

*IBM Rational Team Webtop
Installation Guide
Release 1.1*

Before using this information, be sure to read the general information under Appendix A, [“Notices” on page 21](#).

This edition applies to **VERSION 1.1, IBM Rational Team Webtop** and to all subsequent releases and modifications until otherwise indicated in new editions.

© **Copyright IBM Corporation 2007, 2009**

US Government Users Restricted Rights—Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Table of contents

Introduction	1
About Rational Team Webtop	1
The Webtop components	1
The Rational Directory Server	2
DOORS Database	2
Change Database Server	2
Tau	2
The Webtop Server	2
Conventions used in this Guide	3
Installing Webtop	5
System requirements	5
The Webtop Server	5
Supported browsers	5
Java Runtime environment	6
Webtop server and disk space requirements	6
Installing the components	6
Registering the Tau application	8
Configuring Tau to listen to a particular port	9
Installing Rational Team Webtop	10
Starting the Webtop Server	12
Accessing the Webtop Server	12
Modifying the components if RDS is changed	13
Changes required for Webtop	13
Changes required for Tau	14
Changes required for Change	14
Changes required for DOORS	14
Troubleshooting	17
Problems and Solutions	17

Appendix A: Notices	21
Trademarks	24
Index	25

1

Introduction

This manual provides the information on installing and setting up the IBM® Rational® Team Webtop™.

This chapter contains the following sections:

- [About Rational Team Webtop](#)
- [The Webtop components](#)
- [Conventions used in this Guide](#)

About Rational Team Webtop

Rational Team Webtop is an exemplary implementation of a browser based composite application built on IBM® Rational® Change, IBM® Rational® Tau and IBM® Rational® DOORS®. Webtop provides a single point of entry and User Interface (UI) for users to access relevant application lifecycle data, regardless of where that data is held.

Webtop is staged as a state of the art reviewing tool that helps users to effectively carry out their review activities for the different stages of the application lifecycle data, residing under disparate repositories (For example, requirement data (DOORS), Design data (Tau) from within Webtop.

Webtop aims to replace the current solution, where, users in order to access application lifecycle data spanning multiple disciplines, are required to use multiple tools, with different user interfaces, integrated through a set of point to point integrations.

The Webtop components

Installing Webtop involves the installation of a number of discrete components. The components you need to install are:

- [The Rational Directory Server](#)
- [DOORS Database](#)
- [Change Database Server](#)
- [Tau](#)
- [The Webtop Server](#)

The Rational Directory Server

Webtop is configured to a IBM® Rational® Directory Server (RDS) instance, which acts like a central repository. The IBM® Rational® Solutions for Enterprise Lifecycle Management applications that are registered with RDS are fetched and listed in the Webtop. You need RDS version 5.0 to be installed.

DOORS Database

The Rational DOORS Database Server holds requirements data that is accessed from Webtop. You need DOORS version 9.2 to be installed.

Change Database Server

The Rational Change Database holds the work items that are accessed from Webtop. You need Change version 5.2 to be installed.

Tau

The Rational Tau holds design data that is accessed from Webtop. You need Tau version 4.3 to be installed.

The Webtop Server

The Rational Team Webtop Server is an adaptation of Apache Tomcat. Tomcat is a servlet container that executes Java® servlets and renders web pages that include Java Server Page code.

Conventions used in this Guide

Typeface	Description
<i>Italic</i>	Used for book titles and terminology.
Bold	Used for items that you can select and menu paths, also used for emphasis.
Courier	Used for commands, file names, and directory paths. Represents command syntax to be entered verbatim. Signifies computer output that displays on-screen.

2

Installing Webtop

This chapter guides you through the installation of Webtop and other depended components on Windows and Unix platforms.

This chapter contains the following sections:

- [System requirements](#)
- [Installing the components](#)
- [Registering the Tau application](#)
- [Configuring Tau to listen to a particular port](#)
- [Installing Rational Team Webtop](#)
- [Starting the Webtop Server](#)
- [Accessing the Webtop Server](#)
- [Modifying the components if RDS is changed](#)

System requirements

This section contains the system requirements for Webtop.

The Webtop Server

The Webtop server is supported on following operating systems.

- Windows 2003 Server Standard Edition R2
- Windows XP
- Windows 2003 Server Enterprise Edition SP1 (32 Bit)
- Sun Solaris 10 (64 bit)
- Red Hat Linux Enterprise 5

Supported browsers

Webtop is supported on the following browsers and Windows operating systems.

- Internet Explorer 6 and above on Windows XP and Windows 2003
- Internet Explorer 7 on Windows Vista Enterprise
- Firefox 3 and above on Windows XP and Windows 2003 and Red Hat Linux 5

Java Runtime environment

You must have JRE 1.5 or later installed on your machine to run the Webtop installer.

Webtop server and disk space requirements

The installation machine hosts the Webtop server. The following table shows the minimum machine and disk space requirements.

Hardware requirements	Memory and disk space and requirements
<ul style="list-style-type: none">• Two Intel Xeon 3.066 GHz CPUs with hyperthreading• 73+146 GB Hardware RAID-1 HDD	<ul style="list-style-type: none">• 4 GB RAM• At least 500 MB free disk space

Installing the components

This section provides instructions to install and configure the components you need to run Webtop. You can install the components on different machines than where Webtop is installed.

For more information on the components, see [The Webtop components \(page 1\)](#).

To install and configure the Webtop components:

1. Check that you meet the system requirements for installing and running Webtop.
2. Shut down all other applications.
3. Install **RDS 5.0server**. For information on installing a RDS server, refer to platform specific *RDS Installation Guide*.

Take note of the following details for use later in the procedure:

- RDS Server Host
 - Port
 - Admin username
 - Admin user password
4. Install the **Rational DOORS ERS 9.2** Database Server.
 - a. Choose the machine where you want to install the DOORS server.

Registering the Tau application

To register the Tau application:

1. Open any Tau project.
2. Go to **Tools > Customize > Add-ins** and click the check box against **Webtop addin**.
3. Open **Tools > Options**.
4. Go to **External Relationships** tab, and click the check box against **Enable External Relationship Support**.
5. Type the following details:
 - Published Project Name
 - RDS Host/IP
 - RDS port

For example:

SampleTauProject

RDSserver

1389

where *SampleTauProject* is a published project name, *RDSserver* is the host name of the machine where RDS is running and *1389* is the RDS port number.

6. Click **Publish Project**.

The **Publish Project** dialog box is displayed. Edit the values in the dialog box if you want or accept default and click **OK**.

Configuring Tau to listen to a particular port

By default, Tau listens to port 57000. If during the Tau Application Registration process, the Tau repository is registered using a port other than the default port i.e. 57000, then Tau needs to be started with a specific option to listen to the user defined port.

To start the Tau server on a specific port:

On Windows:

1. Right click the Tau icon on desktop.
2. Select **Properties**.
3. In the target textfield, append `-port 57001`

Where 57001 is the desired port.

For example:

```
"C:\Program Files\Rational\TAU_4.3\bin\VCS.EXE" -port 57001
```

On Solaris:

Start Tau from bash shell using `tau.sh` file and append the user defined port number to it.

For example:

```
$ tau -port 57001
```

where 57001 is the desired port.

Installing Rational Team Webtop

Once you have setup all the components for Webtop, you can start with the Webtop installation.

Note The DOORS server, DOORS interoperation, Tau and Change database can be deployed to run on a different machine than the Webtop server.

To install Webtop on **Windows**:

1. Download the Webtop installer from the support website.
2. Run the Webtop installer.
3. Run the **dwaBroker.start.bat** script located under **<Webtop_Home>** to activate the ActiveMQ broker.

The DWA broker is the DOORS Web Access broker. The DWA broker is installed along with Webtop.

4. Stop the DOORS Database Server running as a Windows service using the Control Panel.
5. Start the DOORS Server in a DCN enabled mode as:

```
<DOORS_HOME>/bin/doorsd.exe -start -dcnEnable -dcnBrokerUri  
"tcp://<brokerHost>:61616" -dcnChannelName "dcn".
```

Where the **brokerHost** value points to the host where the ActiveMQ broker has been started. The default port is 61616).

Note Hostname or IP address should be used wherever applicable and not localhost or 127.0.0.1

6. Start the DOORS client in an interoperation mode using the following commands:
 - If the DOORS server, DOORS interoperation and broker are running on a different machine, the command to start the DOORS client is:

```
<DOORS_HOME>/bin/doors.exe -interop -data port@host  
-brokerHost <BrokerHost> -brokerPort <BrokerPort>
```

Where **host** is the hostname where DOORS server is running, **BrokerHost** is the hostname of the machine where broker is running and **BrokerPort** is the port where broker is running.

For Example:

```
doors.exe -interop -data 36677@exampleServer -brokerHost  
mybroker -brokerPort 12345
```


- If the DOORS interoperation is run on the same machine as broker, the command to start the DOORS client is as follows:

```
<DOORS_HOME>/bin/doors.exe -interop -data port@host
```

For example:

```
doors.exe -interop -data 36677@exampleserver
```

- If the DOORS interoperation is run on the same machine as broker and DOORS server, the command to start the DOORS client is as follows:

```
<DOORS_HOME>/bin/doors.exe -interop
```

For example:

```
doors.exe -interop
```

7. Open the **festival.xml** file from:

```
<Webtop_HOME>/webtopServer/festival/config directory.
```

8. Edit the following values with the location of your RDS server and the RDS admin login credentials.

```
<f:property name="tds.server.host" value="TDS hostname"/>
```

9. Modify the following values:

```
<f:property name="dwa.server.host" value="Webtop server"/>.
```

The value should be replaced with the appropriate hostname of the Webtop Server.

To install Webtop on **Solaris and Linux**:

1. Download the Webtop installer from the support website.
2. Run the Webtop installer.
3. Run the **configure-webtop.sh** script.
4. Run the **dwaBroker.start.sh** script located under **<Webtop_Home>** to activate the ActiveMQ broker.

The DWA broker is the DOORS Web Access broker. The DWA broker gets installed along with Webtop.

5. Follow [step 5](#) through [step 9](#) of **To install Webtop on Windows** section to complete the installation.

Note The **festival.xml** file is located under the following path on Solaris and Linux:

```
<webtop_Home>/solaris/webtopServer/festival/config
```

```
<webtop_Home>/linux/webtopServer/festival/config
```

Starting the Webtop Server

To start the Webtop server on Windows:

Run the `WebtopServer.start.bat` script located under `<Webtop_Home>`.

To start the Webtop server on Solaris and Linux:

Run the `WebtopServer.start.sh` script located under:

On Solaris, `<Webtop_Home>/solaris`

On Linux, `<Webtop_Home>/linux`

Accessing the Webtop Server

Make sure that you have installed all the required components and started the Webtop server.

To access the Webtop, type the following URL:

`http://<WebtopHost>:8080/webtop`

Modifying the components if RDS is changed

If you have installed newer version of RDS, you need to make changes to Webtop and other components. This section provides the details on the changes that need to be done.

Changes required for Webtop

1. Shut down the Webtop server using the **webtopServer.Shutdown.bat** script from the root folder.

For example:

```
C:\ProgramFiles\Rational\Team Webtop
1.1\webtopServer.Shutdown.bat
```

2. Delete **rds.xml** from:

```
<WEBTOP-Home>\WebtopServer\webapps\webtop\
WEB-INF\classes\
```

3. Start the Webtop server using the **WebtopServer.start.bat** script located under **<Webtop_Home>**.

4. Open Webtop by providing the appropriate URL.

For example:

```
http://examplehost:8080/webtop
```

5. In the **Welcome** screen, type the RDS details. The following table describes the field details:

Field name	Description	Example value
Username	Administrator user. The user must be a valid Rational Enterprise Lifecycle Management user.	admin
Password	Password for the administrator user.	pass123
RDS Location	Host name or IP address of the server where RDS is running.	RDSServer1

Field name	Description	Example value
RDS Port	RDS port number	1389
Is RDS Port SSL Enabled	To enable SSL authentication	Check this option if you want to authenticate securely using SSL

Note If **Is RDS Port SSL Enabled** check box is checked and a non-SSL port number is provided in the **RDS Port** field, or if a SSL port number is given in the **RDS Port** field and the check box is not checked, the login will fail.

Changes required for Tau

1. Shut down Tau.
2. Register Tau application with new RDS.

For more information on registering with RDS see, [Registering the Tau application \(page 8\)](#).

Changes required for Change

1. Stop the **Change Server**.
2. Delete **rds_application_registry.xml** from the following path:
<CHANGE-HOME>/cs_app/webapps/synergy/WEB-INF/wsconfig/
3. Delete **rds_config.xml** from the following path:
<CHANGE-HOME>/cs_app/webapps/synergy/WEB-INF/wsconfig/
4. Start the **Change Server**.
5. Go to <MACHINE-NAME>:<PORT>/admin, where, the details of machine name and port are those where Change server is running.
6. Re-enter RDS details.

Changes required for DOORS

1. Remove **rdsregistration.txt**, **rds_valid_id.txt** from
<DOORS-ERS-HOME>/data
2. Start the DOORS server from **Services** menu.

3. Open the DOORS client and change the RDS path to point to the new RDS.
4. Delete `rds.xml` from the following path:
`<WEBTOP-Home>\WebtopServer\webapps\webtop\WEB-INF\classes\`
5. In the `festival.xml`, change the RDS entries to point to the new location.
6. Stop the DOORS server from the **Services** menu.
Make sure the service by name **DOORS DB Server 9.2** is stopped and its startup type is Manual using the `services.msc` command or by selecting **Control panel -> Administrative tools -> Services** option.
7. Start the DWA broker by double-clicking the **dwaBroker.start.bat** file.
8. Start the DOORS server in a dcn enabled mode as:
`<DOORS_Home>/bin/doorsd.exe -start -dcnEnable
-dcnBrokerUri "tcp://<brokerHost>:61616"
-dcnChannelName "dcn".`
For example:
`C:/Program Files/Rational/DOORS 9.2/bin/doorsd.exe -
debug -dcnEnable -dcnBrokerUri "tcp://127.0.0.1:61616"
-dcnChannelName "dcn"`
9. Start DOORS Interop as:
`<DOORS_Home>/doors.exe" -interop -data
<port>@<IP address of the machine>`
For example:
`"C:/Program Files/Rational/DOORS 9.2/bin/doors.exe" -
interop -data 36677@192.168.123.1`
10. Start the Webtop server by running the **WebtopServer.start.bat** script located under **<Webtop_Home>**.

3

Troubleshooting

This chapter describes the possible problems and solutions for Rational Team Webtop.

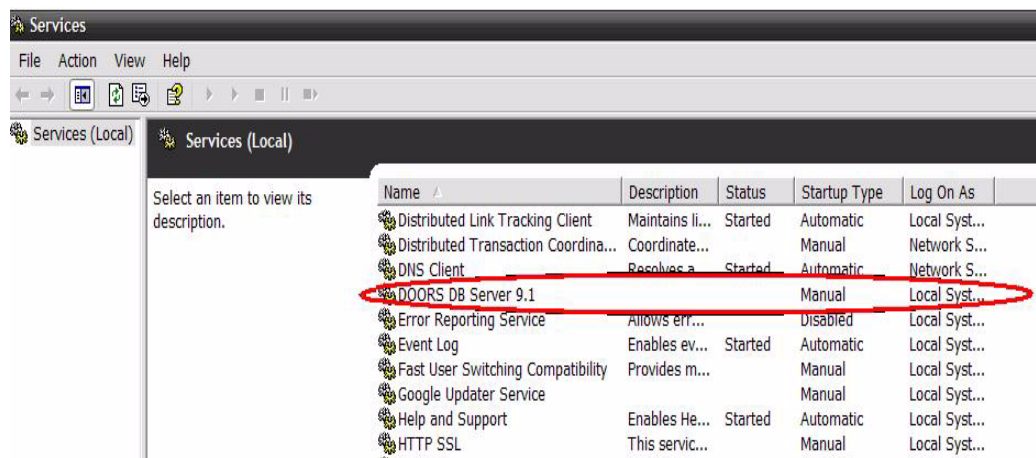
Problems and Solutions

The following error is displayed while configuring DOORS: "ERROR: Serious Error Encountered! Please Check Configuration data and make sure that DOORS is up and Running".

Follow the steps given below to resolve the issue:

- a. Stop the DOORS server, broker and Interop.
- b. Make sure the service by name **DOORS DB Server 9.2** is stopped and its startup type is Manual using the `services.msc` command or by selecting **Control panel > Administrative tools > Services** option.

See the following sample screen shot for details.



- c. Search for the `rds_valid_id.txt` in the hard disk:
 - If TLS 2008 suite is installed say in `D:/Rational/.....` try looking for the `rds_valid_id.txt` in `D:/Databases/DOORSdbs`

- If DOORS is installed say in C:/Program Files/Rational/
..... try looking for the rds_valid_id.txt in C:/Program
Files/Rational/DOORS 9.2/data
- d. Delete or rename rds_valid_id.txt.
- e. If DOORS needs to point to a different RDS, the
rds_registered.txt file can be deleted or renamed.
- f. Start the DWA broker by double-clicking the **dwaBroker.start.bat** file.
- g. Start the DOORS server in a dcn enabled mode as:

```
<DOORS_Home>/bin/doorsd.exe -start -dcnEnable  
-dcnBrokerUri "tcp:// <brokerHost>:61616"  
-dcnChannelName "dcn".
```

For example:

```
C:/Program Files/Rational/DOORS 9.2/bin/doorsd.exe  
-debug -dcnEnable -dcnBrokerUri "tcp://  
127.0.0.1:61616" -dcnChannelName "dcn"
```
- h. Start DOORS Interop as:

```
<DOORS_Home>/doors.exe" -interop -data  
<port>@< IP address of the machine>
```

For example:

```
"C:/Program Files/Rational/DOORS 9.2/bin/doors.exe"  
-interop -data 36677@192.168.123.1
```
- i. Start the Webtop server by running the **WebtopServer.start.bat** script
located under **<Webtop_Home>**
- j. Try creating a Webtop project with a DOORS project in it.
- k. If after re-registration, in the DOORS repository drop down list (of
Webtop project creation dialog box), two or more entries are found by
same name.

For example:

 - 36677@john
 - 36677@john

Check if new files are created by name rds_registered.txt and
rds_valid_id.txt. Choose the last one in the drop down.

- l. Make sure that when the DOORS broker is started, it comes up and prints the message (circled in the screen shot below) which implies that only one DOORS broker is running.

```

C:\WINDOWS\system32\cmd.exe
ACTIVEMQ_HOME: C:\work\delete\dwaBroker\bin\..
ACTIVEMQ_BASE: C:\work\delete\dwaBroker\bin\..
Loading message broker from: xbean:activemq.xml
INFO PrimaryRouteBuilder - Configuring Festival Router 1.0
INFO PrimaryRouteBuilder - Finished configuring Festival Router
INFO AdminRouteBuilder - Configuring Festival Router 1.0
INFO AdminRouteBuilder - Finished configuring Festival Router
INFO TiredRouteBuilder - Configuring Festival Router 1.0
INFO TiredRouteBuilder - Finished configuring Festival Router
INFO BrokerService - Using Persistence Adapter: AMQPersistenceAdapter(C:\work\delete\dwaBroker\bin\..\data)
INFO BrokerService - ActiveMQ 5.2-SNAPSHOT JMS Message Broker (localhost) is starting
INFO BrokerService - For help or more information please see: http://activemq.apache.org/
INFO AMQPersistenceAdapter - AMQStore starting using directory: C:\work\delete\dwaBroker\bin\..\data
INFO KahaStore - Kaha Store using data directory C:\work\delete\dwaBroker\bin\..\data\kr-store\state
INFO AMQPersistenceAdapter - Active data files: []
INFO KahaStore - Kaha Store using data directory C:\work\delete\dwaBroker\bin\..\data\kr-store\data
INFO TransportServerThreadSupport - Listening for connections at: tcp://John:61616
INFO TransportConnector - Connector openwire Started
INFO BrokerService - ActiveMQ JMS Message Broker (localhost, ID:Rajuel-1928-1233819366275-1:0) started
INFO TransportConnector - Connector um://localhost Started
  
```

- m. Make sure that the entries (circled in the sample screen shot) in `festival.xml` are correct, the RDS username and password should be the Directory Admin credentials. Try to log on to RDS with the credentials which are given in this file.

```

25 <!-- Configurable system properties -->
26 <f:properties>
27 <f:property name="use.tds.for.application.registration" value="true"/>
28 <f:property name="tds.server.host" value="server64"/>
29 <f:property name="tds.credentials.uid" value="tdsadmin"/>
30 <f:property name="tds.credentials.password" value="pass1234 "/>
31 <f:property name="dwa.server.host" value="localhost"/>
32 <f:property name="dwa.server.port" value="8080"/>
33 </f:properties>
34
  
```


Appendix: Notices

© Copyright 2000, 2009

U.S. Government Users Restricted Rights - Use, duplication, or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

This information was developed for products and services offered in the U.S.A. IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send written license inquiries to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send written inquiries to:

IBM World Trade Asia Corporation
Licensing
2-31 Roppongi 3-chome, Minato-ku
Tokyo 106-0032, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions. Therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

Intellectual Property Dept. for Rational Software
IBM Corporation
1 Rogers Street
Cambridge, Massachusetts 02142
U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments

may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

Trademarks

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at www.ibm.com/legal/copytrade.html.

Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Java and all Java-based trademarks and logos are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

Other company, product or service names may be trademarks or service marks of others.

Index

A

about Webtop 1
accessing Webtop server 12

C

changes for change 14
changes for DOORS 14
configuring Tau on specific port 9

D

DCN enabled mode 10
disk space requirement 6
DOORS client installation 7
DOORS database 2
DOORS server installation 6

I

installing components 6
installing Webtop 10

J

java runtime environment 6

M

modifying components 13

R

Rational Directory Server 2
RDS 5.0 6
RDS location 13
registering tau applications 8

S

SSL 14
starting webtop server 12
supported browsers 5
supported server platforms 5

synergy/change installation 7
system requirements 5

T

Tau changes 14
Tau installation 7

W

Webtop changes 13
Webtop components 1
Webtop server requirement 6

