for HPUX

These installation and release notes provide new information relevant to this version of the TEAM SC521A software product. This updates the information supplied by the **TEAM 521A Operation Manual**. For additional product information and the latest updates, contact your GDC field representative or check the GDC website at <http://www.gdc.com>.

TEAM 521A is now supported on HPUX 11.0 with HPOV 6.1 To install this platform, refer to the HPOV Network Node Manager Installation Guide and the TEAM Core Release Notes.

### 2.0 Software Reference

Table 2-1 provides a detailed description of all software modules relevant to TEAM 521A for Solaris installation. Throughout this manual, short forms of the software product names will be used. Note that although the listed requirement is for HP OpenView 5.0.1, this version of TEAM 521A can function with the previous version (HP OpenView 4.1.1) as a minimum requirement.

**Table 2-2: TEAM 521A Software Reference for HPUX**

Item	Part Number	Version / Release
TEAM 521A or TEAM 521A/S Software Products	058U734-C01	Ver 4.0.0 or higher
TEAM 521A Operation Manual	076R154-V400 or higher	Issue 1 or higher
TEAM 5520 Operation Manual	058R727-V400 or higher	Issue 1 or higher
TEAMCORE Software Product	058U737-C01	Ver 4.1.0 or higher
TEAMCORE Operation Manual	058R720-V400	Ver 4.0.0 or higher
TEAMCORE Release Notes	058R957-V410	Ver 4.1.0 or higher
HP OpenView NNM		Release 6.1
HPUX		Ver 11.0 November 1999
HPOV and HPUX Patches		Ref: HPOV website
HPOV Network Node Manager Installation Guide		HP J1136-9000
SC 521A Firmware Version 03.00.00	Version C- or higher	MIB Version 1.00V
SC 521A/S Firmware Version 05.00.00	Version E- or higher	MIB Version 1.00V
SCM for SpectraComm products	Version 5.20 or higher	MIB Version 3.10F
NMS 510 Firmware	Version P- or higher	MIB Version 1.00A
NMS 520 Firmware	Version P- or higher	MIB Version 1.00K
DDS MIB		Version 1.00E

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**Note:** *IMPORTANT - It is highly recommended that the customer download and install the latest HP OPENVIEW CONSOLIDATED PATCH CLUSTER from the following HP web site: <http://ovweb.external.hp.com/cpe/patches>. This will ensure that you have updated HP OpenView along with any current fixes to reported problems.*

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**Note:** *IMPORTANT - It is the customer's responsibility to install the listed HP software and patches, and to ensure they are fully operational before loading the GDC TEAM applications. Refer to the HP website for updates to the HPUX Operating System.*

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### 3.0 Improvements Since Last Release

TEAM 521A has been tested to be Year 2000 Compliant in accordance to GDC ENG-STD-003. This version of TEAM 521A differs from the previous releases as follows:

- Approval for operation on Solaris 2.7, Solaris 2.8, HP OpenView 6.1 and HPUX 11.0 upgrades.
- Addition of the SC 521A/S product which provides Simplex Current.
- The SC 521A and the SC 521A/S can be managed as remote units of the SC 5520 DSE through TEAM 5520 Version 4.0.0 or higher.

### 4.0 Corrected Issues

After a network test, the unit remained in Test mode until the DTE raises the RTS signal. With this release, test mode is terminated at the end of the network test.

### 5.0 Hardware Requirements

The current hardware requirements for TEAM SC521A software is as follows:

- Minimum disk space requirements:  
    /opt                                   45 megabytes
- HP 9000 series model 700 or greater
- Minimum of 96 megabytes of RAM and 2 gigabytes of hard disk space and 500 megabytes of swap space
- SCM Card
- SC521A Card
- CD ROM

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**Note:** *For information on hardware requirements for HP OpenView Network Node Manager products, refer to the HP OpenView Network Node Manager Products Installation Guide.*

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## 6.0 Installation of TEAM 521A

Before attempting to install TEAM 521A, it is necessary to first install the TEAM Core software. The TEAM Core contains applications common to all TEAM products including shelf discovery, shelf map, and agent configuration. Once the TEAM Core software is installed, the TEAM 521A applications can be installed, as described below:

1. Close all HP OpenView and TEAM application windows (if applicable).
  2. Have all users exit HP OpenView for HPUX.
  3. If TEAM Core was removed or if the installed version of TEAM Core does not support the new TEAM 521A software, install the new TEAM Core according to the installation procedures in the TEAM Core release notes.
  4. Insert the TEAM 521A Compact Disk into the CD ROM drive.
  5. At a shell prompt, become super-user by entering the following command:
6. Check to make sure there is a `/cdrom` directory already present in `/` and create it if there is not.
  7. Start the installation process by entering the following commands:

```
su root
```

```
cdsh
mount /dev/dsk/c0t2d0 /cdrom
cd /cdrom/HPUX
./INSTALL*
```

The install script will automatically stop HP OpenView background processes by running `/opt/OV/bin/ovstop`.

Files will be extracted from CD to hard disk, an operation that will take a few minutes.

The script then automatically runs `swinstall`, which displays a graphical user interface for installing the TEAM 521A software. The window title bar will read "SD Install - Software Selection". Use the following procedure:

- A. Select **GDC\_APPS** from the window's scroll-down list box and double click on it. Note that the version number displayed for GDC\_APPS is always OV3.0.0.
- B. In the resulting list of the individual TEAM applications extracted from the CD ROM, highlight the TEAM 521A application to be installed.
- C. Select **Actions->Mark for Install**.
- D. Select **Actions->Install (analysis)**.
- E. Select **OK** in the "Install Analysis" dialog box to proceed.
- F. Select **Yes** in the "Confirmation" popup to continue with the installation.
- G. Ignore the error pop-up "\$HOME..sw/sessions/swinstall.last" by selecting **OK**.
- H. Installation of the TEAM 521A software will now begin.

- I. Select **Done** in the “Install Window” dialog box when the process is complete. This is evidenced when **Done** becomes un-grayed.
- J. At the end, select **File->Exit** in the main “SD Install” window.

You can confirm that the correct versions of software have been installed by typing in the command `/usr/sbin/swlist GDC_APPS`. The response is a display listing all the GDC software packages installed on the workstation, with their version numbers.

The script will automatically run `/opt/OV/bin/ovstart` to start HP OpenView background processes.

8. Unmount the CD ROM by typing the commands

```
cd /  
umount /cdrom  
exit
```

9. Remove the CD. Confirm that HP OpenView and the TEAM processes are running by typing the command:

```
/opt/OV/bin/ovstatus
```

10. If all processes are running OK, log out from root (i.e. **exit**).
11. Exit super-user (type **exit**).
12. As a user, type **cs**h to run the c shell, thereby setting the required environment variables.
13. To start HP OpenView, type:

```
ovw &
```

## 7.0 De-Installation

To remove TEAM 521A software:

1. Make sure that all users exit HP OpenView for HPUX.
2. Insert the TEAM 521A CD into the CD ROM drive.
3. At a shell prompt, become super-user by typing

```
su root
```

4. Start the removal process by entering the following commands:

```
cs  
mount /dev/dsk/c0t2d0 /cdrom  
cd /cdrom/HPUX  
./REMOVE*
```

5. The remove script will automatically run `/opt/OV/bin/ovstop` to stop HP OpenView background processes. It then starts `swremove`, which displays a graphical user interface that you can use to remove existing TEAM 521A software. The window will have "SD Remove - Software Selection" in its title bar. Use the following procedure:
  - A. Select **GDC\_APPS** from the window's scroll-down list box and double click on it.
  - B. In the resulting list of the individual TEAM applications installed on the workstation, highlight the existing TEAM 521A application.
  - C. Select **Actions->Mark for Remove**.
  - D. Select **Actions->Remove (analysis)**.
  - E. Select **OK** in the "Remove Analysis" dialog box to proceed.
  - F. Select **Yes** in the "Confirmation" popup to continue with the removal.
  - G. Ignore the error popup "\$HOME..sw/sessions/swremove.last" by selecting **OK**.
  - H. Removal of the TEAM 521A software will now begin.
  - I. Select **Done** in the "Remove Window" dialog box when the process is complete. This is evidenced when Done becomes un-grayed.
  - J. At the end select **File->Exit** in the main "SD Remove" window.
6. The remove script will automatically run `/opt/OV/bin/ovstart` to start HP OpenView.
7. Unmount the CD ROM by typing the command

```
cd /  
umount /cdrom  
exit
```
8. Remove the CD and exit super-user (type **exit**).

## 8.0 Operating Guidelines

- Do not use **Team Universe map -> Configuration menu -> Firmware Download** to upgrade SC521A firmware which is less than Version A-. Instead, use TFTP to download firmware versions.
- In the Diagnostic Options Configuration window, when the RDL Initiation Sequence is set to **GDC**, the DSU will only command NMS510 or NMS520 units into a remote loopback.
- The Network Delay diagnostic test is not supported.
- Add Remote by Auto discovery is not supported. Remotes can be added manually via the **Configuration Options -> Add Remote** window for multi-point circuits.
- The keyboard **Num Lock or Caps Lock** key if pressed (On) will make the mouse buttons and scroll bars inoperable.
- If an X-TERMINAL is being run on a server, its shelf map will not be automatically updated when a new 521A SpectraComm card is added to the shelf. The X-TERMINAL map is not updated because the map is read-only. To update the map you must select **Map->Refresh Map** from the shelf map menu bar. This procedure will also close all submaps.
- Read-only Maps will not be automatically updated. Use **Map->Refresh Map** to update the maps.
- TEAM applications may take up to one minute to start up after an install of TEAM software or a reboot of the system. This is due to the loading of shared libraries.
- The main configuration window may hide behind its child windows. Just move the child windows to view the main configuration window.
- The Navigate menu sometimes is gray when main configuration window is first opened. Moving the mouse pointer through the window will ungray the Navigate menu.
- The main configuration window may hide behind the shelf submap when the user saves a configuration to a 521A or when the user refreshed the configuration.
- During a configuration File->Save to Template function to an existing template, a warning popup may be displayed behind the File menu. Either stretch the popup warning window or click its Help button twice to display the warning.
- Various window text may be displayed in white instead of black.
- The SC 521A network configuration option **Sentry Timer** is not applicable for a point to point DDS 2 line with a NMS 510 remote.
- The SC 521A DTE configuration option Data Rate Adaption is not applicable for any data rate above 2400 bps async.
- Occasionally when a user adds a remote unit, the sub element submap cuts off the display of the remote network element. Stretch the submap to display both network elements.
- A typographical error in the NMS 520 Alarm Mask screen shows **DTR Loss** appearing twice. The instance at the top of the screen should be **DTP Loss**.



- You cannot pass user data while loading or activating new firmware in an SC 521A DSU that serves as multipoint master.
- If you are attempting to install TEAM 521A packages on a workstation where TEAM 521 has been previously installed, the HPUX Install Analyzer will display an error message that you are about to overwrite a newer version of software with an older version. This refers to versions of the NMS 510 and NMS 520 packages which are common to both TEAM products.

To ensure the software integrity of both TEAM packages, perform the following steps before installing the TEAM 521A software:

- A. At the Install Analyzer error message window, click Cancel.
- B. Go to the Options pulldown menu and select the option:  
**Allow installation of lower version than current.**
- C. Click **OK**.
- D. Resume installation of the TEAM 521A packages.





