

RELEASE NOTES

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NOTE THE RADAR 24 PROCESSOR UPGRADE ALERT IN THE HARDWARE REQUIREMENTS SECTION

(ON RADAR USE THE  KEY TO SCROLL DOWN)

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RADAR® VERSION 3.40

Welcome to RADAR® Version 3.40! Please take a few moments to review the Release Notes to view what's new in Version 3.40.

RADAR® PDF VIEWER NAVIGATION KEYSTROKES

Use the  and  arrows on your keyboard to scroll through; use the  key to go to RADARView™.

ACTION	KC24	SESSION CONTROLLER
Start Viewer		 or 
Start Viewer with focus on find Control (for searching)	None	 + 
Return to RADARView™	 (to highlight iZ logo), then press  (Play) or mouse click iZ logo	 or Track Arm 
Change Focus (Bookmarks -> Text -> Bookmarks)	 or  + 	
Change items in Bookmarks	 or 	 or 
Change Views (Bookmarks ->Page Num -> None)	 +  ,  +  ,  + 	Track Arm  ,  , and 
Expand Bookmark	 + 	
Collapse Bookmark	 + 	
Zoom in viewer	 + 	 or  or Track Arm 
Zoom out viewer	 + 	 or  or Track Arm 
Forward 10 pages	None	 (Fast Forward) or Track Arm 
Back 10 pages	None	 (Rewind) or Track Arm 

ACTION	KC24	SESSION CONTROLLER
Scroll page forward	↓	↓
Scroll page backward	↑	↑
Next Page	MARK OUT	▶ (Play) or Track Arm 10
Previous Page	MARK IN	■ (Stop) or Track Arm 11
Last Page	None	SHIFT + ▶▶ (Fast Forward) or Track Arm 9
First Page	None	SHIFT + ◀◀ (Rewind) or Track Arm 6
Back in page History	ALT + ◀	Track Arm 12
Forward in Page History	ALT + ▶	Track Arm 13
Fit to page width	ALT + SHIFT + SHUTTLE	Track Arm 14
Fit to page	ALT + ENTER TIME	Track Arm 15
Rotate document clockwise	None	Track Arm 16
Rotate document counter clockwise	None	Track Arm 17
Focus on Find Control	REDO	Qwerty Keys or Track Arm 20
Focus on Goto Page Control	REDO	Numeric Keys or Track Arm 22
Find – Search	ENTER	ENTER or Track Arm 21
Find – Search Again	ALT + F	ENTER or Track Arm 21
About Dialog	None	Track Arm 23
Goto Page	ALT + G	ENTER
Dismiss dialogs or popup messages	▶ (Play) (with focus)	CANCEL

IMPORTANT NOTICES

DON'T USE RADAR BWAV DRIVES WITH OLD RADAR® SOFTWARE

Audio drives formatted as **RADAR BWAV** are not compatible with RADAR® I, RADAR® II, or RADAR® 24 units running software versions below 3.35.



You will lose audio if you mount a RADAR BWAV drive using an earlier version of RADAR® software.

DON'T WRITE TO RADAR BWAV DRIVES USING NON-RADAR SOFTWARE

You **may** mount/unmount RADAR BWAV audio drives in systems running MacOS, Unix, Windows, Linux, etc, to browse directories and copy files or folders **from** the RADAR BWAV drive **to** the other system and then subsequently use the RADAR BWAV drive in RADAR® without risk of RADAR® recorded data loss or corruption.



However, if you do any of the following to RADAR BWAV disks in another system, **you risk loss or corruption of RADAR® recorded data:**

- Mount/Unmount RADAR BWAV disks that had been clones in a RADAR® recorded dual disk session and subsequently attempt to mount them as a cloned pair in RADAR®. These disks, having been mounted in another system, are no longer clones. Attempted subsequent Dual Disk use in RADAR® of such disks may cause data loss or corruption.
- Write files into any directory on a RADAR BWAV drive while mounted on another system.
- Delete, rename, or modify any existing files or folders on a RADAR BWAV disk or modify the disk in any way using another system. These operations may only be done in RADAR®.

SOME BACKUPS CANNOT BE RESTORED WITH OLD RADAR SOFTWARE

Backups of audio drives formatted as RADAR BWAV can only be *restored* on **pre-3.40** software if you do a **DSET(LEGACY)** type of backup (although the audio files from BWAV backups can be *imported* using version 3.30 or later). Backups of audio drives formatted as **!RADAR!** (32, 64 or 128K clusters) always use the legacy format and can be restored using any version of RADAR® software.

CANNOT RADARLINK TO UNITS RUNNING OLD RADAR SOFTWARE

RADAR® units running version 3.40 software can only be RADARLinked with other RADAR® units running 3.40 software. In addition, RADAR® units equipped with an Adrenaline® Plus card (e.g. RADAR® V) can only be RADARLinked with other units that have an Adrenaline® Plus card installed.

HARDWARE REQUIREMENTS FOR VERSION 3.40

Before you upgrade to version 3.40, check that your RADAR® unit has up-to-date hardware as outlined below. If you attempt to do the upgrade without sufficient hardware, you will receive the message:

V3.40 REQUIRES HARDWARE UPDATES

When you press **ENTER** you will receive messages indicating what hardware is required, and a warning that the 3.40 software was not installed. For example:

MIN CPU: 800 MHZ
MIN RAM: 384 MB
MIN ARCHIVE:70GB
SW NOT INSTALLED

If you receive any of these messages during the upgrade, press **ENTER**, and RADAR® will start up using your existing version of software.

RADAR 24 PROCESSOR UPGRADE ALERT

iZ Technology has done a final lifetime purchase of **1 GHz Pentium III** processors for RADAR® 24. A minimum 800 MHz processor is required for Version 3.30 software and up, but further upgrade to these Pentium III processors is highly recommended to ensure compatibility with future software releases

Version 3.40 requires a **processor rated at a minimum of 800 MHz**. You can determine your RADAR®'s processor speed by watching closely as it boots up. When the Energy Star logo appears in the top right corner of the screen, look for a line that says something similar to:

INTEL® CELERON™ CPU at 667MHz

If the processor speed is below 800 MHz (as in the example above), you need to upgrade before installing the 3.40 software. If you see something similar to either:

INTEL® CELERON™ CPU at 800MHz or PENTIUM III CPU at 800EB MHz

then you have an 800 MHz processor. While this is adequate for Version 3.40, we recommend upgrading to the 1 GHz (1000 MHz) Pentium III processor now while it is still available.

If you see:

Main Processor: Intel Celeron™ 1 GHz (100x10.0)

then you have a 1 GHz Celeron processor. Again, this is adequate for Version 3.40, but we recommend upgrading to the 1 GHz Pentium III processor as it out-performs the Celeron.

If you are currently running 3.38 or later software, you can also determine the processor speed by going to the “CPU SPEED” entry in the SYSTEM INFO menu. Note that the speed measured here may differ slightly from the rated speed.

RADAR 24 SYSTEM DRIVE UPGRADE ALERT



To run version 3.40, your RADAR® unit must have a minimum 80 GB system drive with an Archive partition.

If your RADAR® was built prior to March 21, 2002, you may need to upgrade your system drive before installing version 3.40. To check your Archive partition size, go to the **SYSTEM INFO** menu, and press the  until you see **PRIMARY MASTER: ARCHIVE**, or go to the browser (**FILE MANAGEMENT** dialog or **SHIFT+B**) and look for the **D:ARCHIVE** drive.

MEMORY

Version 3.40 requires a **minimum of 384 MB of host memory** (RAM). The amount of memory is displayed during boot up in the same area as the processor information. If you see:

Memory Test: 393216 K OK

then you have the required 384 MB of memory. You can also determine your RADAR®'s memory by going to the **SYSTEM MENU**, selecting **SYSTEM INFO**, and then using the  key to scroll down to the **INSTALLED RAM** menu. If you see a value less than 393216 Kbytes, you need to add memory before installing the 3.40 software.



Note that the maximum amount of memory that may be installed in RADAR® is 768 MB.

SYSTEM DRIVE RIBBON CABLE

If you will be burning CD-R or DVD-R disks using a multi drive, an 80-wire ribbon cable is required for both the IDE system drive and the DVD multi drive. If your RADAR® was built prior to February 25, 2003, you may need to upgrade your cabling before burning disks.

REQUIREMENTS FOR THE ADRENALINE[®] PLUS CARD

MEMORY

The Adrenaline[®] Plus card requires 768 MB of host memory (RAM). Note that 768 MB is the maximum amount of memory that may be installed in RADAR[®].

AUDIO DRIVE

If you have an Adrenaline[®] Plus card installed and plan to use the **24 TRACKS AT 192 KHZ** mode, you must use an iZ audio drive that is capable of handling the high throughput of audio data.

HIGH SAMPLE RATE PROJECTS

Audio recorded at sample rates above 48 KHz is handled differently by the Adrenaline[®] Plus card. To convert existing high sample rate projects to this mode, export them (before installing the Adrenaline[®] Plus card) to a temporary folder on the system drive (or to any drive of your choice). Then, after installing the card, import the projects to an iZ approved high performance audio drive.

INSTALLING VERSION 3.40 SOFTWARE ON YOUR RADAR[®]



Before you begin the upgrade, make sure you have a **backup of current sessions**. This is a standard precaution. If you are installing an Adrenaline[®] Plus card with the software upgrade and you have projects at sample rates above 48 KHz, you will need to **export** these projects so that they can be converted to the Adrenaline[®] Plus mode after installation. You may also need to upgrade your memory, audio drive, and/or system drive (see above).

After upgrading your RADAR[®], you can mount audio drives from old versions of RADAR[®] software, and they will automatically be upgraded to 3.40. This will work for any RADAR[®]24 or RADAR[®]V drive, and also with drives from RADAR[®]II Version 2.20 or later. If a drive is to be loaded from a RADAR[®]II unit running older software you must first choose **UPGRADE SYSTEM** from the **SYSTEM MENU** on the RADAR[®] II to prepare the drive.

If you decide to revert to an earlier version of software, after installing version 3.40, you must select the **INSTALL PREV VER** option in the **DIAGNOSTICS MENU**. This will give you a list of all software versions that you have previously installed, or you can select **OTHER** to install from floppy, CD, etc.



Audio drives formatted as **AUDIO:RADAR BWAV** are not compatible with RADAR® units running software versions below 3.35. **You will lose audio** if you mount a RADAR BWAV drive in an earlier version of software. You can still initialize a drive as **AUDIO:!RADAR!** to record in the traditional RADAR® format and **MAKE PORTABLE** when un-mounting it. Then it can be used in any software version.

Since version 3.40 is not a free upgrade, you cannot download it directly from the iZ web site. You must obtain the 3.40 software CD. If you are currently running version 3.38 or later, follow the instructions below. If you are currently running older software, go to the section titled **UPDATING FROM VERSION 3.37 OR EARLIER**.

UPGRADING FROM VERSION 3.38 OR LATER

- 1 Select **UPDATE SOFTWARE** from the **SYSTEM MENU**, then choose from the following options:
 - **B:DVD** If you have a 3.40 software CD, and your RADAR® unit is equipped with a DVD multi-drive, insert the CD in the drive.
 - **FTP** If you are transferring the 3.40 software upgrade from your PC or Mac computer, transfer the zip file **RADAR24_v3.40.0_net.zip** via FTP to the **/boot/Install** directory on RADAR®.



You may see **InstallCurrent** and **InstallPrevious** directories under the boot directory but you must transfer the software into the **Install** folder.

- 2 Press **ENTER**, then answer **YES** to the **INSTALL VER 3.40** prompt. RADAR® will automatically unmount your audio drive in preparation for the upgrade. If the drive was formatted as RADAR BWAV, the message: **DON'T USE A BWAV DISK PRE-335** will appear. This does not mean that anything is wrong; it is a warning not to take this disk and load it in a RADAR® unit running a software version older than 3.35. If you load a BWAV disk in a RADAR® unit running an earlier version of software, the disk can become corrupted.
- 3 Power off RADAR® and reboot.
- 4 When RADAR® has finished rebooting, the iZ logo will appear on the screen with a message below it. If the message says: **V3.40 REQUIRES HARDWARE UPDATES**, refer to the **HARDWARE REQUIREMENTS** section of these release notes. If your RADAR® unit meets the requirements, the message will be:

**INSTALL RADAR 24
V3.40? ENTR/CNCL**

If you do not want to proceed with the upgrade, press **CANCEL**. If you press **ENTER**, RADAR® will begin reading the software from the CD, and the message will change to:

INSTALLING RADAR V3.40 DISK 1

When RADAR® is finished installing from the disk, it will start up in the new version.

- 5 Check the date and time in the window near the top left corner of the **RADARView™** screen. If they are incorrect, go to the **SET TIME & DATE** option in the **SYSTEM MENU** to update.

UPGRADING FROM VERSION 3.37 OR EARLIER

You can install version 3.40 if you currently have **Version 3.30 or later** installed. If are currently running a software version prior to 3.30, contact iZ Technical Support for installation instructions.

RADAR® install software can be transferred via CD, FTP over a network, or FTP from a PC or Mac computer using an Ethernet cross-over cable. Check the requirements below to see which method is best for you.

INSTALL FROM CD

You must have ALL the following requirements in place in order for this type of install to be successful:

CD INSTALL REQUIREMENTS

- **R24CDNET** software loader upgrade (if you have not installed it yet). See the install procedure below for details.
- CD or DVD multi-drive installed in your RADAR®.
- RADAR® Software Install CD. If you obtained the actual CD from iZ Technology or your local dealer, proceed to the CD Install Procedure. If you downloaded the CD image from www.izcorp.com see below for how to make the CD using your PC or Mac computer:

EQUIPMENT NEEDED TO MAKE A RADAR® SOFTWARE INSTALL CD

- PC or Mac computer with CD burner installed.
- CD burning software (do not use the native OSX or XP burning).
- Blank CD-R.
- Zipped CD image file **RADAR24_v3.40_cd.img.zip**.
- Software to extract the image from the zip file (e.g. WinZip or StuffIt Expander).

PROCEDURE TO MAKE A RADAR® SOFTWARE INSTALL CD

- 1 Unzip (expand) the downloaded R24340_cd.img
- 2 Burn **R24340_cd.img** as a **DISK IMAGE**.

If your burning software does not recognize the .img file as a disk image file, rename it to **R24340_cd.iso** and then burn that as a **DISK IMAGE**.

If your burning software does not allow you to burn a disk image, use **WinImage** to extract the five files listed below and burn them to the CD as a data disk (ISO9660 format).

chunkaa
disk_id
GetAppVersion.zip
install.zip
installscriptupdater

- 3 Confirm that the CD contains the five files listed above.

CD INSTALL PROCEDURE

- 1 If you have previously installed the R24CDNET software loader upgrade, insert the **Software Install CD** in the drive, reboot RADAR®, and proceed to step 2.
 - To activate the CD install for the first time, insert the **R24CDNET floppy** and reboot RADAR®. You only need to do this once (unless you later downgrade to version 3.26 or below). For future releases, you will not need to use the floppy drive at all
 - When RADAR® has finished loading the **R24CDNET** image, you will be prompted to remove the floppy disk, insert the Software Install CD and then press **ENTER**. The message: **REBOOTING RADAR – PLEASE WAIT** will be displayed briefly and then RADAR® will automatically reboot.
- 2 When RADAR® has finished rebooting, the iZ logo will appear on the screen with a message below it. If the message says: **V3.40 REQUIRES HARDWARE UPDATES**, refer to the **HARDWARE REQUIREMENTS** section of these release notes. If your RADAR® unit meets the requirements, the message will be:

INSTALL RADAR 24
V3.40? ENTR/CNCL

If you do not want to proceed with the upgrade, press **CANCEL**. If you press **ENTER**, RADAR® will begin reading the software from the CD, and the message will change to:

INSTALLING RADAR
V3.40 DISK 1

When RADAR® is finished installing from the disk, it will start up in the new version and all projects will automatically be upgraded to version 3.40 format if necessary. This operation may take a few seconds per project.

- 3 If the message **NEW NIC FOUND** appears, this indicates that a new Network Interface Card was detected (or the card was not previously configured correctly). In any case, power off RADAR® and reboot to complete the setup of new drivers.
- 4 After rebooting, you will be prompted to enter the serial number if it has not been set yet. Type the number found on RADAR®'s back panel. If it is a RADAR®24, it will be a 14-digit number starting with **IZR024**. If it is a RADAR®V, it will be a 12-digit number starting with **IZRV**.
- 5 Check the date and time in the window near the top left corner of the **RADARView™** screen. If they are incorrect, go to the **SET TIME & DATE** option in the **SYSTEM MENU** to update.

INSTALL FROM PC, MAC OR NETWORK VIA FTP

You must have ALL the following requirements in place for this type of install to be successful.

FTP INSTALL REQUIREMENTS

- **R24CDNET** software loader upgrade (if you have not installed it yet). See the install procedure below for details.
- FTP program running on your PC or Mac computer.
- Proper FTP-enabled network setup/configuration between your computer and RADAR®. Refer to the RADAR® manual for specific network setup instructions if necessary.
- RADAR® Net Install software zip file **RADAR24_v3.40.0_net.zip** (obtained from a RADAR® software shipping CD or via the download section of our website www.izcorp.com)

FTP INSTALL PROCEDURE

- 1 If you have previously installed the R24CDNET software loader upgrade, just power up RADAR® and proceed to step 2.
 - To activate the FTP install for the first time, insert the **R24CDNET floppy** and reboot RADAR®. You only need to do this once (unless you later downgrade to version 3.26 or below). For future releases, you will not need to use the floppy drive at all.
 - When RADAR® has finished loading the **R24CDNET image**, the message **REMOVE FLOPPY, INSERT CD, ENTER** will appear on the screen below the iZ logo:

Since you are not installing from a CD, you need only remove the floppy. Do not press **ENTER**! Leave RADAR® in this state while you proceed to step 2.

- 2 From your PC or Mac computer, transfer the Net Install software zip file **RADAR24_v3.40.0_net.zip** via FTP to the **/boot/Install** directory on RADAR®.



You may see **InstallCurrent** and **InstallPrevious** directories under the boot directory but you must transfer the software into the **Install** folder.

- 3 Once the transfer is complete, you need to restart RADAR® to install the software.
 - If you installed the R24CDNET floppy in step 1, and the RADAR® screen still shows **REMOVE FLOPPY, INSERT CD, ENTER**, then press **ENTER**, and RADAR® will automatically restart and begin to install the software.
 - If you just powered up RADAR® in step 1, ensure that you **SHUTDOWN RADAR** (the last item in the main menu) and then reboot.
- 4 When RADAR® has finished rebooting, the iZ logo will appear on the screen with a message below it. If the message says: **V3.40 REQUIRES HARDWARE UPDATES**, refer to the *HARDWARE REQUIREMENTS* section of these release notes. If your RADAR® unit meets the requirements, the message will be:

**INSTALL RADAR 24
V3.40? ENTR/CNCL**

If you do not want to proceed with the upgrade, press **CANCEL**. If you press **ENTER**, RADAR® will begin transferring the software, and the message will change to:

**INSTALLING RADAR
V3.40 DISK 1**

When RADAR® is finished installing, it will start up in the new version and all projects will automatically be upgraded to version 3.40 format if necessary. This operation may take a few seconds per project.

- 5 If the message **NEW NIC FOUND** appears, this indicates that a new Network Interface Card was detected (or the card was not previously configured correctly). In any case, power off RADAR® and reboot to complete the setup of new drivers.
- 6 After rebooting, you will be prompted to enter the serial number if it has not been set yet. Type the number found on RADAR®'s back panel. If it is a RADAR® 24, it will be a 14-digit number starting with **iZR024**. If it is a RADAR® V, it will be a 12-digit number starting with **iZRV**.
- 7 Check the date and time in the window near the top left corner of the **RADARView™** screen. If they are incorrect, go to the **SET TIME & DATE** option in the **SYSTEM MENU** to update.

WHAT'S NEW IN VERSION 3.40?

UNIVERSAL SOFTWARE INSTALL

Once you have version 3.40 installed, you will be able to install interim software updates from any drive accessible by RADAR® (as well as the izcorp.com web site if your RADAR® is connected to the internet). Use the **UPDATE SOFTWARE** selection in the **SYSTEM MENU** and browse for the software upgrade zip file. For example for version 3.41, the file will be named **RADAR_v3.41.0.zip**. The same process can be used to downgrade software by selecting **OTHER** from the **INSTALL PREV VER** selection in the **DIAGNOSTICS MENU**.

MADI SUPPORT

Version 3.40 supports the Multi-channel Audio Digital Interface card which is now available for RADAR®.

BLU-RAY SUPPORT

Version 3.40 supports the use of pre-formatted BD-RE media with the iZ Blu-Ray multi-drive.

FASTER FILE TRANSFER

Copying files (including backup/restore and import/export) to system or network drives is now faster.

RECORD RECOVERY MODE

The **RECORD PREFS** menu now contains a **RECORD RECOVERY** option. If this mode is enabled, RADAR® will make a copy of critical file information during recording. This will allow your audio to be recovered if there is a power failure or RADAR® is accidentally switched off. When you reboot RADAR® and see the **UNSAVED DATA** prompt, answer **RECOVER**, then contact iZ Support and make arrangements to send the saved files along with the affected audio drive for data recovery.

PROJECT TEMPLATES

A **TEMPLATE MENU** now appears within the **PROJECT MENU**. If you want to create projects using particular settings (sample rate, track names, etc) and perhaps even a test tone or other audio, you can use a template to simplify the process. The **NEW PROJ SETTINGS** in the **PROJECT PREFS** menu allows you to select a template to use when creating new projects. You can choose **DEFAULT SETTINGS**, **CURRENT SETTINGS**, any template you have made, or you can select **ASK** to have RADAR® prompt you each time you create a new project.

FLATTENED BACKUPS

Now, when you backup a project from a RADAR BWAV recording drive, you will be prompted to choose the **BACKUP TYPE**. Choose **BWAV(NO UNDO)** to backup flattened files (with no undo levels). Choose **RADAR(WITH UNDO)** to do an unflattened backup that includes undo levels. Choose **BOTH(BWAV+RADAR)** to do one of each. Choosing the **BWAV** format does not flatten the actual project on the audio drive; rather it creates flattened files in the backup. This means you no longer have to export or flatten a project before you can load it into a digital audio workstation – now you can load BWAV files directly from the backup.



Backups of audio drives formatted as RADAR BWAV can only be restored on pre-3.40 software if you do a **DSET(LEGACY)** type of backup (although the audio files from BWAV backups can be *imported* using version 3.30 or later). Backups of audio drives formatted as **!RADAR!** (32, 64 or 128K clusters) always use the legacy format and can be restored using any version of RADAR® software.

ENHANCED FILL SILENCE OPTIONS FOR BACKUP AND EXPORT

The **EXPORT SILENCE** preference in the **FILE PREFS** menu has been renamed to **FILL SILENCE** since it is now used for both backup and export. A new **GAPS** option has been added that will fill in gaps between audio segments but will not align tracks to start at the same time. The **ALL** option does both. If you set the preference to **ASK**, you will be prompted to select the **FILL SILENCE** option when exporting or backing up **FLAT** or **BOTH**.



If you are prompted to **FILL SILENCE** when backing up **BOTH**, be aware that this applies to the flat backup only. You cannot fill silence in unflattened backups.

SPECIFY MARK IN/OUT RANGE FOR BACKUP (SAME AS EXPORT)

If your audio drive is formatted as RADAR BWAV, you can now select a **TIME RANGE** of **ALL** or **MARK IN/OUT** when making a backup (as you have always been able to do when exporting). This allows you to minimize the size of a backup if, for example, you only want to back up one song from a long recording.

SPECIFY NAME FOR BACKUP AND EXPORT FOLDERS

Previously, all backups were placed in **DSET** folders and exports were placed in folders derived from the project name. Now, when you are backing up or exporting a single project from a RADAR BWAV audio drive, you will be prompted for a **BACKUP NAME** or **EXPORT NAME** (with the project name as the default). A folder name will be created using the name you give, the track range (for backups only), and a **RADAR**, **BWAV** or **EXPORT** extension.

For example, if you are doing a **RADAR** backup with undos on a **RADARLink™** slave machine, and you name it **Take 5**, the backup will be put in a folder called **Take 5_25-48_RADAR**. If you do a flattened **BWAV** backup, it will be put in a folder named **Take 5_25-48_BWAV**. If you then do an **EXPORT** with the same name, it will be put in a folder named **Take 5_EXPORT**.

CUSTOM NAMES FOR BACKUP AND EXPORT AUDIO FILES

The BWAV files in the **AUDIO FILES** sub-folder of your flat backup or export are named according to the **FILE NAME FORMAT** specified in the **FILE PREFS**. There are now two options for file name format: **PRESET** and **CUSTOM**.

If **PRESET** is selected, choose from the following pre-defined naming conventions:

TRK-NAME-STAMP

E.g. T01-TrkName-01h22m36s12f00.WAV

This format consists of the track number, up to 12 characters of the track name, and the time stamp. This is the default format.

TRK-PROJ-STAMP

E.g. T01-ProjName-01h22m36s12f00.WAV

This format consists of the track number, up to 12 characters of the project name, and the time stamp.

TRK-REGION-NAME

E.g. T01-0001-TrackName.WAV

This format consists of the track number, region number, and track name.

TRK-REGION-PROJ

E.g. T01-0001-ProjectName.WAV

This format consists of the track number, region number, and project name.

PROJ-TRK-REGION

E.g. ProjectName-T01-0001.WAV

This format consists of project name, track number and region.

TRK-REGION (DOS)

E.g. T01-0001.WAV

This simple format containing the track and region number conforms to the DOS 8.3 file naming convention.

If **CUSTOM** is selected, choose from the following options to create and manage custom file name templates:

SELECT TEMPLATE Assign a template to be used for flat backups and exports.

MAKE TEMPLATE Create a new custom file name template.

IMPORT TEMPLATE Load a template that was defined on another RADAR®.

EXPORT TEMPLATE Copy a template for another RADAR®.

EDIT TEMPLATE Make changes to an existing template.

DELETE TEMPLATE Delete a template

NEW STRUCTURE FOR BACKUP AND EXPORT SUB-FOLDERS

Using the previous example, your **Take 5_25-48_EXPORT** folder will contain an **Audio Files** sub-folder which contains your BWAV files, and a **Project Info Files** sub-folder which contains the project notes. Your backup folders (**Take 5_25-48_RADAR**, and **Take 5_25-48_BWAV** will have these two sub-folders, plus two more for the **Disk Info File**, and **RADAR System Files**.

FILE FLATTENING USES SAME NAMING STRUCTURE AS BACKUP AND EXPORT

Now, when you use the **FLATTEN PROJECTS** operation in the **FILE MENU**, RADAR® will create flattened folders in the **USER** directory using the same new naming conventions as flat backup and export (i.e. instead of creating folders named **Pnnn_projectname**, they will be named **projectname_xx-yy_FLAT** and will contain the **Audio Files** and **Project Info Files** subfolders. The actual audio files will be named according to the **FILE NAME FORMAT** preference.



Renaming a project after it has been flattened will no longer rename the flattened folder in the **USER** directory.

ENHANCED BACKUP CATALOG

Now, when you are in the **RESTORE** dialog selecting backups to restore, you can use the  key to navigate to the **NAME** field, then use the  to select **DATE** to see the date of the backup, **PROJ** to see how many projects are in the backup, **TRKS** to see the track range of the backup, **SIZE** to see the size of the backup, **DISK** to see the cluster size of the backup, **STAT** to see the status of the backup and **TYPE** to see the backup type. This can help you decide which backup(s) you want to restore.

ENHANCED PROJECT NOTES

The **PROJECT NOTES** document now indicates the iZ Technology web site URL, RADAR® model, audio converter type, and software version number. For clarity, the heading has been changed from **RECORDING MAP** to **PROJECT NOTES**, and **DIGITAL MACHINE** has been changed to **SERIAL NUMBER**. In addition, if the project **DISPLAY MODE** is **BARS/BEATS**, an extra line appears in the **PROJECT NOTES** to indicate the tempo and time signature. E.g.:

Project Notes
 Date Created: Jun-06-2007
 iZ Technology
 www.izcorp.com
 RADAR V Nyquist
 Serial Number: iZRV00101158
 Software Version: 3.40
 ...
 MIDI Tempo: 120.0 BPM 4 / 4

The **PROJECT NOTES** files will be named using the **projectname_xx-yy_Pnnn.TXT** convention where **nnn** is the project number. For example if project 9 is named **Take 5**, its project notes file would be named **Take 5_01-24_P009.TXT**.

SYSTEM FILES FOLDER ON THE ARCHIVE DRIVE

DEBUG LOGS, **DISK IMAGES**, **PROJECT TEMPLATES**, **FILE NAME TEMPLATES**, **DISK INFO FILE** and **RECORD RECOVERY** files are now contained within the new **SYSTEM FILES** folder on the **D:ARCHIVE** drive.

SUPPORT FOR EXTERNAL SATA PORT

A SATA drive port can now be installed in place of the floppy drive so that you can connect an external SATA drive to RADAR®. To avoid long timeouts during mounting when there isn't a drive connected, a new **ENABLE DISK ID** setting has been added to the **DISK MENU**. If you have an external SATA port installed, but no drive plugged in, change the **ENABLE** flag for disk **ID 2** from **Y** to **N**.

DUAL SESSION CONTROLLER SUPPORT

You can now connect a **Session Controller** to either or both of RADAR®'s COM ports. Use the **REMOTE PREFS** section of the **PREFERENCES MENU** to set the **REMOTE PORT** to **COM1**, **COM2**, or **BOTH**.

ARROW KEY GOTO FUNCTION

The  and  keys have been used to locate to the **MARK IN** and **MARK OUT** points respectively. Now you have the option to use them to locate to the **PREVIOUS** and **NEXT** points in the locate list (not including the **MARK IN** and **MARK OUT** points). The option can be found in the **ARROW KEY GOTO** setting in the **PREFERENCES MENU**.

STOP AT LOCATE FUNCTION

RADAR® will automatically stop playing when it reaches a locate point if you enable the **STOP AT LOCATE** option in the **PREFERENCES MENU**. You also have the option to automatically cue to the next locate point after stopping. If **AUTOPLAY** is enabled, RADAR® will then begin playing automatically.

ASSIGN FT-SWITCH FUNCTION

Up to three foot switches can be plugged in to the back of the **Session Controller**. Their default functions are **PLAY/STOP**, **LAST LOC**, and **PUNCH IN/OUT**. Using the new **ASSIGN FT-SWITCH** setting in the **PREFERENCES MENU**, you can now assign any of your macros (recorded using the **MACRO** keys on the **Session Controller**) to any of the foot switches.

ASSIGN MMC LOC] FUNCTION

The new **ASSIGN MMC LOC** setting in the **PREFERENCES MENU** allows you to define how RADAR® will respond to **LOCATE** commands received via MIDI Machine Control.

BUGS FIXED IN VERSION 3.40

PROBLEM/BUG	COMMENTS
SMPTE sync should be sample accurate on RADAR® V	When chasing time code on a RADAR unit equipped with an Adrenaline® Plus card, SMPTE sync and video sync are now sample accurate.
Cursor jumps when exiting jog mode	Sometimes, after using the jog wheel and then exiting jog mode, the time counter would jump to a different location. Now it will stay put.
Can't backup to / restore from disk initialized as EXPORT:FAT32	Projects on a RADAR BWAV audio drive can now be backed up to (and restored from) a DVD_RAM, BE-RE or SCSI disk formatted as EXPORT:FAT32 . The disk no longer has to be initialized for BACKUP:!ARCHIVE! . This allows you to use the same disk for backups and exports from a RADAR BWAV drive.

PROBLEM/BUG	COMMENTS
<p>Backup leaves unused space on DVD-RAM</p>	<p>When backing up to DVD-RAM or BD-RE media, the new flattened BWAV(NO UNDO) type of backup makes more efficient use of the disks. Unflattened backup asks you to insert a new disk if the file it is trying to back up will not fit on the current disk. This leaves some unused space on the DVD-RAM or BD-RE disk. BWAV (flattened) backup splits files so that they fit nicely (i.e. it adjusts the file length to fit the remaining space, and then continues on the next disk).</p>
<p>EXPORT SILENCE with MARK IN/OUT uses excessive disk space</p>	<p>When doing a mono export using the MARK IN/OUT time range with the EXPORT SILENCE option set to YES, RADAR® was filling each track with silence up to the MARK OUT point. Now RADAR® will still backfill each track to the MARK IN point (so they are time aligned) but will not fill to the MARK OUT point if the audio ends earlier.</p> <div data-bbox="662 884 1425 1087" style="border: 1px solid gray; padding: 10px;">  <p>Stereo exports still fill with silence up to the MARK OUT point so that if you are creating a CD audio track, you can make it exactly the length you want.</p> </div>
<p>MAKE PORTABLE creates too many folders in the USER directory</p>	<p>When making an audio drive portable, RADAR® was creating a separate folder for each project to save the project notes. Now all project notes files will be placed within a single PROJECT INFO FILES folder within the USER directory. Each file will be named projectname(Txx-yy)nnn.TXT where xx-yy is the track range (e.g. 25-48 for a RADARLink™ slave) and nnn is the project number.</p>
<p>PDF files can be written without extension</p>	<p>When saving project notes or disk notes as a PDF file, it was possible to type over the .PDF extension in the file name. This made it difficult to open the file on a PC running Windows. Now the FILE NAME dialog shows the name without the .PDF extension, then adds it automatically after you press ENTER.</p>
<p>Confusing message when exporting to CD-R or DVD-R</p>	<p>If RADAR® does not have enough space on its internal system drive to make the ISO image to be burned to a CD or DVD, it will now say D:ARCHIVE FULL instead of the generic NOT ENOUGH SPACE message. This makes it clear that it is the system drive rather than the CD or DVD that does not have enough space.</p>

PROBLEM/BUG	COMMENTS
Confusing message when exporting without disks mounted	Now, if you attempt a file export when disks are unmounted, RADAR® will say NO DISKS MOUNTED instead of NO TRACKS SELECTED .
Prompt to reboot after changing RADARView™ resolution	If you change the RADARVIEW RES in the PREFERENCES MENU , the message REBOOT TO CHANGE RADARVIEW RES will now appear to remind you that you have to reboot RADAR® for the change to take effect.
Truncated error messages from network import/export	When an error was encountered while importing from or exporting to a network drive, the error message that appeared in the Session Controller LCD and on the RADARView™ screen was often truncated and therefore difficult to understand. The messages have been modified to say: SERVER IP ADDR IS INVALID , WAV HEADER ERROR , ARCHIVER ERROR , etc.
File export with FTP client takes too long to time out	When attempting a file export over the network using an incorrect IP address or a bad cable, there was a long delay (approximately 2 minutes) before the message SERVER IP ADDR IS INVALID appeared. Now the error message will appear within a few seconds.
RADAR® crashes reloading project after flattening	Sometimes, after flattening a project, RADAR® was crashing while attempting to reload the flattened project.
Vari-speed can be set to invalid value while transport is stopped	While stopped, the vari-speed percent could be set beyond the valid range. Now it will only accept valid percentages.
SHIFT + CANCEL doesn't clear peak meter values on RADARLink™ slave.	Now, when you press SHIFT and CANCEL while in RADARLink™ record, the peak values are reset not only on the Meterbridge , but also on the slave machine's RADARView™ display.
MMC Locate doesn't take Pre Roll into account	Now, when RADAR® receives a LOCATE command via MIDI Machine Control , and the project has an active PRE ROLL setting, the cue location will be adjusted accordingly.
RADAR® freezes or crashes while processing large GAIN/FADE	RADAR will now complete GAIN/FADE edits no matter how much audio is being processed.
Exported files overwritten when size exceeds 2GB	When exporting a long recording, RADAR closes off the WAV file at 2GB and starts a new one. The problem was that if the FILE NAME FORMAT contained REGION , then the new file name was

PROBLEM/BUG	COMMENTS
	the same as the original, so the first 2GB of audio was lost.
Project Notes truncated after BACKUP and RESTORE	Some of the information entered via the PROJECT NOTES: EDIT dialog was missing after backing up and restoring a project.
RADAR® crashes when reformatting on CD AUDIO EXPORT	When exporting as CD AUDIO using certain MARK IN/OUT time ranges, RADAR® would crash while reformatting audio.
NAME PROJECT should work the same as NAME TRACK	Now, you can start typing at the NAME PROJECT prompt without having to use the  key to move to the second line of the LCD display.
Track arm indicators disappear from RADARView™ after vertical zoom	The red track arm bars to the left of the waveforms on the RADARView™ display were disappearing after doing a vertical zoom.
Confusing message when trying to paste empty clipboard	Now, if you attempt to paste an empty clipboard, RADAR® will say NOTHING TO PASTE instead of OUT POINT MUST FOLLOW IN POINT .
Text files backed up to FTP server have garbage at the end	Text files (such as Project Notes) contained extra characters at the end when backed up or exported to an FTP server.
CD AUDIO EXPORT gives conflicting messages about size requirements	When reformatting for CD AUDIO when the destination drive was already full, the export dialog first said XX MB REQUIRED, PROCEED? then YY MB XTRA REQ'D where YY (the extra required) was greater than XX (the whole thing). Now RADAR® takes the reformatting into account when calculating the extra space required.
CD AUDIO EXPORT seems to be working, then says EXPORT CANCELLED	When attempting to reformat audio when exporting to an FTP server, RADAR® began processing before eventually canceling the export. Now a message saying EXPORT TO D: THEN COPY FILES will appear right away to indicate that the reformatting can only be done using the system drive.
RADAR® crashes while in Jog mode with Vari-speed	On rare occasions, navigating menus on the Session Controller while in JOG mode was causing RADAR® to crash.
No SCSI Scan when prompted for dual disk on reboot	Now RADAR® scans the SCSI bus after rebooting in dual disk mode. This ensures that all available drives are shown in the

PROBLEM/BUG	COMMENTS
	SELECT DISK menu.
Import ALL FILES omits files without warning	When selecting ALL FILES for import, RADAR® was sometimes importing only the first 24 files found, without indicating that some files had been omitted. Now, if there are not enough tracks to accommodate all the files, RADAR® will not proceed with the import. Instead it will prompt TOO MANY FILES, CAN'T IMPORT ALL and go to the IMPORT FILES: SELECTED FILES dialog. From here, you can select individual files to import, and even place multiple files on the same track using the track arm keys.
Export 96 KHz Project as CDAudio truncates file	If more than 2 GB of audio data was being reformatted to a CDAudio, the result was being split into two separate files even if the resulting file was less than 2 GB. Now it will only be split if the size is greater than 2 GB <i>after</i> reformatting.
RESTORE COMPLETE is not really complete	RADAR® was reporting RESTORE COMPLETE even if it could not create a project because the playlist file was missing from the backup. Now it will report RESTORE FAILED if this happens.
RADAR® crashes after moving audio prior to 00:00:00:00.00	After sliding audio or changing the project start time so that there was audio before time zero, RADAR® was crashing when attempting to reload the project.
Browser shows B:DVD even when the disk is not a DVD	Now, RADAR®'s file browser will detect the type of disk inserted into the multi-drive and display it accordingly, instead of always displaying B:DVD . E.g. B:CD-R AUDIO CD .
RADAR® crashes on CHECK DISK	RADAR® was sometimes crashing when attempting to save disk notes prior to performing the CHECK DISK function. Now, RADAR® will not attempt to save disk notes when it is about to CHECK, REPAIR or INIT the disk.
RADAR® crashes on SAVE DEBUG	RADAR® was sometimes crashing when attempting to save debug logs. This was happening when the DESCRIPTION dialog was not filled in.

MENU STRUCTURE IN VERSION 3.40

Here is the RADAR® menu structure for Version 3.40. Additions since version 3.39 are highlighted in **RED**. Items that have changed (e.g. renamed or moved to a new location) are highlighted in **BLUE**.

SYSTEM MENU

SYSTEM INFO

RADAR SOFTWARE VERSION
 SERIAL NUMBER
 RECORDING ENGINE
 SYNC ENGINE
 INSTALLED RAM
 CPU TYPE
 CPU SPEED
 IP ADDRESS
 MAC ADDRESS
 ETHERNET TYPE
 ANALOG I/O
 DIGITAL I/O 1
 DIGITAL I/O 2
DIGITAL I/O 3
IDE 0 MASTER (renamed from PRIMARY MASTER)
IDE 1 MASTER (renamed from SECOND MASTER)
 SCSI ID 0

SET TIME & DATE
 SET SERIAL NUM
 UPDATE SOFTWARE
 TOTRIS (if "Shift-# GAMES")
 PING (if "Shift-# GAMES")

DISK MENU

MOUNT / UNMOUNT
 SHOW DISK SPACE
 RECLAIM SPACE
 MAKE PORTABLE
 ERASE ALL AUDIO
 INIT DISK
 DISK MODE
 24 TRKS AT 192K (if Adrenaline®Plus present)
 SEAMLESS 64K
 CLONE RADAR DISK
 DISK NOTES
ENABLE DISK ID

SYNC MENU

TC SETTINGS

TC FORMAT
 TC RATE
 SMPTE LOCK SPEED
 FREEWHEEL TIME
 STATIC TC OUT
 CHASE MODE
 SHOW SYNC DRIFT
 SYNC THRESHOLD
 CHASE ON POWERUP

SYNC REFERENCE

(now has MADl option)

RADARLINK

ENABLE/DISABLE
 RADARLINK SOLO
 RADARLINK ID

MACHINE CONTROL

ENABLE/DISABLE
 SELECT TYPE
 9-PIN SETTINGS
 DEVICE ID
 9-PIN CHASE MODE
 TRACK ARM MODE
 VARISPEED MODE
 SHUTTLE-0 MODE
 TC OUT MODE-CUE
 TC OUT MODE-PLAY

MMC SETTINGS

DEVICE ID

SYNC REF OUTPUT

LOST SYNC IN REC

I/O MENU

I/O ROUTING

INPUT ROUTING
 OUTPUT ROUTING
 RESET ROUTING
 DIG 2-CH ROUTING
 DIGITAL INPUTS
 8-BUS MODE

ANALOG I/O LEVEL

DIG IN FORMAT

(now has MADl option)

DIG I/O SDQ

DIG 2 CH OUTPUT

AES SETTINGS

(if AES card present)

SAMPLE RATE IN
 EMPHASIS IN
 EMPHASIS OUT
 MULTI CHNL TYPE

ADAT SETTINGS

(if ADAT card present)

ADAT IN CLOCK
 ADAT IN WIDTH
 ADAT IN SMPL PT
 ADAT OUT WIDTH
 ADAT OUT USERBIT
 FACTORY DEFAULTS

I/O MENU (con't)

TDIF SETTINGS (if TDIF card present)

IN SAMPLE POINT
 SAMPLE RATE IN
 EMPHASIS IN
 EMPHASIS OUT
 CARD TYPE

MADI SETTINGS (if MADI card present)

SAMPLE RATE IN
EMPHASIS IN
EMPHASIS OUT
LEGACY MODE
INTERLACE (48CH)
COAX/OPTICAL IN

FILE MENU

BACKUP
 RESTORE
 EXPORT
 IMPORT
 FLATTEN PROJECTS
 FILE MANAGEMENT
 MAKE DVDCD IMAGE
 BURN DATA CD/DVD
 BURN AUDIO CD
 FINALIZE CD
 DEL IMG FILE
 MACROS
 MIX AUTOMATION
 FILE PREFS

SHOW SIZE
 EXPORT FORMAT
FILL SILENCE (renamed from EXPORT SILENCE)
 REFORMAT QUALITY
 WRITE VERIFY
FILE NAME FORMAT (now has PRESET and CUSTOM options)

PRESET

TRK-NAME-STAMP
 TRK-PROJ-STAMP
 TRK-REGION-NAME
 TRK-REGION-PROJ
 PROJ-TRK-REGION
 TRK-REGION (DOS)

CUSTOM

SELECT TEMPLATE
MAKE TEMPLATE
IMPORT TEMPLATE
EXPORT TEMPLATE
EDIT TEMPLATE
DELETE TEMPLATE

DVD BURN MODE
 DVD BURN SPEED

PROJECT MENU

GOTO PROJECT
 NEW PROJECT
 COPY PROJECT
 DELETE PROJECT
 NAME PROJECT
 RENUMBER PROJECT
 SAMPLE RATE
 BIT RESOLUTION
 TC FORMAT
 TC RATE
 START TIME
 SYNC OFFSET
 DISPLAY MODE
 MIDI TEMPO MAP
 VARISPEED
 UNDO LEVEL
 WAVE NOISE FLOOR
 NAME TRACK
 RENUMBER LOCATES
 REBUILD WAVES
 I/O ROUTING
 INPUT ROUTING
 OUTPUT ROUTING
 RESET ROUTING
 DIG 2-CH ROUTING
 DIGITAL INPUTS
 8-BUS MODE
 PROJECT NOTES
 PROJECT PREFS
 NEW PROJ SETTINGS
 NEW PROJ NUMBER
 DEF SAMPLE RATE
 DEF BIT RES
 DEF TC FORMAT
 DEF TC RATE
 DEF START TIME
 DEF UNDO LEVEL
 DEF WAVE NS FLR

(now contains **TEMPLATE** selection)

TEMPLATE MENU

MAKE TEMPLATE
IMPORT TEMPLATE
EXPORT TEMPLATE
DELETE TEMPLATE

EDIT MENU

UNDO EDIT
 REDO EDIT
 MODIFY EDIT
 CUT
 COPY
 PASTE
 MOVE
 ERASE
 LOOP
 SLIDE
 INSERT SILENCE
 REVERSE
 GAIN/FADE
 LISTEN
 EDIT XFADE TIME
 REC XFADE TIME
 CROSSFADE TYPE
 MUTE TRACKS
 RECORD SAFE

PREFERENCES MENU

DEF SMPTE FIELD
 SHOW SUBFRAMES
 SCROLL PROJ LED
 TRACK SOLO MODE
 ZOOM SOLO AUDIO
 SLIDE TIME UNITS
 FFWD & REW RATE
 MAX JOG RATE
 PEAK HOLD TIME
 CLIP HOLD TIME
 SYNC MRK TRIGGER
 SAVE STATE DELAY
 SCRN-SAVER MENU
 SAVER DELAY
 IMAGE EFFECTS
 AUTO RECLAIM
 TRK ARM GROUPING
 IGNORE AES FLAGS
 UNMOUNT PORTABLE
 DAMSEL MODE
 RADARVIEW RES
 CLOCK MODE
 MUTE I/O ON STOP
ARROW KEY GOTO
STOP AT LOCATE
ASSIGN FT-SWITCH
ASSIGN MMC LOC
 RECORD PREFS
 1-BUTTON RECORD
 TRACK ARM ACTION
 RECORD MK IN/OUT
 LOW DISK WARNING
 RECORD VERIFY
 RECORD ON CHASE
 PROJECT PER TAKE
RECORD RECOVERY

(if Adrenaline®Plus present)

(if "Shift-# CLAP") (for Soundmaster)

PREFERENCES MENU (con't)

FILE PREFS

SHOW SIZE
EXPORT FORMAT

FILL SILENCE (renamed from EXPORT SILENCE)

REFORMAT QUALITY
WRITE VERIFY

FILE NAME FORMAT (now has PRESET and CUSTOM options)

PRESET

TRK-NAME-STAMP
TRK-PROJ-STAMP
TRK-REGION-NAME
TRK-REGION-PROJ
PROJ-TRK-REGION
TRK-REGION (DOS)

CUSTOM

SELECT TEMPLATE
MAKE TEMPLATE
IMPORT TEMPLATE
EXPORT TEMPLATE
EDIT TEMPLATE
DELETE TEMPLATE

DVD BURN MODE
DVD BURN SPEED

PROJECT PREFS

NEW PROJ SETNGS (now contains TEMPLATE selection)

NEW PROJ NUMBER
DEF SAMPLE RATE
DEF BIT RES
DEF TC FORMAT
DEF TC RATE
DEF START TIME
DEF UNDO LEVEL
DEF WAVE NS FLR

NETWORK PREFS

INTERFACE PREFS

HOST NAME
DHCP SERVER
LOCAL IP ADDRESS (if DHCP disabled)
SUBNET MASK (if DHCP disabled)
GATEWAY (if DHCP disabled)
PRIMARY DNS (if DHCP disabled)
SECONDARY DNS (if DHCP disabled)
FTP SERVER
FTP LOGIN NAME (if FTP enabled)
FTP PASSWORD (if FTP enabled)

SERVER PREFS

NETWORK PROTOCOL
SERVER IP ADDR
SERVER NAME
SERVER SHARE (if Network Protocol is "CIFS")
CLIENT WORKGROUP (if Network Protocol is "CIFS")

EMAIL PREFS

COMPANY NAME
LOCATION
REPLY EMAIL

NETWORK CONTROL

REMOTE PREFS

REMOTE PORT

DIAGNOSTICS MENU

SCAN SCSI BUS
INIT DISK
CHECK DISK
REPAIR DISK
CHECK PROJECT
REALTIME ERRORS
VERIFY DISKS
SHOW AUDIO LEVEL
PING IP ADDRESS
CONFIGURE DEBUG
SAVE DEBUG
EMAIL DEBUG
RESTART DESKTOP
FACTORY SETTINGS
INSTALL PREV VER

HELP MENU

RELEASE NOTES
MANUAL

SHUTDOWN RADAR

