

Enhanced Fix Installation Utility (Fixins)

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1.1 Fixins Enhancements

Fixins has been enhanced to operate more like the update routine. In addition to installing programs and updating database structures, Fixins will:

- Reindex the system if a database update is attempted
- Ask for a keycode
- Ask the user if they have made a fully verified backup
- Unzip the zip file in the hostplus\tempdist directory, if one exists

But,

- Fixins will NOT back up files.

1.2 Zip File (Patch)

The software librarian will maintain one "patch", in zip file format, which can be downloaded from the web. The zip file is the latest patch to the latest release of ^{SMS} | Host. The patch will be stored on the web in two different forms of zip files: one for AIX and one for DOS.

The zip file name is **XXXXMMDD** where:

- **XXXX** is the version of the last release of ^{SMS} | Host (not the ^{SMS} | Host system to be updated) and
- **MMDD** is the date that the Software Librarian compiles the zip file.

For example, if the software librarian compiled an update patch on 12/17/99, our Web site would contain a file named **12001217.exe** for DOS and **12001217.z** for AIX.

1.2.1 Zip File Contents

The zip file may contain any of the following (It must contain at least one of them):

1. A FXP16 subdirectory of Fox 2.6 compiles that are fixes for character HOST.
2. A FXP32 subdirectory of Fox 6.0 compiles that are fixes for character HOST.
3. A DBO subdirectory of Recital compiles that are fixes for character HOST.
4. The root can contain a set of host .dbf, .ltr, .fpt and .dbt files.

5. A set of Fox 2.6/Recital executables that can be run at needed points during the update to initialize database fields or memory variables (Fix1.fxp/dbo, Fix2.fxp/dbo or Fix3.fxp/dbo).

The zip file must also contain the following:

6. A upglvers.mem file. This will be used to verify that the patch file was not tampered with and to update the HOST version number. (NOTE: foxpro and recital .mem files are not compatible.)

1.3 Considerations

- Fixins will delete the **tempdist/dbo** directory (**tempdist/fix16** & **tempdist/fix32**)
- The tempdist directory will still remain, but all files will be deleted
- The new key code is now 17 numbers/characters long:
Date – 3 characters Serial # - 6 characters Patch File Name = 8 characters
- Fixins cannot be run in Visual FoxPro.
- The 12.0 version of fixins is backward compatible with previous versions of ^{SMS} | Host. The current version of fixins can be used in all ^{SMS} | Host systems.
- Fixins cannot be used to install the FoxPro 2.6 runtime files (**Foxr.exe**, **foxd2600.es1**, **foxd2600.eso** and **foxdx260.es1**)
- Fixins will not overwrite 'custom' programs. It will delete a 'custom' .fxp/dbo from tempdist\fix* to prevent the file from going into live (**IN-PRG**, **IN-FOLHD**, **IN-FOLLN**, **IN-FOLFT**, **IN-PLBL**, **IN-MSGFM**, **IN-FCRCT**, **IN-FOLSB**, **GC-GIFRM**, **MR-ECHEK**, **IN-KLOCK**, **IN-VCHFM**, **BG-VOUC**)
- **In_ctry.dbf**, **prompts.dbf**, **sypiklst.dbf**, **sypikinf.dbf**, **prompts.dbf** and **menuitem.dbf** are copied into system and overwrite copy in live system. They are 'static' files that do not contain customer-generated data. All other databases are used to update structures of live data.
- Fixins can still be run without a zip file. Just eliminate the **XXXXMMDD** at the end of the key code.

1.4 Setup

1. Go to the **HOSTPLUS** command prompt.
2. Create **hostplus\tempdist** subdirectory.
3. Create **tempdist\fxp16**, **tempdist\fxp32** and **tempdist\dbo** as needed.
NOTE: Only create directories for which you have files.
4. Upload new files to appropriate **tempdist** subdirectory.
5. Install **fixins.fxp/dbo** and **upproc.fxp/dbo** in the **hostplus\fxp16(dbo)** directory. In addition, **syfilerd.fxp/dbo** must live in the **hostplus** system. This file will already exist at sites on 11.0b and greater.
6. Files of the following types destined for the **hostplus** directory should be placed in the **tempdist** directory:
 - .ltr
 - .dbf
 - .fpt
 - .dbt

If a new zip file is available, it will be placed here in **tempdist**.

7. New FoxPro 2.6 .fxp's destined for the **hostplus\fxp16** directory should be placed in the **tempdist\fxp16** directory.
8. New Visual FoxPro 6.0 .fxp's destined for the **hostplus\fxp32** directory should be placed in the **tempdist\fxp32** directory.
9. New .dbo's destined for the **hostplus\dbo** directory should be placed in the **tempdist\dbo** directory.

IMPORTANT: Fixins cannot distinguish a Fox 2.6 .fxp from a Fox 6.0 .fxp. The proper compile must be put in the appropriate directory. Fixins will not detect a mistake.

^{SMS} | Host will not work if a Fox2.6 compile is installed in the fxp32 directory or visa versa.

1.5 Execution

For 12.0, the customer will be instructed on running fixins. The customer will follow the *Updating^{SMS} / Host to the Latest Build Using the Fixins Utility* instructions.

1. Make a verified backup of the system.

2. **From the hostplus command prompt enter:** foxx +x fixins (DOS) or db -x fixins (AIX)

3. The user will be prompted to make sure that they have made a backup:

Have you made a verified backup of HOST? (Y/N).

This question cannot do any verification it is a REMINDER only.

4. The user will be prompted for a key code, as they are when they run a version update.

The customer calls support for an Update Key Code. If a zip file is available, a Support Specialist simply adds **XXXXMMDD** to the standard key code.

The update will use current logic to verify that the 'current key' code is correct. The update **MUST** find a **XXXXMMDD** file in the hostplus/tempdist directory that matches the **XXXXMMDD** patch code.

If not, it will prompt the user to get the zip file and cancel the fixins process.

5. Immediately after the user enters a 'key' code with a 'patch' code attached the update will verify that the patch file exists and can be successfully unzipped.

The update will also inspect the contents of 'FLAG' file (upglvers.mem) contained in the zip file to verify that the file was not tampered with.

6. A Support Specialist may stay on the phone to make sure the zip file was successfully unzipped and not tampered with. If the following prompt appears, the process was successful and the Support Specialist can end the call: **Rebuild Historical HOST indexes during update? (Y/N)**

7. The following prompt will appear:

Rebuild Historical HOST indexes during update? (Y/N)

The site can choose to have historical indexes built automatically or to skip them.

8. Special Reindexing will run.
9. Fixins will terminate with an **Update Process Complete** prompt.

1.6 Troubleshooting

- 1.6.1.1 When AIX users download the .Z file from the web the .Z may have transformed to a .z. AIX can't unzip a .z file. Fixins will convert the .z to .Z, but be aware that some exceptions may occur.
- 1.6.1.2 At the beginning of the Update routine, a black box displays a message that contains the text 'Current or Newer Age ...'. This message will increase in length as the zip file size increases. This message indicates that fixins is analyzing the zip file and unzipping it.
- 1.6.1.3 The user running the update must be logged in as ROOT.
- 1.6.1.4 If the zip file cannot be unzipped correctly, fixins may display the following errors in Recital 8.0:

```
** An error has occurred **  
Error Number: 0  
Error Text:  
/usr/recital/test/hostklk/tempdist/12001105.Z does not  
contain upg  
Error Text1: Update process cancelled  
Program Name: UNCODEZIP  
Line Number: 3833
```

Enter C to Cancel

In this situation, upglvers.mem doesn't exist, so fixins won't update.

If the zip file has been corrupted, the following message appears

```
Verifying zip file integrity.....
```

and then:

```
** An error has occurred **  
Error Number: 0  
Error Text:  
/usr/recital/test/hostklk/tempdist/12001105.Z cannot  
be unzipped  
Error Text1: Update process cancelled  
Program Name: UNCODEZIP  
Line Number: 3863
```

Enter C to Cancel

NOTE: Different errors may blow on different versions of AIX or in DOS

- 1.6.1.5 If the zip file's date is different than the date section of the update code, the following message appears:

Tempdist does not contain 12001106.Z.

This file is required For the update to continue.

The update instructions contain the steps for obtaining this file.

NOTE: Support should ALWAYS give a patch code that matches the latest zip file available.