



Tamino4 on Sun Solaris8

Installation Guide

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1 Introduction

This installation guide tells you how to install Tamino4.1.4 XML Server (Tamino4) on Sun Solaris8 64-bit (SunOS 5.8). It is written for the developers, who want to implement XML native database to their application, and especially for those who are from the open source project “MILESS/ MyCoRe” (<http://www.mycore.de>)”.

Tamino4 is a software product for XML: DB native database, which developed by Software AG (<http://www.softwareag.com/tamino/default.htm>). It enables XML documents to be stored, queried, and managed in native XML format.

This guide includes four parts: Introduction, Pre-Installation requirements, Installation guide, and After-Installation’s check. It is assumed that readers and users of installation guide are familiar with working on Sun Solaris or Unix with command line via “MindTerm”. Else, please consult “MindTerm: Installation and Usage” by Lili Tan.

This guide is based on using installation package, which gained by the Computer Center of University Essen, with the Sun Solaris License and for research purpose. This guide is also based on the implementation on the Sun Solaris machine, which described below in the Computer Center of University Essen:

Sun OS:

Sunfire2 5.8 Generic_108528_22

Sun 4u Sparc SUNW, Sun-Fire-280R

2 Pre- Installation

There is no downloadable Tamino4 installation program for Sun Solaris operating system available in internet up to now. Here is the instruction on how to order it and what should be prepared for before perform installation.

Order Tamino4 Sun Solaris License and Read the Documentation

Universities may contact the Software AG for a teaching and research license by using the address below:

SAG Systemhaus GmbH
Marketing Lehre & Forschung
Zettachring 10A
70567 Stuttgart
Telefon: +49-711-72093-132
Telefax: +49-711-72093-165

In the Tamino4 installation CD, there is not only installation program, a license file “ino414.xml”, but also Tamino4 documentation, which can be read from the CD without starting the Tamino4 installation process. They can be found in the CD under the folder:

CDROMDriver:\doc\ino\doc\install\sunins.htm.

Read the documentation carefully and make sure that the requirements are satisfied, especially, those in the following checking list:

Checking List for User Status and Soft- and Hardware Requirements

- User Status

“You must be logged on as user "SAG", and you should have the possibility of assigning root privileges to yourself using the "su" or "sudo" command.
The installation target directory (\$SAG) should not reside on an NFS mounted device.
The installation should be started in a directory that is writable and not mounted via NFS.” (s. Tamino4 Documentation)
- Hardware
 - **Processor:** UltraSPARC
 - **RAM:** 512 MB
 - **Disk space:** >= 600 MB
 - **CD-ROM drive:** A CD-ROM drive to mount the installation CD in Sun Solaris and install the software
 - **Display:** Remote terminal or X-Terminal
- Software
 - **Operating System:**
Sun Solaris Version 8
 - **JDK 1.4.1_01 or JDK 1.3.1**
JDK can be downloaded from <http://java.sun.com>.
 - **Web Browser**
A JavaScript- and an XML-capable browser, such Mozilla 1.3, Netscape Navigator 6.2 is recommending for those people, who want to test interaction with Tamino Server via graphical tool that process XML documents, such as Tamino Interactive Interface.
 - **Web Server Apache 2.0.42 or higher**
Recommended version: Apache 2.0.43 (Apache2)

The Apache2 installation file is contained in the Tamino4 CD under the folder: CDRom Deriver: \unix\sun\3rdparty\apache\“ap2043.zip”.

Install the Apache2. To start it, log on as user "sag", and assign root privileges by using the "su" or "sudo" command, and then start it, e.g.:

- Set user: sunfire2/sag: su sag
Enter password:
- Start it: sunfire2/sag: /sag/httpd2/bin/apachectl start

If Apache2 start correctly, it can be accessed via a browser by given your host name und port name, e.g.: <http://sunfire2.hrz.uni-essen.de:8080> (s.

Figure 1: Access Apache 2).



Figure 1: Access Apache2

Do not stop it, keep it running if you begin install Tamino4. In this case, the Tamino4 Install Shield Wizard can configure the Apache2 automatically for Tamino4. You do not need to configure it manually. Else, you have to read the Tamino4 installation document und configure the Apache2 manually.

○ X11 Client Library

X11 client libraries should have been installed on the Sun Solaris machine before you start the Tamino4 installation.

- **Setting Kernel Parameters**

Check in /etc/ system, if the current parameter values matches those listed below:

```
set npty=512
set pt_cnt=512

* set incode cache
set ufs_ninode=32000

* set DNL (Directory Name Lookup Cache)
set ncsz=32000

set msgsys:msginfo_msgmap=512
set msgsys:msginfo_msgmax=8192
set msgsys:msginfo_msgmb=64000
set msgsys:msginfo_msgmni=512
set msgsys:msginfo_msgseg=8192
set msgsys:msginfo_msgssz=8
set msgsys:msginfo_msgtql=512
set semsys:seminfo_semaem=16384
set semsys:seminfo_semap=512
set semsys:seminfo_semmni=512
set semsys:seminfo_semmns=1024
set semsys:seminfo_semmnu=1024
set semsys:seminfo_semtime=36
set semsys:seminfo_semvms=32767
set shmsys:shminfo_shmmax=512,000,000
set shmsys:shminfo_shmmni=100
```

Please keep in mind to reboot the system to make it taking effect.

3 Installation

It is supposed that, you have checked the pre-installation requirements above and the Apache2 is kept on running. You need theoretically only to follow the default installation steps:

Mount the Tamino4 installation CD on Sun Solaris

Choose Charters or Graphical Mode

Start the Installation Process

Start the installation procedure from a writable working directory, recommend \$SAG/INSTALL. Enter the command:

```
sh /mount_dir/setup.ux
```

Where mount_dir is the starting directory on the CD-ROM

The setup program is started and guides you through the installation. During installation you have to provide the license key, accept the License Agreement, and choose Type of Installation, etc.

4 After- Installation

You can check Tamino4 according to the following steps, to see if it was installed and run correctly.

- Access “Tamino Manager” with a browser:

<http://your-host-name: port-number/smh/login.htm>.

e.g. <http://sunfi: port-number/smh/login.htm>

Then input your Tamino’s account for User Name and Password to entrance into “Tamino Manager”.

- Then you can explore the “Tamino Manager” for create, start, stop, and back-up database, etc., e.g. create database “Mycore_Sample_Application” to prepare for the application of Tamino4 with “MyCoRe”. (s. Figure 5. Explore Tamino Manager)

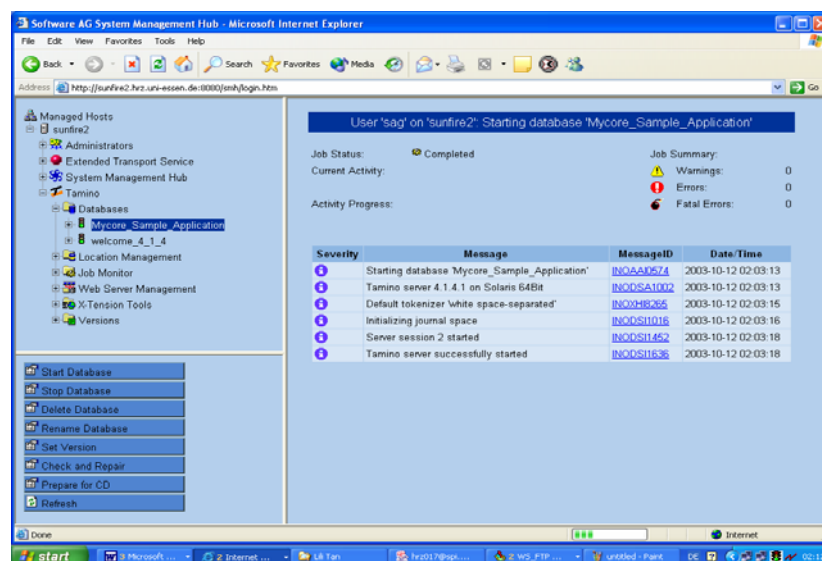


Figure 2: Exploring Tamino Manager

- A existing database “welcome_4_1_4” can be accessed by:

<http:// your-host-name: port-number/tamino-v4.1.4.1/welcome/index.html>

e.g.: <http://sunfire2.hrz.uni-essen.de:8080/tamino-v4.1.4.1/welcome/index.html> (s.

Figure 3: Tamino4 Welcome)



Figure 3: Access Tamino Welcome

- Documentation about Tamino4 can be accessed by:
[http:// your-host-name: port-number/tamino-v4.1.4.1/index.html](http://your-host-name:port-number/tamino-v4.1.4.1/index.html)
e.g.: <http://sunfire2.hrz.uni-essen.de:8080/tamino-v4.1.4.1/index.htm>
(s. Figure 4: Tamino documentation)

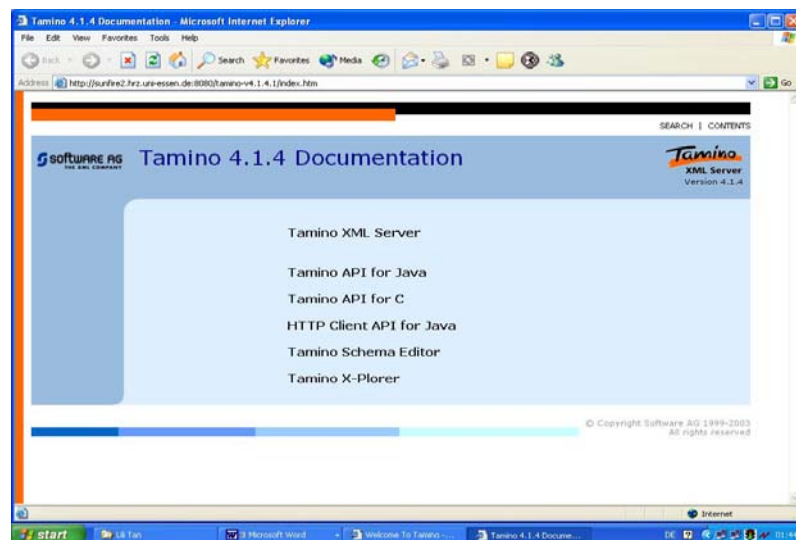


Figure 4: Access Tamino Document

- All of the above checks run correctly? Conglutination for your successful installation!
If you have any problem, please email tan@hrz.uni-essen.de, or lillitan@tiscali.de.