ReSource AutoMax Programming Executive V4.2 and Distributed Power System (DPS) Drive Software Installation

Instruction Manual J2-3103-2



The information in this user's manual is subject to change without notice.

### WARNING

ONLY QUALIFIED ELECTRICAL PERSONNEL WHO ARE FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF ALL EQUIPMENT IN THE SYSTEM AND THE HAZARDS INVOLVED SHOULD INSTALL, ADJUST, OPERATE, AND/OR SERVICE THIS EQUIPMENT. READ AND UNDERSTAND ALL APPLICABLE MANUALS IN THEIR ENTIRETY BEFORE PROCEEDING. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN BODILY INJURY.

### WARNING

THE USER MUST PROVIDE AN EXTERNAL, HARDWIRED EMERGENCY STOP CIRCUIT OUTSIDE THE PROGRAMMABLE CONTROLLER CIRCUITRY. THIS CIRCUIT MUST DISABLE THE SYSTEM IN CASE OF IMPROPER OPERATION. UNCONTROLLED MACHINE OPERATION MAY RESULT IF THIS PROCEDURE IS NOT FOLLOWED. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN BODILY INJURY.

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## 1.0 INTRODUCTION

The products described in this manual are manufactured or distributed by Reliance Electric Industrial Company.

This manual provides installation instructions for the following AutoMax® Programming Executive V4.x and optional Distributed Power System (DPS) drive software model numbers:

### **AutoMax Programming Executive Software**

- 57C605 Single-User Executive
- 57C606 Single-User Executive Upgrade
- 57C607 Single-User Multicopy Executive
- 57C625 Shared-User Executive (5 Users)
- 57C626 Shared-User Executive Upgrade
- 57C627 Additional 5-User License for Shared-User Executive

### **DPS Drive Software**

- 57C651 SD3000 DPS Software
- 57C652 SF3000 DPS Software
- 57C653 SA3000 DPS Software
- 57C654 SA500 DPS Software
- 57C655 SB3000 DPS Software
- 57C657 SA3100 DPS Software
- 57C650 Shared-User License for DPS Software (5 users)

The AutoMax Programming Executive software ("Executive software") is a Microsoft Windows™ 95-based application used to configure, program, and monitor AutoMax Distributed Power Systems. It includes the editors and compiler necessary to create application tasks in BASIC, Control Block, and PC/Ladder Logic languages. It also contains the operating system for AutoMax Processors.

**Important:** The AutoMax Programming Executive Software does not support long file names. While you can use long file names with the Windows 95 operating system, these extended names are not supported by the Programming Executive.

The DPS drive software ("DPS software") is used to configure, program, and monitor DPS drives. This software also contains the operating systems for the Universal Drive Controller modules and Power Module Interface hardware used to control DPS drives. Each drive type has corresponding DPS software.

Both the Executive software and the DPS software must be either single-user or shared-user versions. The DPS software can be used only with V3.5 and later of the Executive software. DPS software cannot be used as stand-alone applications. Executive software must always be installed before any DPS software options.

The Executive software is described in J2-3102. The DPS software is described in the instruction manuals that ship with the software.

## 1.1 Organization of This Manual

This instruction manual consists of 10 chapters. If you are installing only the Executive software, you can skip over chapters 7, 8, and 9.

### **Introductory Information**

- Chapter 1: Products described in this manual and manual organization
- Chapter 2: Personal computer requirements
- Chapter 3: Making a backup copy

### Installing the Executive Software

- Chapter 4: Single-User Executive
- Chapter 5: Shared-User Executive
- Chapter 6: Adding 5 Users

### Installing the DPS Software

- Chapter 7: Single-User DPS Software
- Chapter 8: Shared-User DPS Software
- Chapter 9: Adding 5 Users

### **Running the Executive Software**

• Chapter 10

# 2.0 PERSONAL COMPUTER REQUIREMENTS

In order to install and run the Executive software and DPS software, your personal computer must meet the following minimum requirements:

- Your PC must be an IBM<sup>™</sup>-compatible 80486 with at least 16MB of RAM.
- You must have Windows 95 installed.
- 3. Your computer must have a hard disk with a minimum of 30 MB of free disk space to load the Executive software and an additional 23 MB available on the disk where Windows 95 is installed, which is used only during the installation. Each DPS software option requires approximately 2 MB of additional disk space. Note that all DPS software options share a number of common files. When multiple DPS software options are installed, common files will only be copied once to the hard drive and the amount of disk space required per option may be significantly less than the amount given above.
- Your computer must have additional disk space for your application files.

If your personal computer already has any previous version of the Executive software loaded on it, you can install the new software without copying over these files. Version 4.x of the Executive software can co-exist on the same computer with any previous version of the Executive software.

## 3.0 MAKING A BACKUP COPY

Before you install and use the Executive software and the DPS software, you should make a backup copy in case the original is lost or destroyed. You must use the DOS DISKCOPY command for backup.

You will need as many formatted floppy disks for the backup procedure as you have of the Executive and DPS software. Follow the procedure below to make backup copies of all disks.

- Step 1. Double-click My Computer.
- Step 2. Select floppy [A:] (or [B:]).
- Step 3. Select Copy Disk from the file menu.
- Step 4. The operating system will prompt you to insert the source disk into drive A: (or B:). Insert the first disk and strike any key.
- Step 5. The system will then prompt you to insert the target disk. Replace the source disk with the target (blank) disk and strike any key. The display will indicate when the procedure is complete and allow you to copy the remaining disks without typing the DISKCOPY command again. Simply answer yes (Y) to the following prompt:

  Copy another (Y/N)?
- Step 6. Use the above procedure to make a copy of all the disks.

# 4.0 INSTALLING THE SINGLE-USER EXECUTIVE

NOTE: When a target system hard disk is highly fragmented and an installation is run, there is the potential for file corruption and data loss because the fragmented hard drive and the file system cannot handle the file transfer operations taking place during the installation.

As a precaution against data loss during installations run on fragmented disks, run SCANDISK (CHKDISK) on the target system hard disk before the installation to correct any hard disk fragmentation problems.

Use the following procedure to install the Executive software (M/N 57C605, 57C606, 57C607). This procedure will install the Executive files and automatically create a Windows program folder containing the AutoMax-related icons.

During the installation procedure, the following subdirectories will be created on the hard disk if they do not already exist:

<DRV>:<RPE><AMX4>

<DRV>:<RPE><AMX4>\TEMP

<DRV>:\AMXWORK

Step 1. To begin installing the Executive software, insert the disk labeled "1" in floppy drive A: or B:.

Click Start, then click Run, and then type:

<DRV>:\INSTALL.EXE

#### where:

<DRV> is the floppy drive in which you have placed the disk.

Click "OK" to begin the install procedure.

Before installing any files, the install program will perform a setup operation, and then display messages describing the type of installation (Single User or Upgrade Single User) and the amount of hard disk space required for the Executive software.

If you are installing the upgrade software (M/N 57C606), you will be prompted that the install procedure requires a previously installed copy on the hard drive.

Step 2. You will be prompted for the drive and subdirectory in which to install the software. The defaults are as follows:

<DRV>:\<RPE>\<AMX4>

### where:

<DRV> is the hard drive where Windows is installed

<RPE> is the ReSource subdirectory

<AMX4> is the AutoMax V4.x subdirectory

You can make changes to any of the above parameters.

<DRV>:\AMXWORK will be the default working drive and subdirectory. If you need to change the default, you must do so at the Setup menu in the Executive software.

Step 3. If AutoMax task skeleton files (SKELETON.\*) are found in the install directory, the install procedure will display a message stating that the existing AutoMax task skeleton files (SKELETON.\*) have been re-named to USKELTON.\*.

The install procedure will install new AutoMax task skeleton files (SKELETON.\*). After the install procedure is completed, you must update the new skeleton files with any custom information from your old skeleton files (USKELTON.\*), and then delete the old skeleton files.

Step 4. The install procedure will begin writing files to your hard drive. After disk 1 is installed, you will be prompted to replace disk 1 with the floppy disk labeled "2", and so forth for the remaining disks. Be sure to respond appropriately each time to the "OK" prompt to continue the installation. The Executive software will occupy approximately 30 megabytes of memory on the hard disk when installed.

You can abort the installation procedure at any point by selecting F3 (Exit). If you abort the installation procedure, you will be given the option to delete all of the files in the <AMX4> and <TEMP> subdirectories.

- Step 5. A text file, README.AMX, contains information on the enhancements made for AutoMax V4.x. You will be prompted for whether you want to read the file or not. If you select "Yes", the file will be displayed. If you select "No", you can read or print out the file later by selecting the "Read Me" icon from the AutoMax V4 Executive folder.
- Step 6. The following line will be added to the AUTOMAX.INI file by the install procedure:

EXEC\_DRIVE=<DRV>:\<RPE>\<AMX4>
Beta = Yes

where <drive:\subdirectory> is the drive and subdirectory where the Executive software is installed.

- Step 7. When the installation has been completed, a message will be displayed.
- Step 8. Install any DPS software options required for your application. See chapters 7, 8, and 9 for more information.

# 5.0 INSTALLING THE SHARED-USER EXECUTIVE

NOTE: When a target system hard disk is highly fragmented and an installation is run, there is the potential for file corruption and data loss because the fragmented hard drive and the file system cannot handle the file transfer operations taking place during the installation.

As a precaution against data loss during installations run on fragmented disks, run SCANDISK (CHKDISK) on the target system hard disk before the installation to correct any hard disk fragmentation problems.

This chapter describes how to install the shared-user version of the Executive software, which allows up to five users to run the Executive simultaneously (M/N 57C625, M/N 57C626). Installation of the shared-user Executive requires two separate procedures.

The first procedure, in section 5.1, describes how to install the Executive on the network file server. This procedure must be done first.

The second procedure, in section 5.2, describes how to install the Executive on each network node that will use the Executive software.

During the installation procedure, the following subdirectories will be created on the network server hard disk if they do not already exist:

```
<DRV>:\RPE\<AMX4>
<DRV>:\RPE\<AMX4>\TEMP
```

For DPS Software Users:

If you install shared-user Executive software and you want to install any DPS software options, you must first install the shared-user DPS software. See chapter 8 for more information.

### 5.1 Installing the Shared-User Executive on a Network Server

Install the shared-user Executive on a network server following the directions below. This procedure must be performed before installing the shared-user Executive on each network node.

Step 1. To begin installing the Executive software, insert the disk labeled "1" in floppy drive A: or B:.

Click Start, then click Run, and then type:

```
<DRV>:\INSTALL.EXE
```

where:

<DRV> is the floppy drive in which you have placed the disk.

Click "OK" to begin the install procedure.

Before installing any files, the install program will perform a setup operation, and then display messages describing the type of installation (Shared 5 User or Shared 5 User Upgrade) and the amount of hard disk space required for the Executive software.

If you are installing the upgrade software (M/N 57C626), you will be prompted that the install procedure requires a previously-installed copy on the network server.

Step 2. You will be prompted for the drive and subdirectory in which to install the software. The defaults are as follows:

where:

<DRV> is the hard drive where Windows is installed <RPE> is the ReSource subdirectory <AMX4> is the AutoMax V4.x subdirectory

Step 3. If AutoMax task skeleton files (SKELETON.\*) are found in the install directory, the install procedure will display a message stating that the existing AutoMax task skeleton files (SKELETON.\*) have been re-named to USKELTON.\*.

The install procedure will install new AutoMax task skeleton files (SKELETON.\*). After the install procedure is completed, you must update the new skeleton files with any custom information from your old skeleton files (USKELTON.\*), and then delete the old skeleton files.

Step 4. The install procedure will begin writing files to the network server hard drive. After disk 1 is installed, you will be prompted to replace disk 1 with the floppy disk labeled "2", and so forth for the remaining diskettes. Be sure to respond appropriately each time to the "OK" prompt to continue the installation. The Executive software will occupy approximately 30 megabytes of memory on the hard disk when installed.

You can abort the installation procedure at any point by selecting F3 <Exit>. If you abort the installation procedure, you must delete all of the files in the <AMX4> and <TEMP> subdirectories.

- Step 5. A text file, README.NET, contains information pertaining to using the Executive software as a shared program on a network. You will be prompted for whether you want to read the file or not. If you select "Yes", the file will be displayed. If you select "No", you can read or print out the file later by selecting README.NET from the <AMX4> directory list using the Windows Explorer.
- Step 6. A message will be displayed that describes how to install the Executive software onto a node on the network. This procedure is also described in section 5.2 below. The node installation procedure should be done immediately after completing the network server installation procedure.

A message will be displayed stating that the installation is complete.

Step 7. Run the network node install procedure (see section 5.2) on each of the network nodes.

### 5.2 Installing the Shared-User Executive on Network Nodes

Install the shared-user Executive on each network node that will access it following the directions below. This procedure must be performed after installing the shared-user Executive on the network server.

Step 1. From a node workstation, log on to the network from the Windows 95 Task bar, click Start, then Run, and enter the directory that contains the Executive software (e.g., <DRV>:\<RPE>\<AMX4>). Type:
INSTALL.EXE

Step 2. A message will be displayed that describes the Shared User Node Installation. Select "OK" to begin the installation procedure. The Executive \*.INI file will be copied to the local hard drive and AutoMax icons will be created in the AutoMax program folder.

Step 3. A text file, README.AMX, contains information on the enhancements made for AutoMax V4.x. You will be prompted for whether you want to read the file or not. If you select "Yes", the file will be displayed. If you select "No", you can read or print out the file later by selecting the "Read Me" icon from the AutoMax Executive folder.

Step 5. The following line will be added to the AUTOMAX.INI file by the install procedure:

EXEC\_DRIVE=<DRV>:\<RPE>\<AMX4>
Beta = Yes

where <drive:\subdirectory> is the drive and subdirectory where the Executive software was installed.

Step 6. When the installation has been completed, a message will be displayed.

# 6.0 INSTALLING ADDITIONAL 5-USER LICENSES FOR SHARED-USER EXECUTIVE SOFTWARE

The number of users having access to the shared-user Executive software on a network can be increased by using the additional 5-user license (M/N 57C627). The shared-user Executive software must already exist on the network.

Use the following procedure to add five users to the shared-user Executive.

Step 1. Insert the Executive software disk labeled "Add Users" in floppy drive A: or B:.

Type A:\ADDUSER <CR> or B:\ADDUSER <CR>

You will be prompted for the network server directory where the Executive software is located.

Step 2. Enter the directory path, e.g., <DRV>:\<RPE>\<AMX4>.

The current number of users will be displayed and you will be prompted for the new user limit.

Step 3. Enter the old number of users plus 5. (five maximum with each license).

The new total number of users will be displayed.

Step 4. If you have shared-user DPS software, you must also install additional DPS licenses in order to be able to access DPS features on the five new network nodes.

# 7.0 INSTALLING THE OPTIONAL SINGLE-USER DPS SOFTWARE

The single-user DPS software is required for programming, monitoring, and loading operating systems to DPS drives. Five model numbers are available: M/N 57C651, 57C652, 57C653, 57C654, and 57C655.

Each model number contains the software required for one drive product and its associated regulators and must be installed separately. The single-user Executive software must be installed before the single-user DPS software.

Use the following procedure to install the DPS software options, one at a time.

Step 1. To begin installing the DPS software, insert the disk labeled "1" in floppy drive A: or B:.

Click Start, then click Run, and then type:

<DRV>:\INSTALL.EXE

### where:

<PRV> is the floppy drive in which you have placed the disk.

Click "OK" to begin the install procedure.

Before installing any files, the install program will display two messages. The first message describes the type of installation (Single-User); the second lists the number of disks required for the install procedure and the amount of hard disk space required for the DPS software.

Step 2. You will be prompted for the drive and subdirectory in which to install the DPS software. The defaults are as follows:

<DRV>:\<RPE>\<AMX4>

### where:

- <DBV> is the hard drive where Windows is installed
- <RPE> is the ReSource subdirectory
- <AMX4> is the AutoMax V4.1 subdirectory

You can make changes to any of the above parameters. Note that the DPS software must be installed in the same directory as the Executive software.

Step 3. If a UDC task skeleton file (SKELETON.UDC) is found in the install directory, the install procedure will display a message stating that the existing UDC task skeleton file (SKELETON.UDC) has been re-named to USKELTON.UDC.

The install procedure will install a new task skeleton file (SKELETON.UDC). After the install procedure is completed, you must update the new skeleton file with any custom information from your old skeleton files (USKELTON.UDC), and then delete the old skeleton file. If you are installing multiple DPS software options, update the new skeleton file after all options have been installed.

Step 4. The install procedure will begin writing files to your hard drive. After disk 1 is installed, you will be prompted to replace disk 1 with the floppy disk labeled "2", and so forth for the remaining diskettes. Be sure to respond appropriately each time to the "OK" prompt to continue the installation. Important: Insert only floppy disks 1, 2, and 4. Do not insert disk 3. It is used for Runtime software only. The DPS software will occupy approximately 2 MB, depending on the option, of memory on the hard disk when installed.

You can abort the installation procedure at any point by selecting F3 <Exit>.

Step 5. A text file, README.DPS, contains information on the features in the current DPS software. You will be prompted for whether you want to read the file or not. If you select "Yes", the file will be displayed. If you select "No", you can read or print out the file later by selecting README.DPS from the <AMX4> directory list using the Windows Explorer.

Another text file, README.00n provides information on the specific DPS option you are installing. You can read or print out this file in the same way as README.DPS.

- Step 6. When the installation has been completed, a message will be displayed.
- Step 7. Install any other DPS software options required for your application using steps 1-6 again.

For future installations of DPS software, remember to update the new skeleton file with any custom information from your old skeleton file and then delete the USKELETON file from the <AMX4> directory.

# 8.0 INSTALLING THE OPTIONAL SHARED-USER DPS SOFTWARE

This chapter describes how to install the shared-user version of the DPS software. The shared-user DPS software allows up to five users to simultaneously run the Executive software with DPS software options. The software is installed on the network server only.

Prerequisites for Installation

- You must install the shared-user Executive software before installing the shared-user DPS software.
- You must install the separately-purchased single-user DPS software option(s) required for your application. Any number or combination of DPS software options is permitted.
- IMPORTANT: The installation procedure for M/N 57C650 below is used when you initially install the shared-user DPS software. If you have purchased M/N 57C650 for the purpose of adding additional users to an existing shared-user DPS installation, you must use the procedure described in chapter 9.

During the installation procedure, the following subdirectories will be created on the network hard disk if they do not already exist:

<DRV>:\RPE\<AMX4>

<DRV>:\RPE\<AMX4>\TEMP

<DRV>:\AMXWORK

Install the shared-user DPS software on the network server following the directions below. This procedure must be performed before installing the shared-user DPS software on each network node.

Step 1. To begin installing the DPS software, insert the disk labeled "1" in floppy drive A: or B:.

Click Start, then click Run, and then type:

<DRV>:\INSTALL.EXE

### where:

<DRV> is the floppy drive in which you have placed the disk Before installing any files, the install program will display two messages. The first message describes the type of installation (Single-User, even though this is the Shared-User software); the second lists the number of diskettes required for the install procedure and the amount of hard disk space required for the DPS software.

Step 2. You will be prompted for the drive and subdirectory in which to install the software. The defaults are as follows:

<DRV>:\<RPE>\<AMX4>

where:

<DRV> is the network drive where Windows is installed <RPE> is the ReSource subdirectory <AMX4> is the AutoMax V4.x subdirectory

You can make changes to any of the above parameters. Note that the DPS software must be installed in the same path of the Shared-User Executive software.

Step 3. If a UDC task skeleton file (SKELETON.UDC) is found in the install directory, the install procedure will display a message stating that the existing skeleton file (SKELETON.UDC) has been re-named to USKELTON.UDC.

The install procedure will install a new skeleton file (SKELETON.UDC). After the install procedure is completed, you must update the new skeleton file with any custom information from your old skeleton file (USKELTON.UDC), and then delete the old skeleton file.

Step 4. The install procedure will begin writing files to the network server hard drive. After disk 1 is installed, you will be prompted to replace disk 1 with the floppy disk labeled "2", and so forth for the remaining diskettes. Be sure to respond appropriately each time to the "OK" prompt to continue the installation Important: Insert only floppy disks 1, 2, and 4. Do not insert disk 3. It is used for Runtime software only. The DPS software will occupy approximately 2 MB, depending on the option, of memory on the hard disk when installed.

You can abort the installation procedure at any point by selecting F3 <Exit>. If you abort the installation procedure, you must delete all of the files in the <AMX4> and <TEMP> subdirectories.

- Step 5. A text file, README.DPS, contains information pertaining to using the DPS software and the Executive software as a shared program on a network. You will be prompted for whether you want to read the file or not. If you select "Yes", the file will be displayed. If you select "No", you can read or print out the file later by selecting README.DPS from the <AMX4> directory list using the Windows Explorer.
- Step 6. A message will be displayed stating that the installation is complete. You have the option of closing Windows and returning to DOS or returning to the Windows Program Manager.

For future installations of DPS software, remember to update the new skeleton file with any custom information from your old skeleton file and then delete the USKELTON file from the <AMX4> directory.

# 9.0 INSTALLING ADDITIONAL 5-USER LICENSES FOR SHARED-USER DPS SOFTWARE

The number of users having access to the shared-user DPS software on a network can be increased by installing as many 5-user licenses (M/N 57C650) as required. The shared-user Executive and DPS software must already exist on the network.

IMPORTANT: The installation procedure for M/N 57C650 below is used when you have purchased M/N 57C650 to add additional users to an existing shared-user DPS installation. If you are installing M/N 57C650 for the first time to allow up to 5 users to run the software, you must use the procedure described in chapter 8 instead.

Use the following procedure to add 5 additional DPS users to the shared-user Executive.

Step 1. Insert the DPS software disk labeled "Add Users" in floppy drive A: or B:.

Type A:\ADDUSER <CR> or B:\ADDUSER <CR>

You will be prompted for the network server directory where the Executive software is located.

Step 2. Enter the directory path, e.g., <DRV>:\<RPE>\<AMX4>.

The current number of users will be displayed, and you will be prompted for the new user limit.

Step 3. Enter the old number of users plus 5 (five maximum with each license).

The new total number of users will be displayed.

# 10.0 RUNNING THE EXECUTIVE SOFTWARE

Once you have installed the Executive software, you can run it by selecting the AutoMax Programming Executive icon from the AutoMax V4 program folder.

When you run the Executive software, the first screen displayed after the name and copyright information is the System Configurator screen. From this screen, choose the Setup menu and then select AutoMax to run the AutoMax setup procedure. See the Executive software instruction manual, J2-3102, for how to perform the setup procedure.

## For Personal Computers with Other AutoMax Executives Installed

You can install and run version 4 of the AutoMax Executive software on the same personal computer with any other version of the Executive if you have configured Windows 95 to multiboot to DOS and have Windows 3.1 installed separately. To run AutoMax V4, you must boot up in Windows 95; to run any of the version 3 Executives, you must boot up in DOS and then run Windows 3.1. Note that you cannot run different versions of the Executive simultaneously.

### Running Two Versions of V3.5 and V 3.6

The Executive software contains a utility program named AMX3RUN. With this program, you can run different versions (V3.5 and V3.6) of the Executive software without changing your AUTOMAX.INI file. Follow these steps to use AMX3RUN:

- Step 1. Install the AutoMax Executive software (V3.5 or V3.6).
- Step 2. Copy AMX3RUN.EXE from your AutoMax V4.x directory to your V3.5 (or V3.6) directory. For example:

C:\> COPY C:\RPE\AMX4\AMX3RUN.EXE C:\RPE\AMX35A

- Step 3. Change the properties for the V3.5 (or V3.6) Executive in Windows 3.1.
  - a. Double-click the AutoMax V3.5 (or V3.6) group icon.
  - b. Click AutoMax V3.
  - c. Click the File menu, and then select Properties.
  - d. Change the Command line from:

C:\RPE\AMX3\II.EXE

.0

C:\RPE\AMX3\AMX3RUN II.EXE

 Repeat for AMX DB Update, Net In, and Token Manager. Do not change GenBM or Read Me.

### Running Two Versions, V3.0A to V3.4E

Close Windows 3.1 and change the DCSEXDRV environment variable in the AUTOEXEC.BAT file when you want to switch between the two versions. Reboot your computer. Then restart Windows 3.1.

### Running Two Versions, V3.5 or Later and V3.0A-V3.4E

No special commands are required. Simply click the desired icon.

### Running Two Versions, V3.x and V2.x

No special commands are required. Click the desired icon to run V3. Type AUTOMAX2 at the DOS prompt to run V2.

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