QUIPU-6.8

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ABSTRACT

ISODE and QUIPU version 6.8 (isode-interim) have now been released. This is a note to explain the X−Tel position regarding support QUIPU-6.8 in terms of the JNT Directory Pilot and how to upgrade from your current version of QUIPU to QUIPU−6.8.

1. Support

ISODE−6.8 which contains QUIPU−6.8 has just been announced on the QUIPU mail list (called isode-interim). It is available to the JNT pilot sites. There are a lot of new features, including: attribute inheritance; spot shadowing; DSA relaying; indexed searching; alias management tools; user friendly naming; the "dsc" DUA; X−Windows DUAs; Directory replacement for isoservices and isoentites; DSA log processing scripts; and "pepsy" all rolled in.

You should currently be running QUIPU−6.1. If you are and are happy with the way it is running, then you do not *need* to upgrade to 6.8, although you lose out on the benefits and extras. X−Tel will continue to support 6.1.

If you decide to upgrade to QUIPU−6.8, X−Tel will offer you full support.

There is a caveat if you decide to stay with QUIPU−6.1. If you report a complex problem with your system that can not be easily remedied, X−Tel will require you upgrade to QUIPU−6.8. If this does not solve the problem, obviously, we will investigate further. It is doubtful that this situation will ever occur, as the "standard" problems with QUIPU−6.1 are well known, with known fixes.

We will no longer support the QUIPU−6.0 version. If you are still running with QUIPU−6.0 (yes, there are still some sites), you must either go to QUIPU−6.1 or QUIPU−6.8, the choice is yours (we will help with the upgrade of course), although we suggest 6.8.

Some sites have taken intermediate beta test versions of QUIPU, these are not supported.

QUIPU−6.8 is a beta release for QUIPU−7.0, which will be available in a few months time. When available, all JNT Pilot sites will be required to upgrade to QUIPU−7.0.

1.1. Support Summary

ISODE Version	Support	Comments
6.0	None	Upgrade to 6.1 or 6.8 NOW
6.1	Yes	Complex problems may require an upgrade to 6.8
6.8	Yes	The suggested version.
7.0	When Available	Will be required

Versions of the ISODE not listed above are NOT supported, you should upgrade to 6.8.

2. Upgrading ISODE-6.1 to ISODE-6.8

There is a script from X−Tel to upgrade your ISODE version from 6.1 (or 6.0) to 6.8. This is available from X-Tel via ftam in a file called **upgrade-6.8.shar** in the **quipu** directory (there is also a compressed version upgrade-6.8.shar.Z). Recover this shell archive file and place it in the top level of the isode home directory, and unwrap it:

```
cd ˜isode
ftam -h -u anon 00002100102999 get quipu/upgrade-6.8.shar upgrade-6.8.shar
sh < upgrade-6.8.shar
```

This will create a directory called "upgrade-6.8". Go into this directory:

```
cd upgrade-6.8
```

(In this directory you will find the source of this note!)

2.1. Getting ISODE-6.8

The first step is to get the new ISODE tar file onto the directory machine! The FTAM and NIFTP access information is given in the announcement. You should place the file in the top level of the isode home directory in a file called **isode–6.8.tar.Z.**

Alternatively, you can ftam the file from X-Tel by entering the

```
./make ftam-6.8
```

command in the upgrade-6.8 directory.

2.2. Disk Space

The amount of disk needed to build this version of the ISODE depends on the operating system you are using. Under SunOS4.1 or greater, about 45 Mbyte is needed. With an earlier version of SunOS, approximately 55 Mbyte is needed (shared libraries make a big difference!).

The script will "clean" the old ISODE source and check there is sufficient space (there should be!). If there is not sufficient space, you could consider removing the ISODE-6.0 tree completely.

If you have kept the "isode-6.0.tar.Z" or "isode-uk.tar.Z" files, and the "quipu-upgrade.tar.Z" file, you can remove these as they are obsoleted by this version of the ISODE.

2.3. Compiling

If your system is a default ISODE installation (it will be unless you have altered parameters in the CONFIG.make and config.h files) you can now type:

```
./make
```

in the upgrade-6.8 directory.

This will unwrap the new ISODE, ensure there is sufficient disk space and compile the new ISODE. This may take an hour or so!

If you changed any of the configuration options in the CONFIG.make file or the config.h file of the previous ISODE release, you should make similar changes to the files **ukdir.make** and **ukdir.h** in the upgrade-6.8 directory before running make. If you are running SunOS-4.1, you should NOT put the shared library options in the ukdir.make file. This installation will make the necessary shared library changes for you.

If your quiputailor file is NOT **quiputailor** in the ISODE’s etc directory (usually /usr/etc or /usr/local/etc), you will need to edit the

```
QUIPUTAILOR=	$(ETCDIR)quiputailor
```

line in the upgrade-6.8/Makefile to show the absolute path name of the quiputailor file your DSA uses.

2.4. Installing

The next step is to install QUIPU. If you have PP installed you will need to configure a few things (see the Section 3 BEFORE installing). To install (you will need to be root), type:

> **su**
> **./make install**

in the upgrade-6.8 directory.

Please note, normally the ISODE installation process overwrites your dsaptailor and quiputailor files with new ones. You then have to go and restore the old ones. This Makefile knows about this problem, and restores the old ones after the installation! In case of problems, all the original ISODE tailor and configuration files are copied into an "archive" directory. If you need to restore any of these files, you are advised to contact X−Tel first, as it is likely you have something configured incorrectly.

This process will install the ISODE, QUIPU and FTAM. If you want other parts of the ISODE (vt, pod, dsc etc)† you will have to do this yourself. The process is described in the isode−6.8/READ−ME file.

2.5. Configuring

The next step is to reboot the machine, perhaps using something like

> **shutdown -r +5 "to install ISODE-6.8"**

When the machine comes back up, you should check that the ros.quipu process has started using the "ps" command.

The final very IMPORTANT step is to upgrade the QUIPU version number. With this version of QUIPU - **your DSA will not work correctly until you do this.** The make option:

> **./make configure**

will do this for you (you will be prompted for your DSA managers password).

Having installed the standard ISODE and QUIPU, your attention is drawn to the READ−ME and QUIPU−READ−ME files in the isode−6.8 directory which describe the new features. In particular notice the sections describing how to replace to static isoentities and isoservices files with a directory lookup should be noted. It is recommended that sites register their OSI services in the directory. The READ-ME files describe a tool to register and maintain these entries. For an example set of registered services, you might consider looking at

> c=GB @ o=X-Tel Services Ltd @ cn=lancaster

in the DIT.

3. PP and ISODE-6.8

The PP−5.0 release relies on ISODE−6.0. DO NOT try to re-compile with this version of the ISODE. The old binaries will work with this new version with one exception, the definition of IXI.

If your isotailor file has a line of the following form

> **ts_interim: LOCAL-ETHER IXI**

you have a minor problem. The "make install" option will remove the IXI definition from this line of the tailor file as ISODE−6.8 does not need it, but PP does.

To prevent this option from being removed you should find the lines:

> **TAILORREMOVE=IXI**
> **#TAILORREMOVE=**

In the upgrade-6.8/Makefile, swap the hash mark so that the line looks like

† OR your own programs which WILL need re-compiling.

#TAILORREMOVE=IXI
TAILORREMOVE=

Then you can install as described.

When you run any of the ISODE or QUIPU programs they will print the warning:

duplicate prefixes for communities "IXI" and "IXI"

You can IGNORE this - it is annoying but harmless.

4. Patching

If it becomes necessary to patch this version of the ISODE, there are a few tools to help you. First of all, you should copy the patch into the **upgrade-6.8/patches** directory, for example, create a new file called

upgrade-6.8/patches/patch.1

Each new patch should be given a different name, typically this will be the name given to the patch when released.

Then in the **upgrade-6.8** directory, issue the command

./make patch

This will prompt you for the name of the patchfile relative to the patches directory (if following the example above enter the name **patch.1).** This will apply the patch and re-compile the default ISODE and QUIPU. If you have compiled other interfaces, these may need recompiling.

To install the patched ISODE and QUIPU, you will need to become **root,** then type

./make patch-install

5. OID Tables

From time to time it is worth checking that you have an up to date set of oidtables. The option

./make get-tables

will FTAM the latest tables from X-Tel. As root

./make install-tables

will install them.

6. Problems

Any problems should be reported to **jnt-quipu@uk.co.xtel** or you can telephone the "hotline" on 0602 412648.