



**EH&S WWI Generation Server
and
Expert Server Installation**

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1 Summary

This document outlines the detailed steps EH&S WWI and Expert server installation on MS windows platform.

2 Pre-requisites

Processor:

- ☐ Standard 32 bit, compatible with Microsoft Windows
- ☐ or 64bit, Microsoft Windows x64 Edition compatible with the WoW64 subsystem

Main memory:

- ☐ min. 256 MB (recommended: 512MB or more)
- ☐ For Microsoft Windows Vista, Server 2008 and later, we recommend 2 GB.

Free hard disk space for the software:

- ☐ Minimum of 50MB (more during the installation)
- ☐ Free hard disk space for WWI generation:
- ☐ 1 GB free memory for temporary files

Operating system:

- ☐ Microsoft Windows 2000 Professional/Server
- ☐ Microsoft Windows XP Professional
- ☐ Microsoft Windows 2003 Server (see Note 703684)
- ☐ Microsoft Windows Vista (see Note 1012557)
- ☐ Microsoft Windows Server 2008 (see Note 1145085)

Communication:

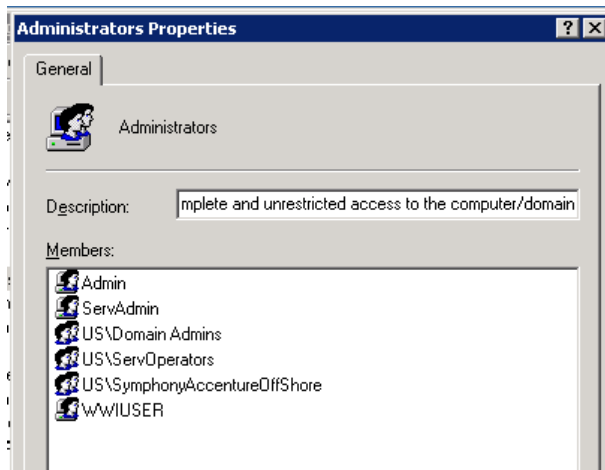
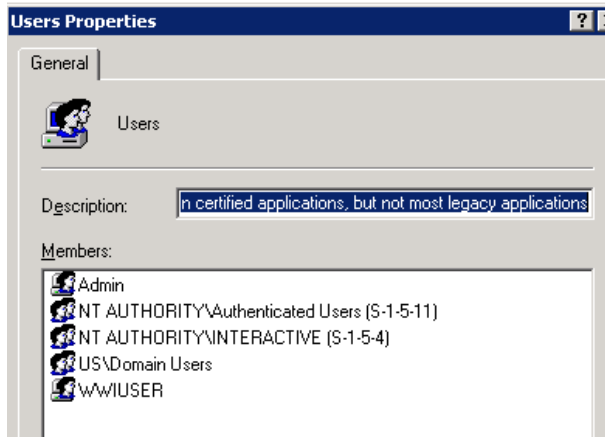
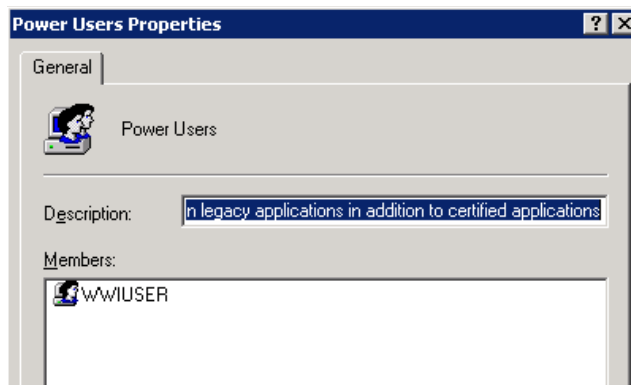
WWI and Expert communicate with the SAP system via Remote Function Call (RFC). For RFC, the TCP/IP ports 3300 to 3399 are used. You must enable these accordingly.

3 WWI Installation

3.1 WWI User Creation

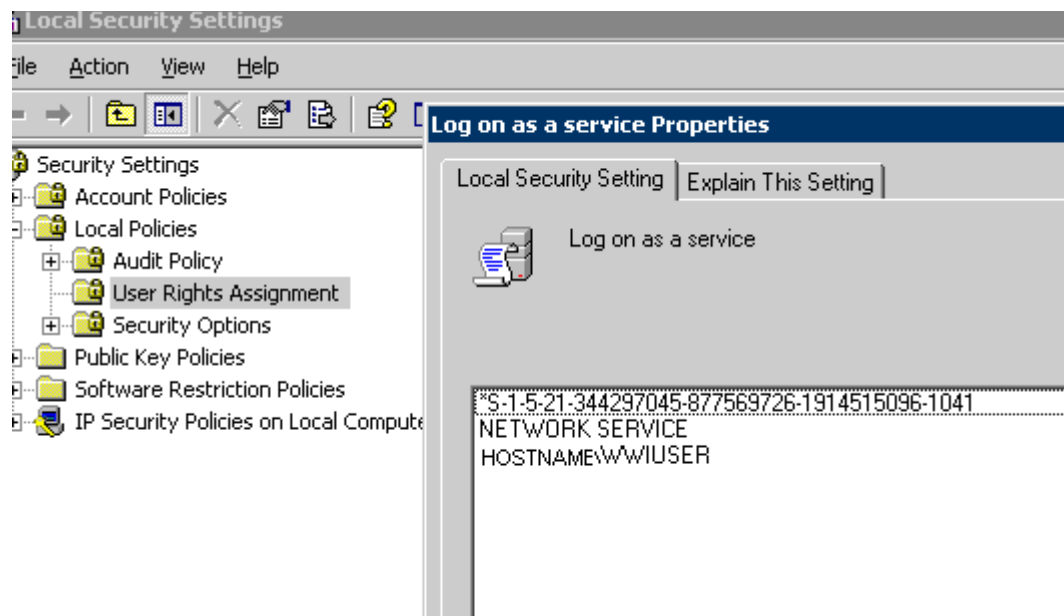
3.1.1 Create WWI user account

Create a new local user 'WWIUSER' who is a member of the 'Power users' or 'Users' group with a password that does not expire.

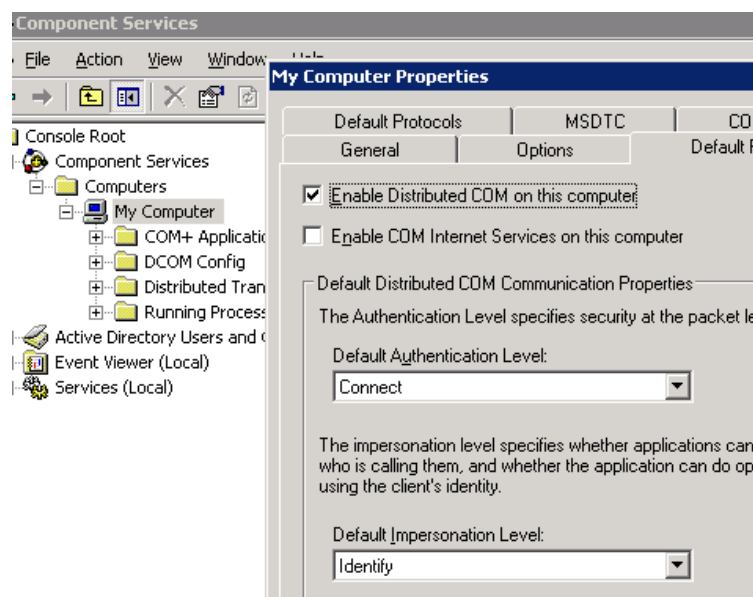
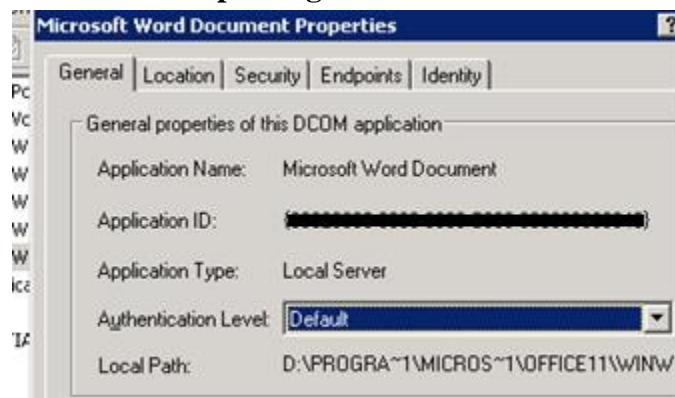


3.1.2 Privilege 'Logon as a service'

The user must have the 'Log on as a service' authorization

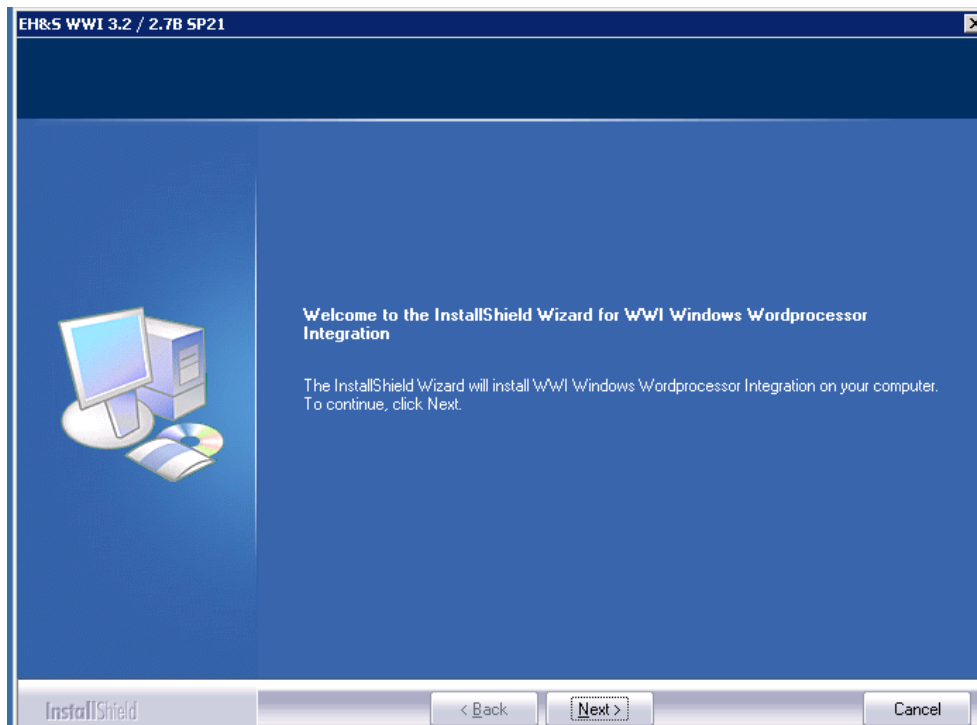
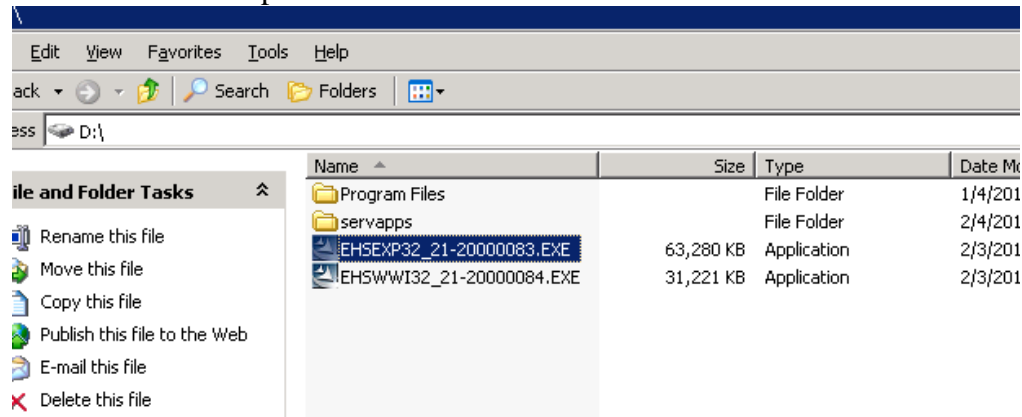


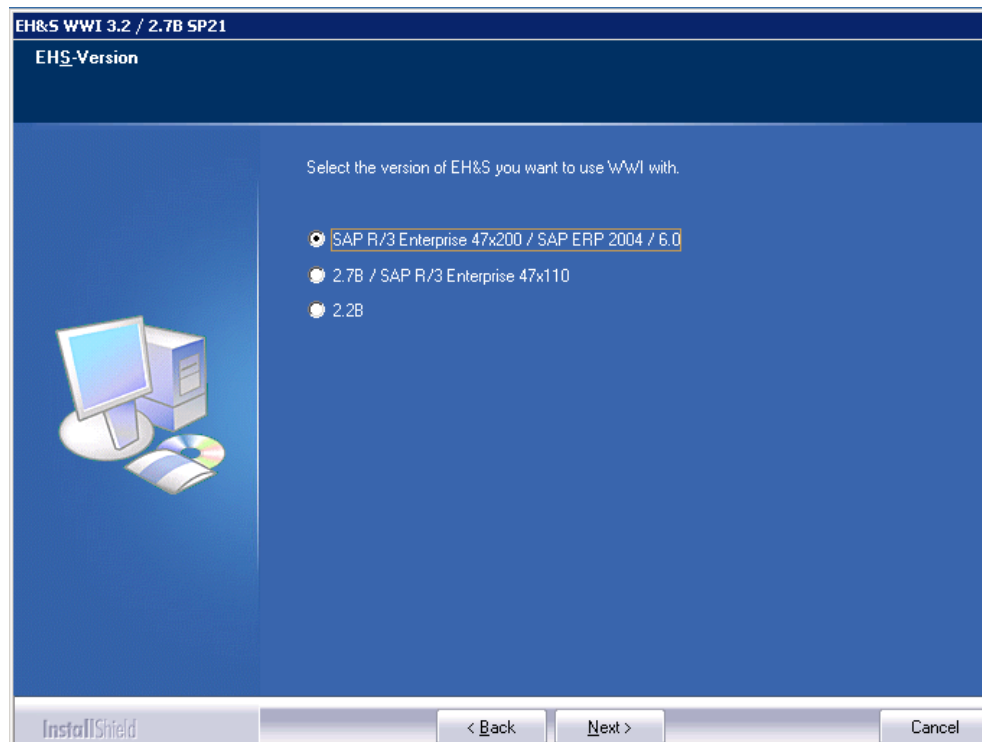
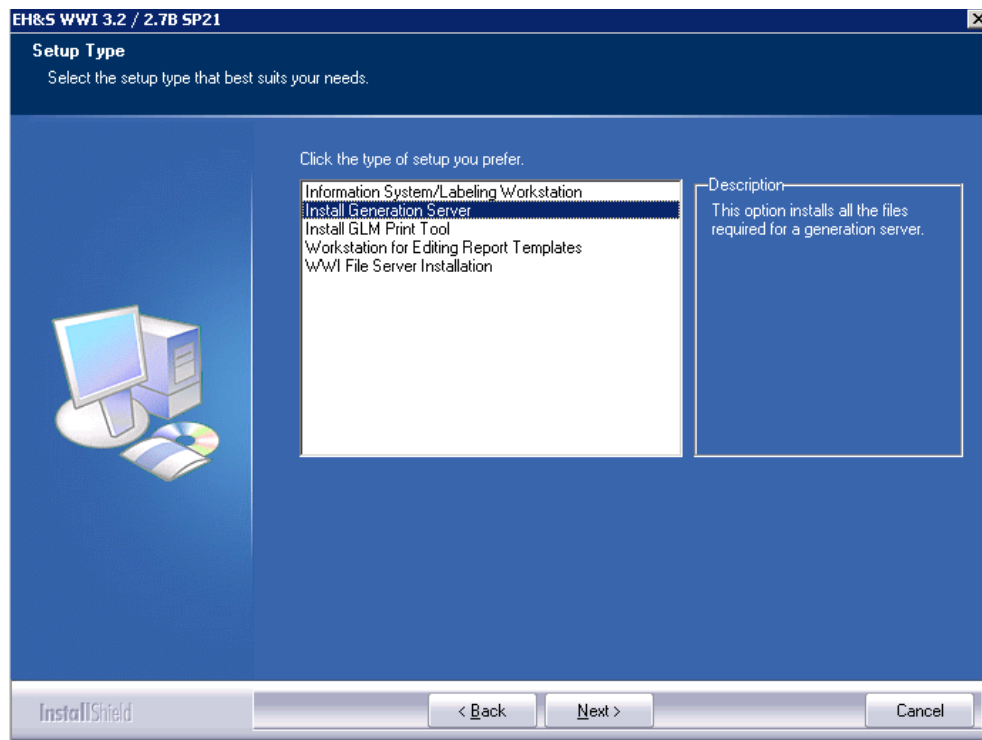
3.1.3 DCOM privileges

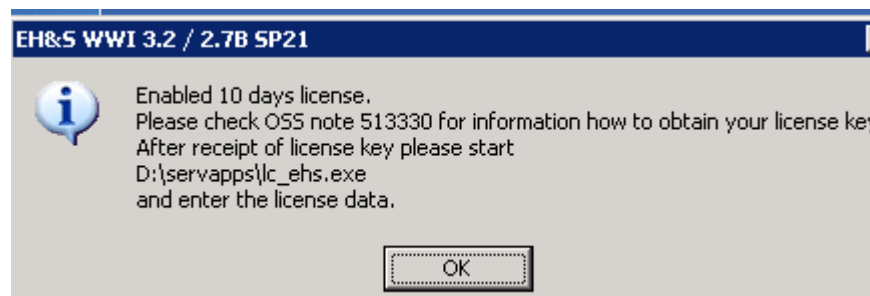
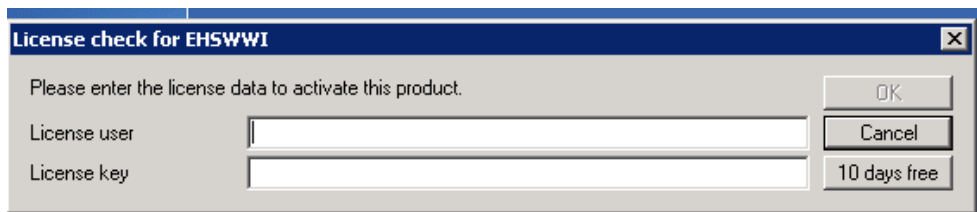
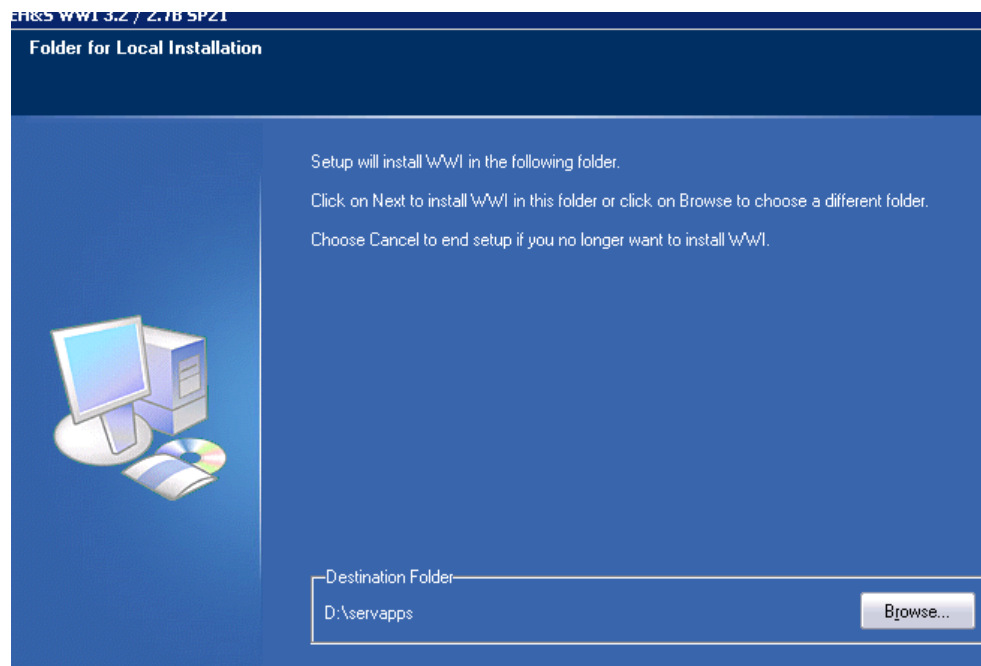
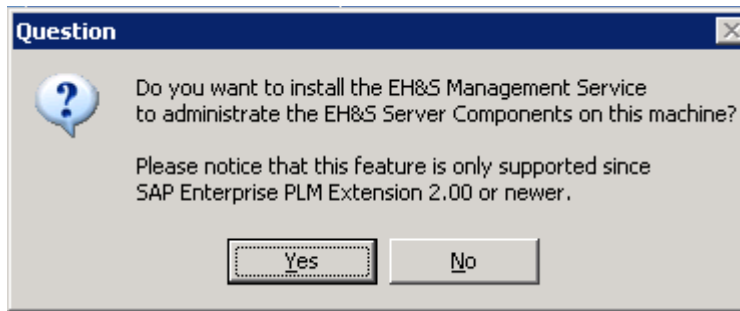


3.2 Installing WWI

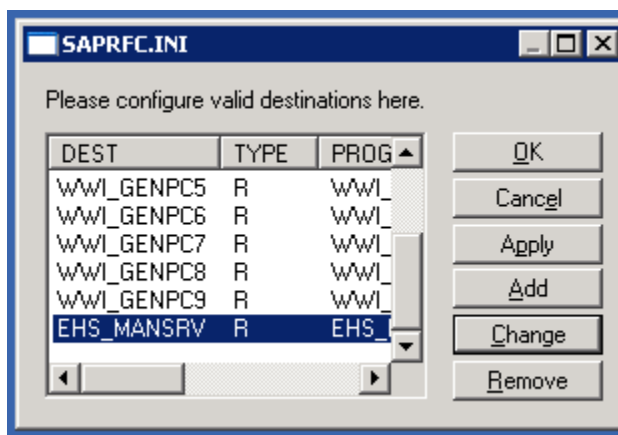
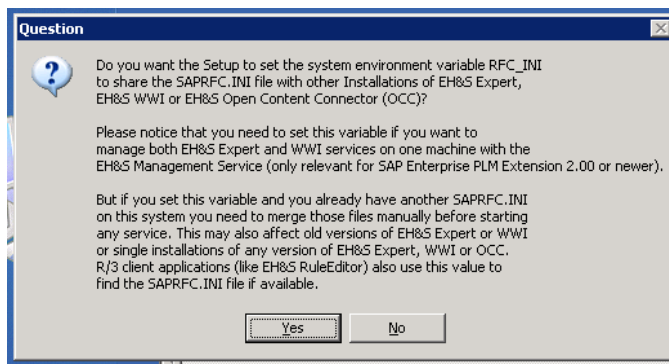
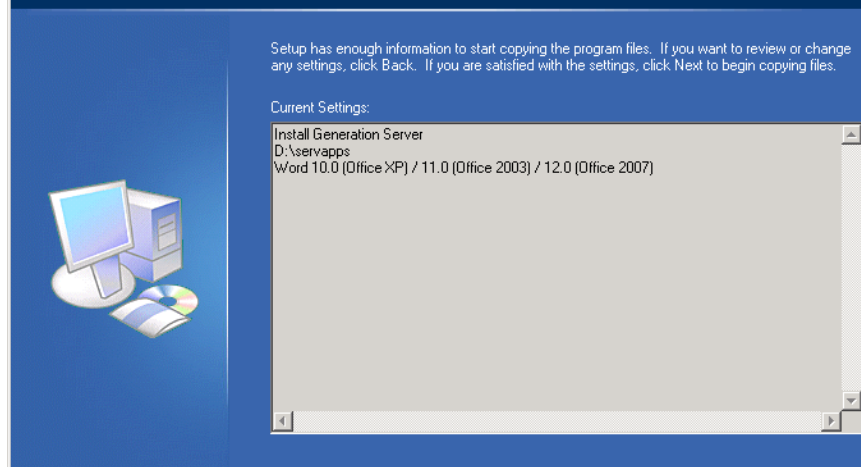
Execute WWI set up exe:







Have you made the correct settings?

**Add a new RFC connection:**

DEST = EHS_MANSRV_<HOSTNAME>

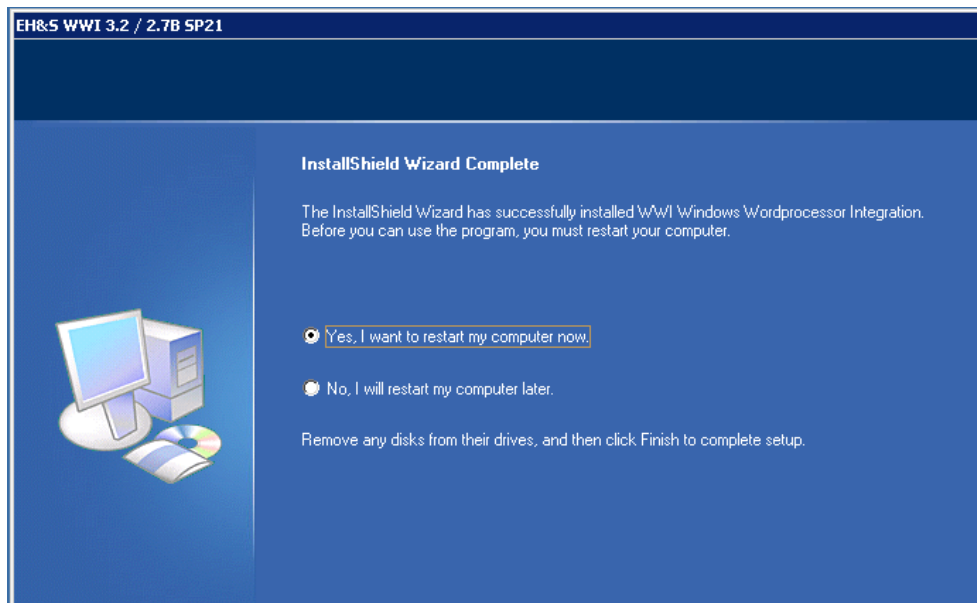
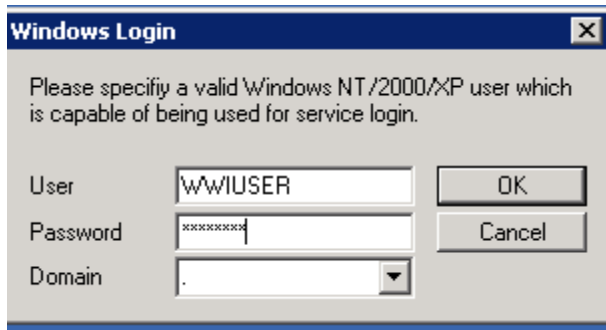
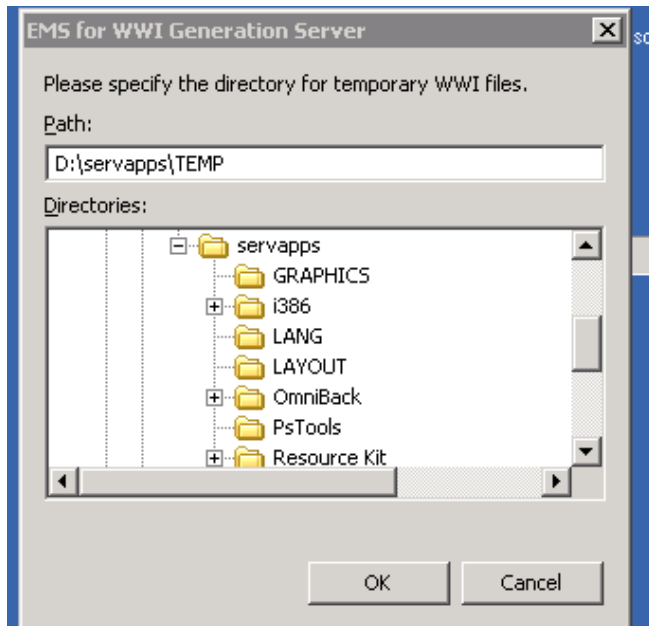
TYPE = Server

PROGID = EHS_MANSRV_<HOSTNAME>

GWHOST = <HOSTNAME>.<company>.com

GWSERV = sapgw03

MANAGED = 1



Distributed File System	Integrates ...	Manual	Local
Distributed Link Tracking Client	Enables cli...	Started	Automatic
Distributed Link Tracking Server	Enables th...	Disabled	Local
Distributed Transaction Coordinator	Coordinate...	Started	Automatic
DNS Client	Resolves a...	Started	Automatic
EHS Administration Management Server		Started	Automatic
Error Reporting Service	Collects, st...	Started	Automatic
Event Log	Enables ev...	Started	Automatic
File Replication	Allows files...	Manual	Local
Help and Support	Enables He...	Started	Automatic

3.3 Set Up RFC Destination in SAP System

3.3.1 Set up RFC Destination for EH&S Management Server

RFC Destination EHS_MANSRV_ HOSTNAME

Connection Test

Unicode Test

RFC Destination

EHS_MANSRV_HOSTNAME

Connection Type

T

TCP/IP Connection

Description

Description

Description 1

EHS Management Server for WWI and EHS Expert on HOSTNAME

Description 2

Description 3

Administration

Technical Settings

Logon & Security

MDMP & Unicode

Sp

Activation Type

☐ Start on Application Server
☒ Registered Server Program
☐ Start on Explicit Host
☐ Start on Front-End Work Station

Registered Server Program

Program ID

EHS_MANSRV_HOSTNAME

Connection Test EHS_MANSRV_ HOSTNAME

Connection Type TCP/IP Connection


On HP multiprocessor machines, the specified time values may be incorrect.

.....

Action	Result
Logon	508 msec
Transfer of 0 KB	1013 msec
Transfer of 10 KB	1016 msec
Transfer of 20 KB	1017 msec
Transfer of 30 KB	1015 msec

3.3.2 Set Up of RFC Destination for WWI

RFC Destination WWI_GENPC1

Connection Test Unicode Test 

RFC Destination

Connection Type TCP/IP Connection Description

Description

Description 1

Description 2

Description 3

Administration Technical Settings Logon & Security MDMP & Unicode Special Option

Activation Type

☐ Start on Application Server ☒ Registered Server Program

☐ Start on Explicit Host

☐ Start on Front-End Work Station

Registered Server Program

Program ID

Start Type of External Program

Edit the saprfc.ini file to include :

```
File Edit Format View Help
Cols=200
Lines=400
Delay=20

/* this entry points to TCP/IP-Destination WWI_GENPC1 */
DEST=WWI_GENPC1
PROGID=WWI_GENPC1
TYPE=R
GWHOST=1 <HOSTNAME>.COMPANH.COM
GWSERV=sapgwus


/* this entry points to TCP/IP-Destination WWI_GENPC2 */
; [PC2]
DEST=WWI_GENPC2
PROGID=WWI_GENPC2
TYPE=R
GWHOST=
```

Test the RFC

RFC - Connection Test

Connection Test WWI_GENPC1

Connection Type TCP/IP Connection

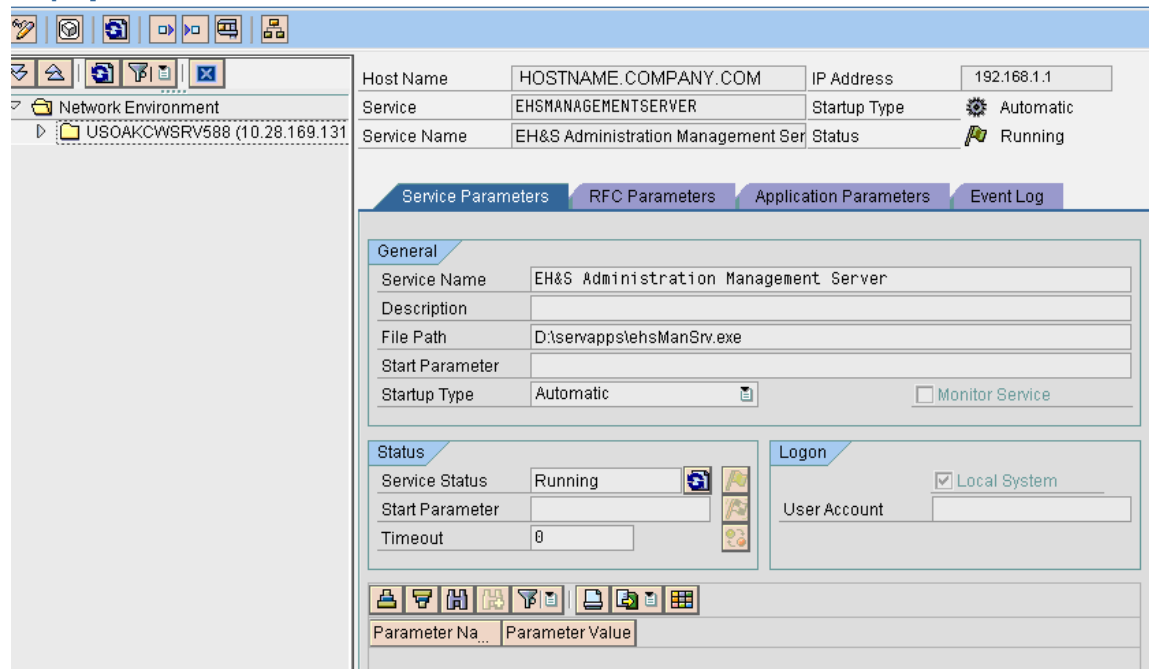
 On HP multiprocessor machines, the specified time values may be incorrect

Action	Result
Logon	177 msec
Transfer of 0 KB	562 msec
Transfer of 10 KB	125 msec
Transfer of 20 KB	124 msec
Transfer of 30 KB	124 msec

3.4 Installing WWI Generation Servers As Services

In SAP system, execute tcode CGSADM

Display Server Services: EHSMANAGEMENTSERVER



The screenshot displays the SAP CGSADM 'Display Server Services' window for the service EHSMANAGEMENTSERVER. The window is divided into several sections:

- Host Information:** Host Name (HOSTNAME.COMPANY.COM), IP Address (192.168.1.1), Service (EHSMANAGEMENTSERVER), and Startup Type (Automatic).
- Service Information:** Service Name (EH&S Administration Management Ser) and Status (Running).
- Service Parameters:** General tab showing Service Name (EH&S Administration Management Server), Description, File Path (D:\servapps\ehsManSrv.exe), Start Parameter, and Startup Type (Automatic). There is a checkbox for 'Monitor Service'.
- Status:** Service Status (Running), Start Parameter, and Timeout (0).
- Logon:** Local System checkbox and User Account field.
- Parameter List:** A table with columns 'Parameter Na...' and 'Parameter Value'.

Click on 'Install WWI Generation Server'

Display Server Services: EHS_EXPERT_U

Install WWI Generation Server (Ctrl+F5)	
Host Name	
Service	
Service Name	
Network Environment	
<HOSTNAME>(192.168.1.1)	

Service Administration: Install WWI Generation Server	
RFC Parameters	
Destination	WWI_GENPC1
Program ID	WWI_GENPC1
Gateway host	
Gateway Service	
<input type="checkbox"/> Trace	
WWI Parameters	
<input type="checkbox"/> Synchronous Server	
WWI server	SV002
WWI root directory	D:\SERVAPPS\TEMP\WWI_GENPC1_SBI
<input checked="" type="checkbox"/> AutoAssign	
Dest. type	GEN/PRN
ProcType	
Applicatn Component	
Printer type	DEFAULT
Windows printer	Standard
General	
Service	WWI_GENPC1_SBE_02
Service Name	WWI Server (WWI_GENPC1/SBE/100/02)
Description	WWI Server (WWI_GENPC1/SBE/100/02)
<input checked="" type="checkbox"/> <input type="checkbox"/>	

Display Server Services: EHSMANAGEMENTSERVER

Host Name		hostname.company.com		IP Address		18.28.169.131	
Service		EHSMANAGEMENTSERVER		Startup Type		Automatic	
Service Name		EH&S Administration Management Ser		Status		Running	

Service Parameters				RFC Parameters				Application Parameters				Event Log			
--------------------	--	--	--	----------------	--	--	--	------------------------	--	--	--	-----------	--	--	--

Remote Function Call Parameters							
Destination		EHS_MANSRV_hostname.		Program ID		EHS_MANSRV_hostname.	
Gateway host		hostname.company.com		Gateway Service		sapgw03	
<input type="checkbox"/> Trace							

Directory Path: D:\servapp\


```

/*=====*/
/* Sample saprfc.ini for the connections of wwrfcsv.exe */
/* to R/3. */
/*
/* Remark: This is only an example!
/* You have to customize the entries for your system.
/*=====*/
/* Make sure to enter an appropriate GWHOST and GWSERV for each
/* destination. The GWHOST is the Application-Server which
/* is set in the corresponding TCP/IP-Destination entry
/* (transaction SM59) in R/3.
/* GWSERV is the service which is responsible for the connection
  
```

Saprfc.ini | Li 1, Co 1 | Ln 1 - Ln 12 of 132 lines

The below entry is added in saprfc.ini file

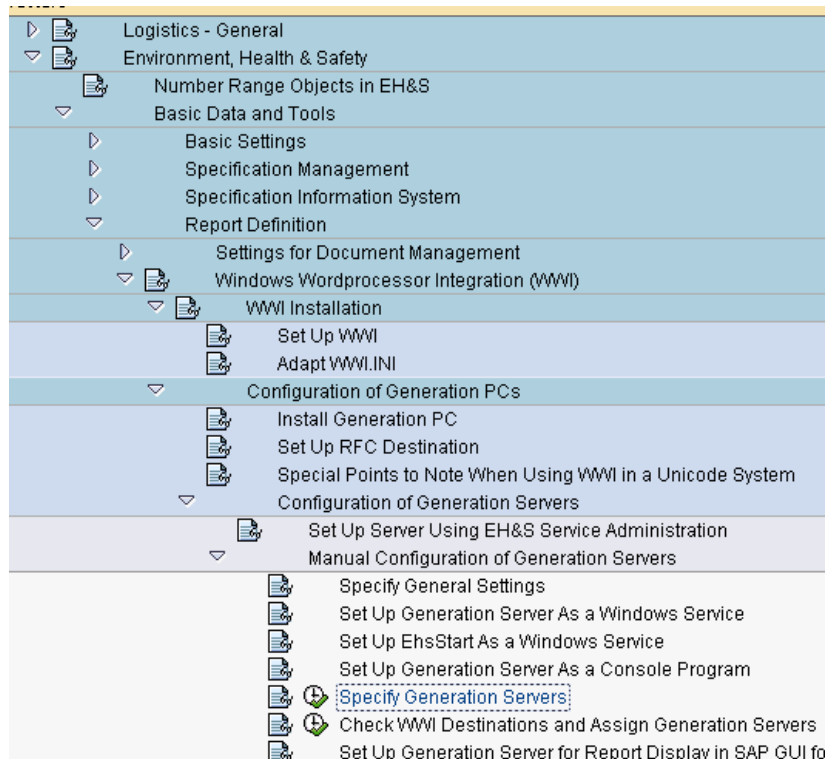
```

/* this entry points to TCP/IP-Destination EHS_MANSRV */
DEST=EHS_MANSRV_HOSTAME.
PROGID=EHS_MANSRV_HOSTAME.
TYPE=R
GWHOST= HOSTAME.COMPANY.COM
GWSERV=sapgw03
MANAGED=1
DEST=WWI_GENPC1_SBE_01
TYPE=R
PROGID=WWI_GENPC1
GWHOST= HOSTAME.COMPANY.COM
GWSERV=sapgw03
RFC_TRACE=0
  
```

3.5 Customizing of WWI Server in SAP System

3.5.1 Specify Generation Servers

SPRO→

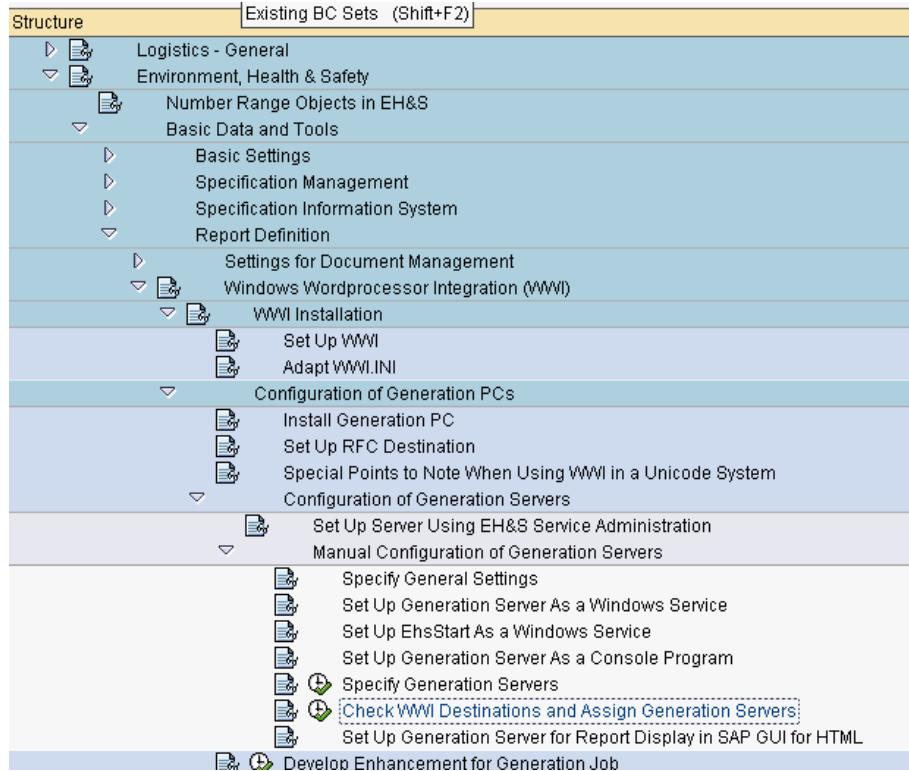


Change View "EHS: Definition of PCs Used for WWI Document Generation":

WWI	Description	RFC Destination	WWI acti...
SV001	Gen-Server1		<input type="checkbox"/>
SV003	Gen-Server3	WWI_GENSERVER_PLN_003_1	<input type="checkbox"/>
SV005	EHS_MANSRV_ <hostname>	EHS_MANSRV_HOSTNAME	<input checked="" type="checkbox"/>
SV006	WWI_GENPC1_SBE_01	WWI_GENPC1	<input checked="" type="checkbox"/>

Activate the WWI server

3.5.2 Check WWI Destinations and Assign Generation Servers



Change View "WWI Destinations": Overview

New Entries							
Grab							
Dialog Structure							
WWI Destinations							
Assignment of WWI							
WWI dest.	Description	Dest. type	Printer ty.	ProcT	Component ID	AutoAs	
DEST1	Standard destination	GEN/PRN	DEFAULT			<input checked="" type="checkbox"/>	

Change View "Assignment of WWI Server to the WWI Destin

New Entries															
Dialog Structure <div style="margin-left: 10px;"> WWI Destinations <div style="margin-left: 20px;"> Assignment of WWI S </div> </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> WWI destination <div style="border: 1px solid #ccc; padding: 2px 10px;">DEST1</div> Standard destination </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr style="background-color: #fff9c4;"> <th style="width: 10%;">WWI</th> <th style="width: 90%;">Windows printer</th> </tr> </thead> <tbody> <tr style="background-color: #fff9c4;"> <td>SV001</td> <td>Standard</td> </tr> <tr> <td>SV002</td> <td>Standard</td> </tr> <tr> <td>SV004</td> <td>Standard</td> </tr> <tr> <td>SV005</td> <td>Standard</td> </tr> <tr> <td>SV006</td> <td>Standard</td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	WWI	Windows printer	SV001	Standard	SV002	Standard	SV004	Standard	SV005	Standard	SV006	Standard		
WWI	Windows printer														
SV001	Standard														
SV002	Standard														
SV004	Standard														
SV005	Standard														
SV006	Standard														

3.5.3 Job for Document Generation on WWI Server

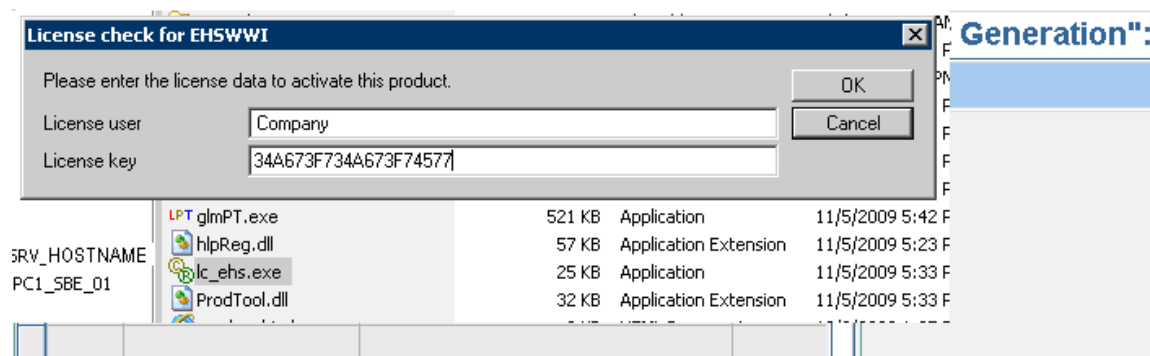
- Call the SAP system in the client for which the dispatcher is to be started manually.
- In the *SAP Easy Access* screen, choose *Tools* ☐ *ABAP Workbench* ☐ *Development* ☐ *ABAP Editor*. The *ABAP Editor: Initial Screen* appears.
- Enter **RC1WWIDS** in the *Program* field.
- Choose *Execute*.

The RC1WWIDS report creates the WWI dispatch process for the corresponding client. To

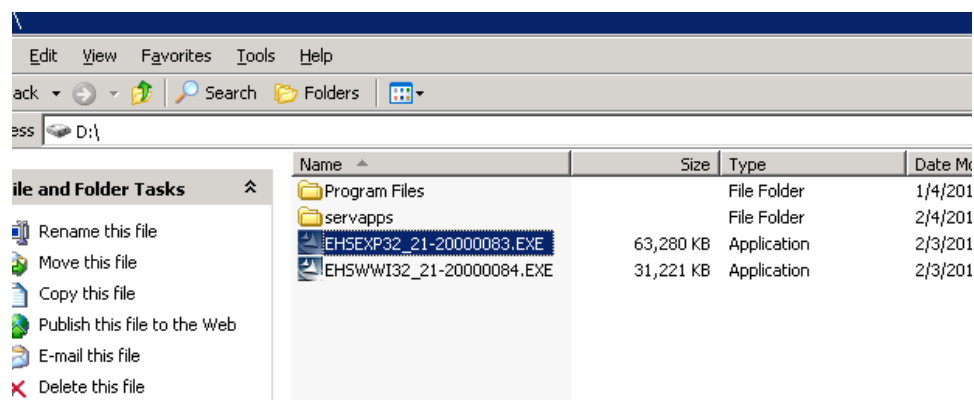
3.5.4 Apply License

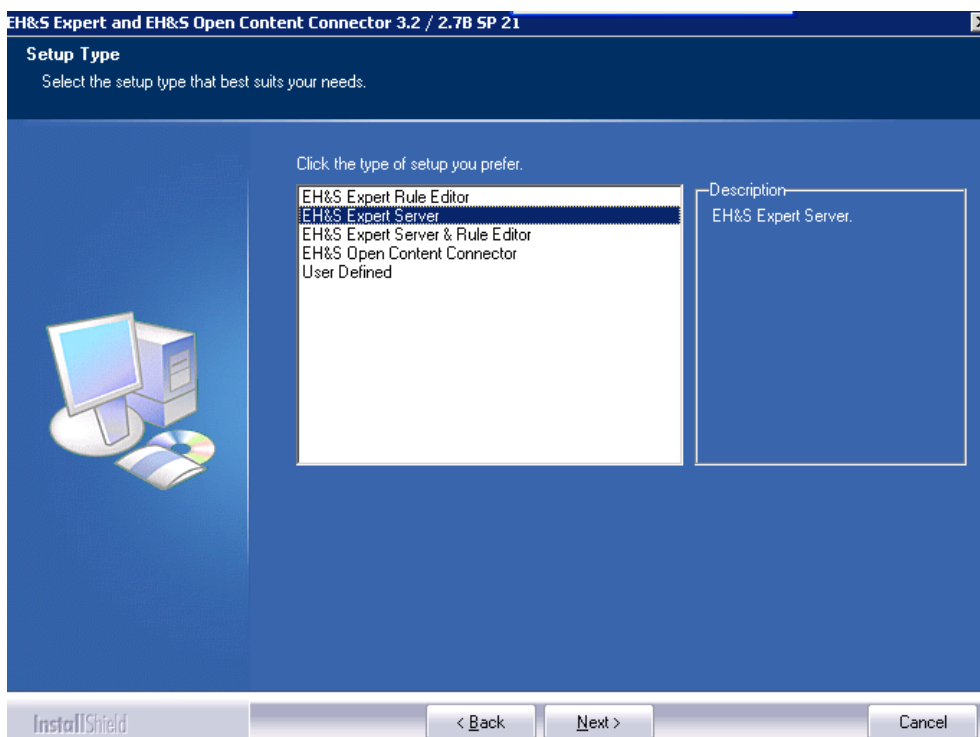
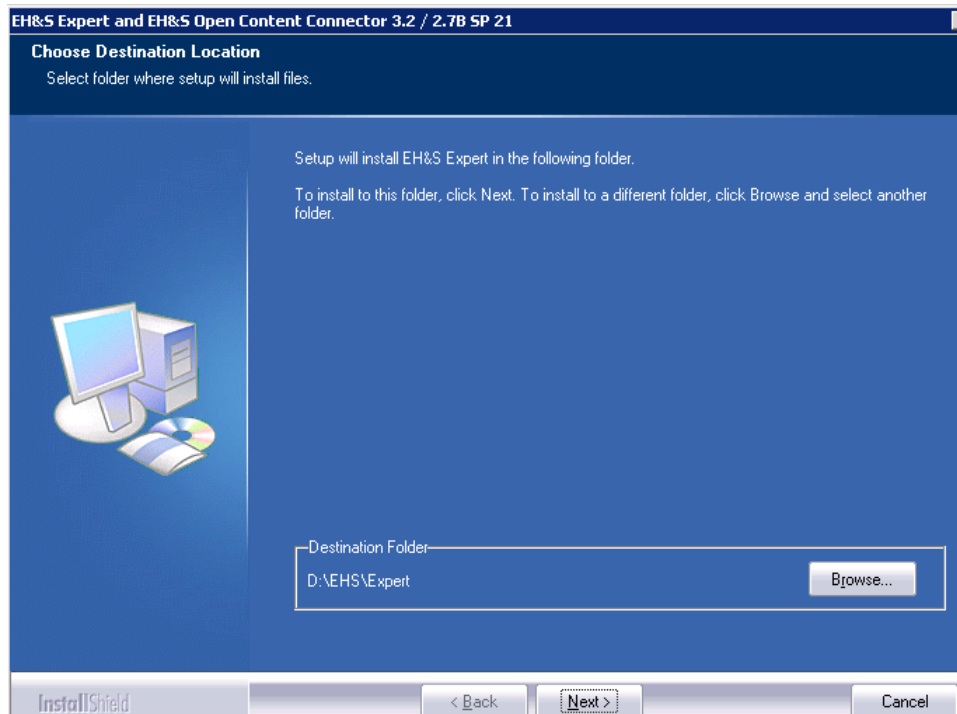
A license is required to operate a WWI generation server. For information about obtaining a license key, see SAP Note 513330

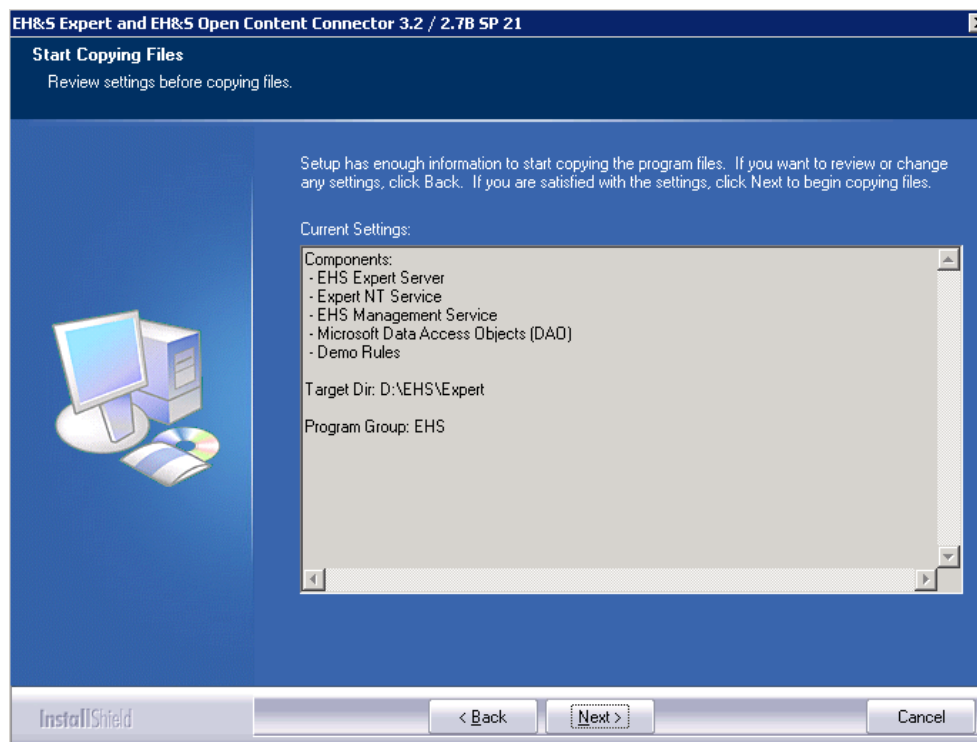
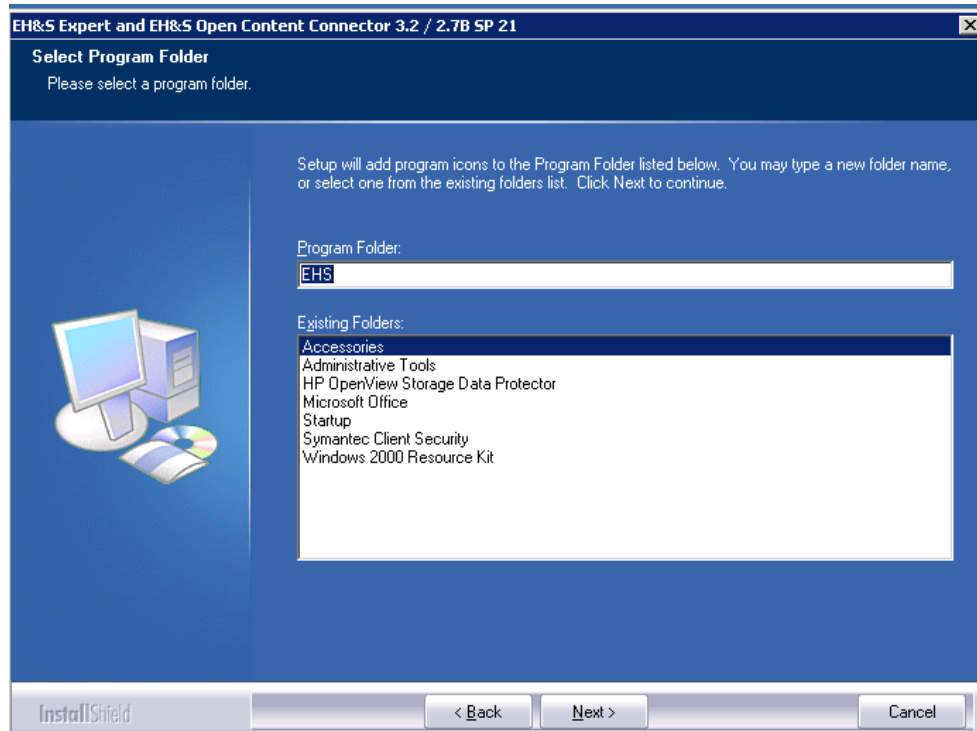
Start program LC_EHS.EXE on the WWI installation directory and enter the company name and license key.

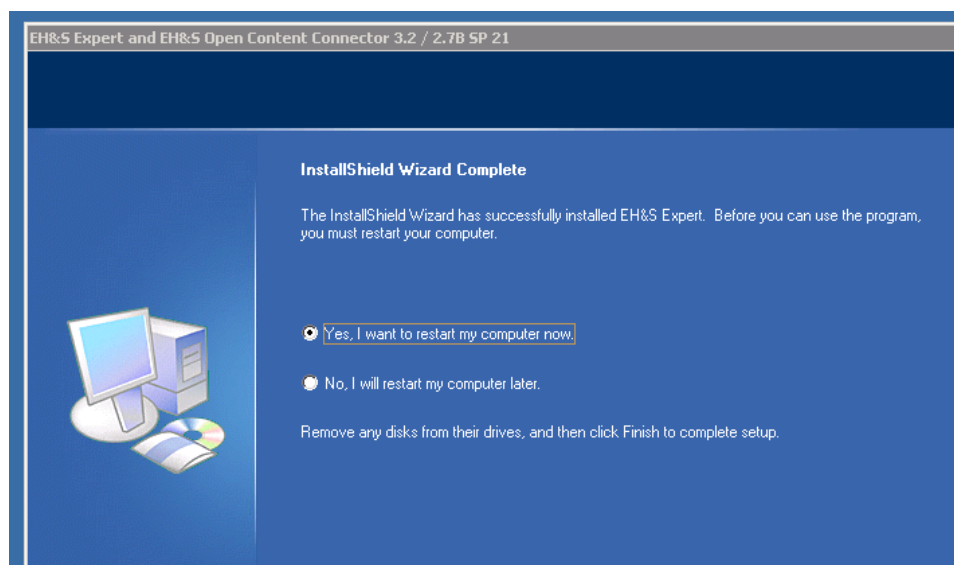
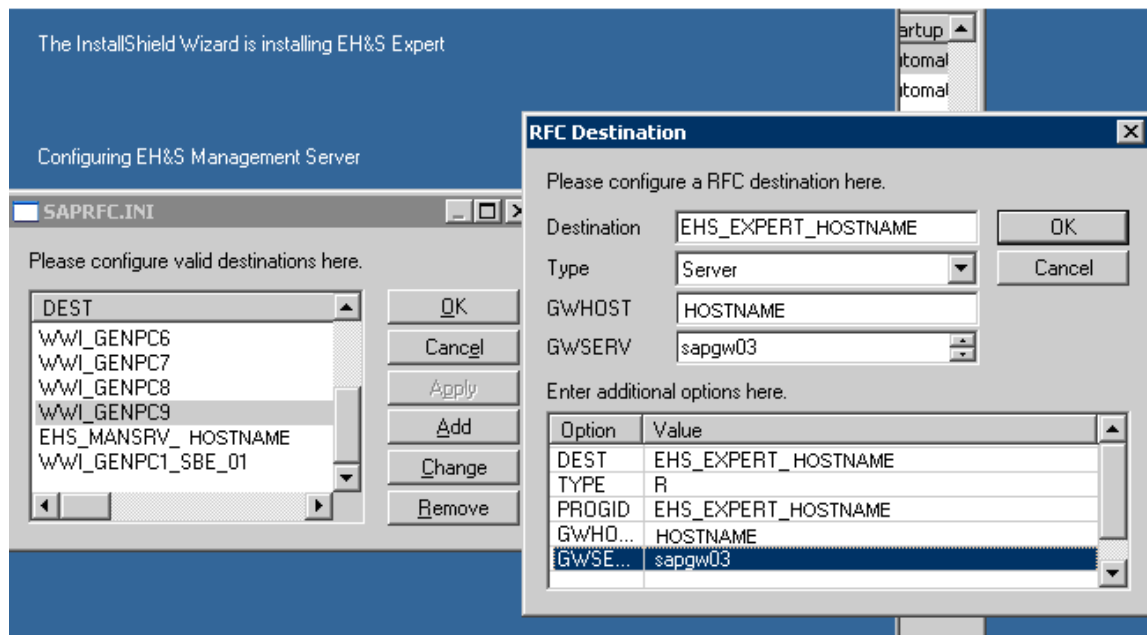
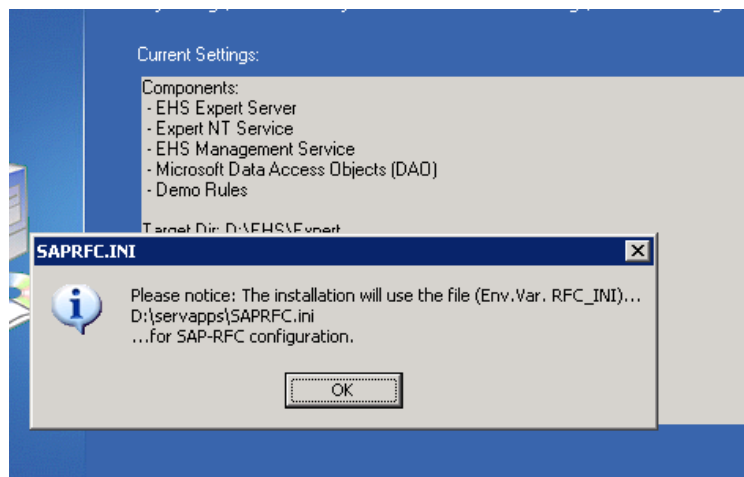


4 EH&S Expert Installation










4.1 Set up RFC Destination to EHS Expert in SAP

RFC Destination EHS_EXPERT_USOAKCWSRV588

Connection Test Unicode Test 

RFC Destination: EHS_EXPERT_HOSTNAME

Connection Type: T TCP/IP Connection Description

Description

Description 1	Connection to EHS Expert on HOSTNAME
Description 2	
Description 3	

Administration Technical Settings Logon & Security MDMP & Unicode S

Activation Type

☐ Start on Application Server ☒ Registered Server Program

☐ Start on Explicit Host

☐ Start on Front-End Work Station


Registered Server Program

Program ID: EHS_EXPERT_HOSTNAME

RFC - Connection Test

Connection Test EHS_EXPERT_HOSTNAME

Connection Type TCP/IP Connection

 On HP multiprocessor machines, the specified time values may be incorrect.

Action	Result
Logon	92 msec
Transfer of 0 KB	124 msec
Transfer of 10 KB	125 msec
Transfer of 20 KB	123 msec
Transfer of 30 KB	125 msec

4.2 Installing EH&S Expert Servers As Services

CGSADM → Click on the server → Click on 'Install EH&S Expert'

Display Server Services: EHS_EXPERT

The screenshot shows the SAP Service Administration interface. The top toolbar contains icons for editing, saving, and other functions. Below the toolbar, the 'Host Name' field is set to 'hostname'. The 'Service' field is set to 'EHS_EXPERT'. The 'Service Name' field is set to 'EHS_EXPERT_HOSTNAME'. The 'Network Environment' is set to 'HOSTNAME(192.168.1.1)'. The 'Service Name' field is also set to 'EHS_EXPERT_HOSTNAME'.

Host Name	Service	Service Name
hostname	EHS_EXPERT	EHS_EXPERT_HOSTNAME

Display Server Services: EHSMANAGEMENTSERVER

The screenshot shows the SAP Service Administration interface for the EHSMANAGEMENTSERVER service. The top toolbar contains icons for editing, saving, and other functions. Below the toolbar, the 'Host Name' field is set to 'hostname.company.com'. The 'Service' field is set to 'EHSMANAGEMENTSERVER'. The 'Service Name' field is set to 'EHSMANAGEMENTSERVER'. The 'Network Environment' is set to 'HOSTNAME(192.168.1.1)'. The 'Service Name' field is also set to 'EHSMANAGEMENTSERVER'.

Service Administration: Install EH S Expert Server

RFC Parameters

Destination	Program ID	Gateway host	Gateway Service
EHS_EXPERT_hostname	EHS_EXPERT_HOSTNAME	HOSTNAME	

☐ Trace

EH&S Expert Parameters

☐ Easy Expert

General

Service	Service Name	Description
EHS_EXPERT_HOSTNAME _SBE_01	Expert Server (EHS_EXPERT_HOSTNAME)	Expert Server (EHS_EXPERT_HOSTNAME)

Parameter Na... Parameter Value

The screenshot displays a Windows XP desktop environment. On the left, the 'Network Environment' window is open, showing a tree view of network resources. The 'EHS_EXPERT_EHS_HOSTNAME' service is highlighted. On the right, the 'Service Parameters' window is open, showing the configuration for the 'Expert Server (EHS_EXPERT_eds_hostname/SBE/01)' service. The service is currently running, and its startup type is set to 'Manual'. The 'Monitor Service' checkbox is checked. The 'Logon' section shows the service is configured to run as the 'Local System'. The 'Parameter Value' table at the bottom lists various configuration parameters.

Parameter Name	Parameter Value
Destination	-DEHS_EXPERT_
IdleTime	1000
InitialServerCount	1
LogDirOptions	1 /F /P /E /L:clean