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Outstation Support Server Handbook

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1. INTRODUCTION

1.1 PURPOSE

This document describes the Outstation Support Server (OSS) installation and use.

The OSS provides software package management and configuration backup facilities for Siemens networked outstations.

1.2 SCOPE

This document covers the OSS installation and operation. The OSS software covered in this handbook is identified as part number 667/TZ/32450/000 issue 9.0.

1.3 REFERENCE DOCUMENTS

GVP Reference Manual	667/HB/31760/000
Gemini ² UTM C OTU Handbook	667/HB/31601/000

1.4 ABBREVIATIONS AND DEFINITIONS

ASCII	American Standard Code for Information Interchange
Bit	Binary Digit
BOOTP	Bootstrap Protocol
CCITT	International Co-ordinating Committee for Telephony and Telegraphy
CHAP	Challenge Handshake Authentication Protocol
CPU	Central Processing Unit
DCE	Data Communication Equipment
DDNS	Dynamic DNS
DNS	Domain Name System
DSL	Digital Subscriber Line
DST	Daylight Saving Time
EMC	Electromagnetic Compatibility
eCos	Embedded Configurable Operating System
FLASH	Non-volatile memory that may be programmed under software control
GMT	Greenwich Mean Time
GPRS	General Packet Radio Service
GSM	Global System for Mobile Communication
GV	Generic Versatile
GVP	Generic Versatile Platform
IO	Input and Output
ICG	Inter-Cycle Gap - A Siespace Protocol Parameter
ICMP	Internet Control Message Protocol
IMG	Inter-Message Gap - A Siespace Protocol Parameter
IP	Internet Protocol
JFFS2	Journaling Flash File System Version 2

LAN	Local Area Network
LED	Light Emitting Diode
LMU	Lamp Monitoring Unit
MD5	Message Digest 5
MIB	Management Information Base
MIB-II	Management Information Base II (Two)
NTP	Network Time Protocol
MOVA7	Microprocessor Optimised Vehicle Activation
OEM	Other Electrical Manufacturers
OSS	Outstation Support Server
OTU	Outstation Transmission Unit
PAP	Password Authentication Protocol
PC	Personal Computer
PCB	Printed Circuit Board
PIN	Personal Identification Number
PPP	Point-to-Point Protocol
PSTN	Public Switched Telephone Network
PSU	Power Supply Unit
RAM	Random Access Memory
ROM	Read Only Memory
ROMFS	ROM File System
RS232	EIA Data Communications Interface - Level based serial communications standard
RS485	EIA Differential Data Communications Interface - Differential serial communications standard
SHA-1	Secure Hash Algorithm 1
Siespace	A Siemens car park guidance system
SNMP	Simple Network Management Protocol
SNMPv1	SNMP Version 1
SNMPv2	SNMP Version 2
SNMPv3	SNMP Version 3
SNTP	Simple Network Time Protocol
STC	Siemens Traffic Controls
Telnet	Telnet Protocol
TFTP	Trivial File Transfer Protocol
TMA	Traffic Management Act
TS	Siemens Traffic Solutions, Mobility Division (formerly Siemens Traffic Controls)
UDP	User Datagram Protocol
UTMC	Urban Traffic Management and Control
UVMS	Urban VMS
VMS	Variable Message Sign
VPN	Virtual Private Network
XML	Extensible Markup Language
ZXO	A Zero Crossover Interface

2. PRODUCT DESCRIPTION

2.1 INTRODUCTION

The Outstation Support Server software runs on a PC, usually located at the local authority's instation. The OSS provides software package management and configuration backup facilities for Siemens networked outstations. The IP network employed will be dependent on the system application.

The outstations monitor and control on-street equipment. Several hardware and software versions are available to interface to equipment such as Variable Message Signs, Car Parks and Traffic Controllers

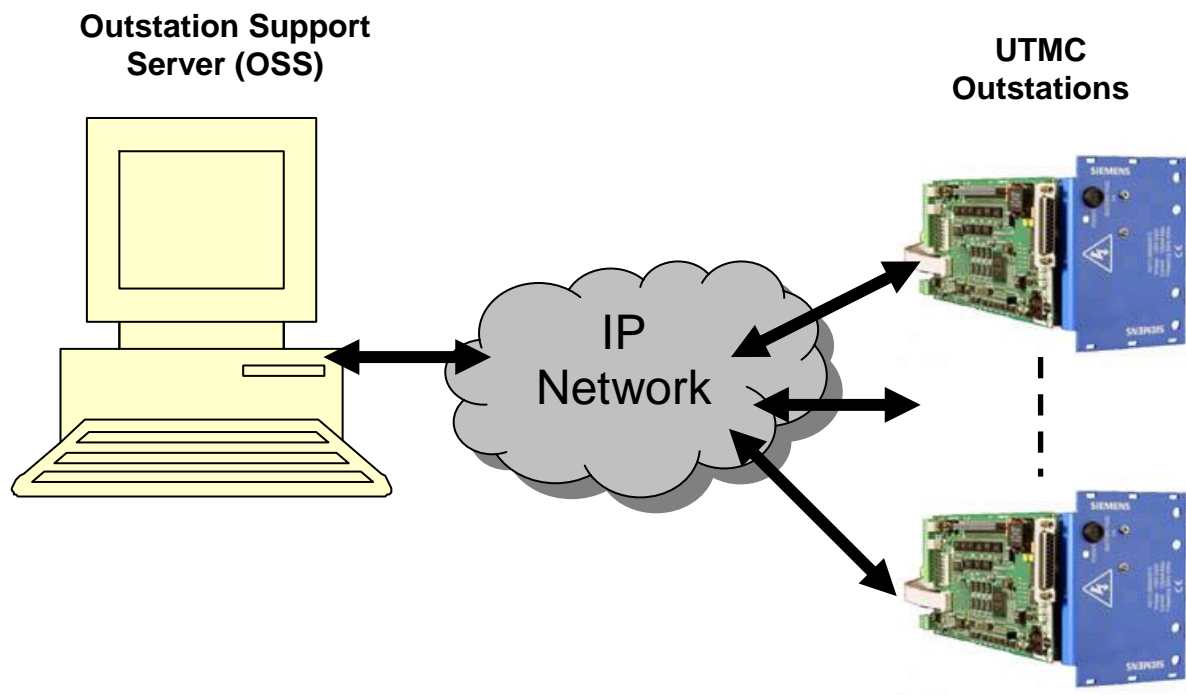


Figure 1 – OSS and Outstations

3. OSS Operation

3.1 INSTALLATION

The PC on which the OSS software is installed must have network access to the UTMC outstations on IP ports 80 and 69 i.e. these ports must not be blocked by intervening firewalls or routers.

The OSS software is compatible with Windows XP, Windows 7, Windows Server 2003, Windows Server 2008 and Windows Server 2012.

Windows XP and Windows server 2003 not recommended for new installs.

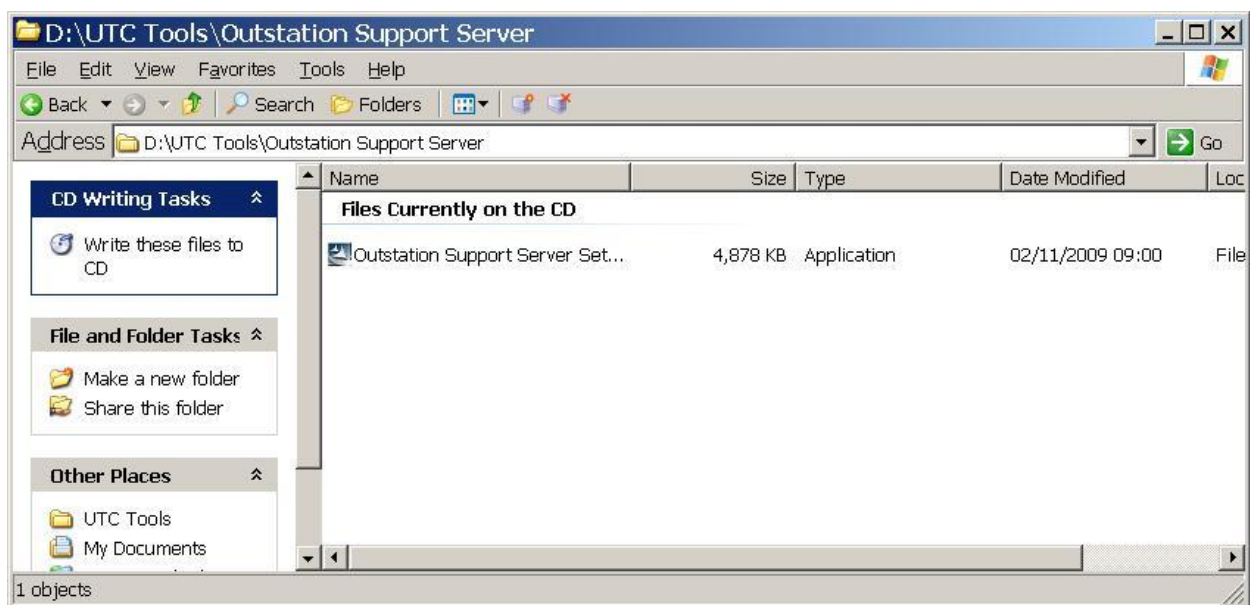
Installation pre-requisites;

- Java JRE (32bit version) 1.7 or later must be installed on host PC.

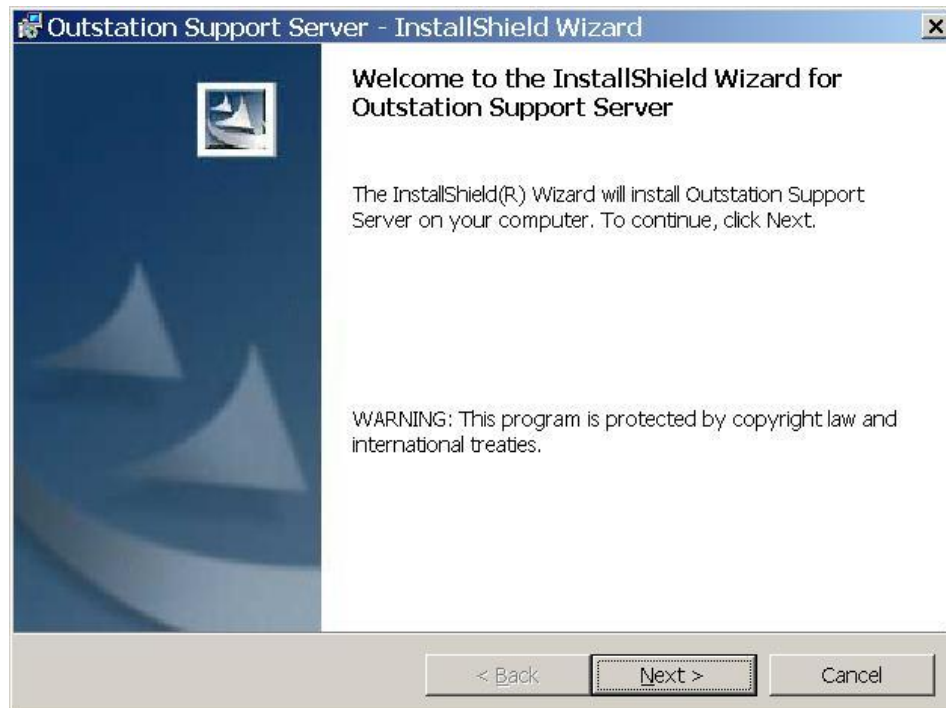
The OSS installation sequence, using the UTC instation CD is described below. Installation from other sources (e.g. executable 667-TZ-32450-000.exe) will follow the same overall procedure.

Using windows explorer, open the UTC instation CD and navigate to the following folder

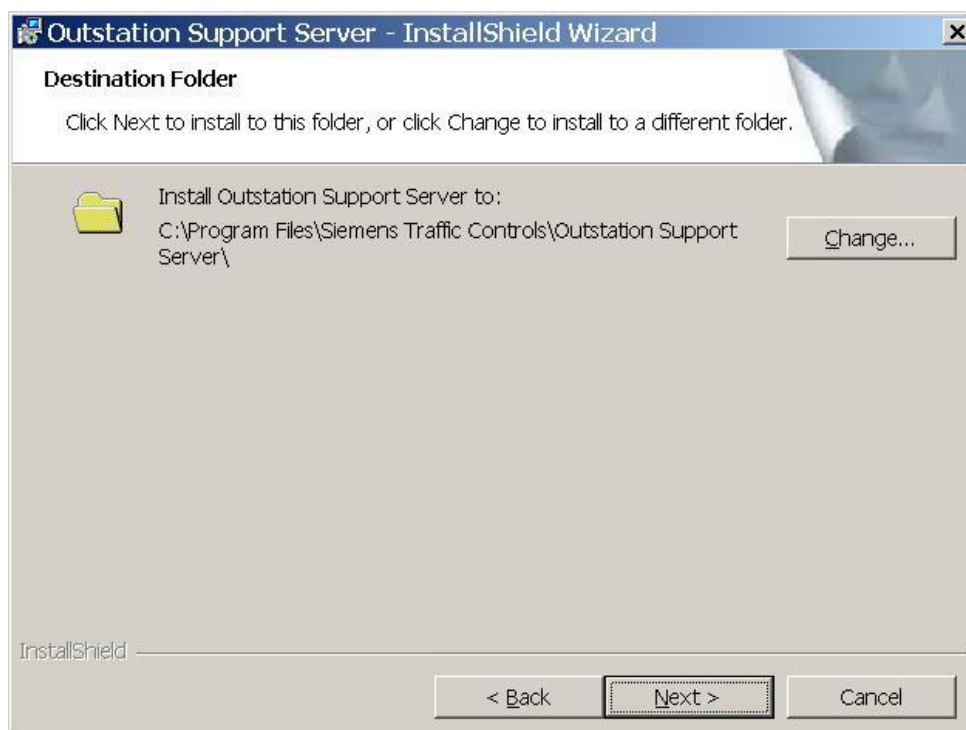
\UTC Tools\Outstation Support Server



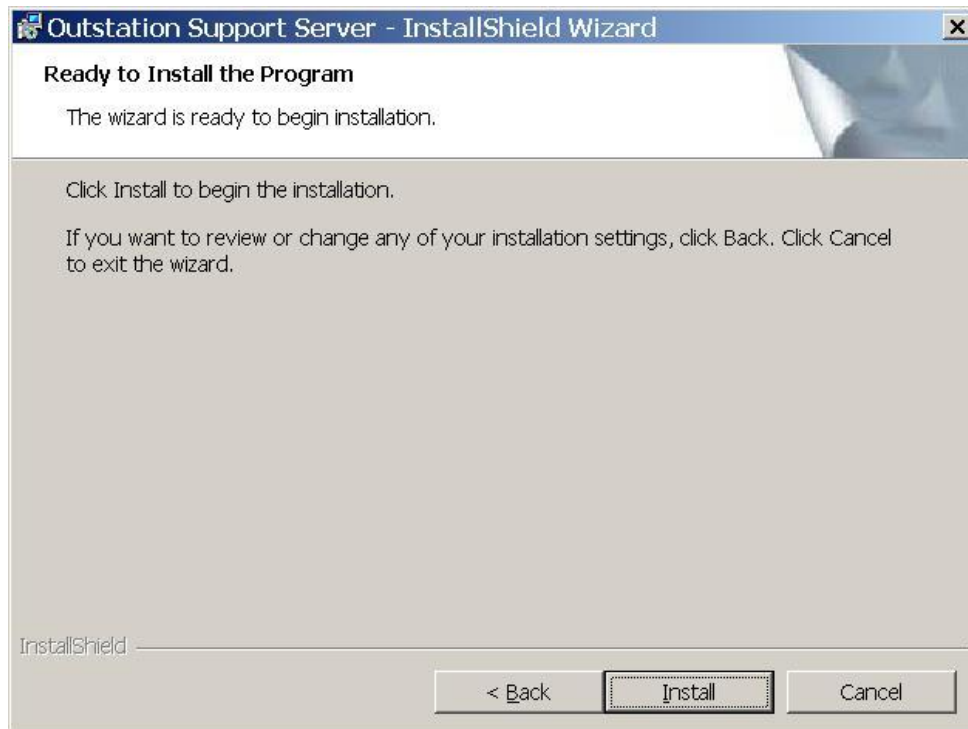
Double-click on the “Outstation Support Server Setup.exe” icon.



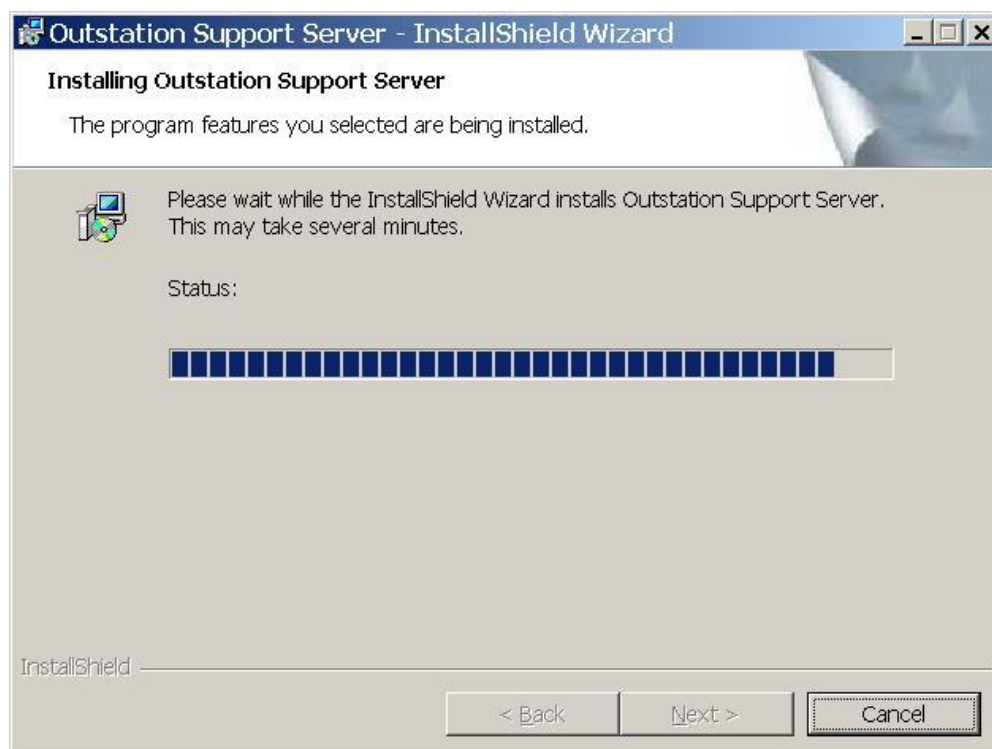
Click "Next".



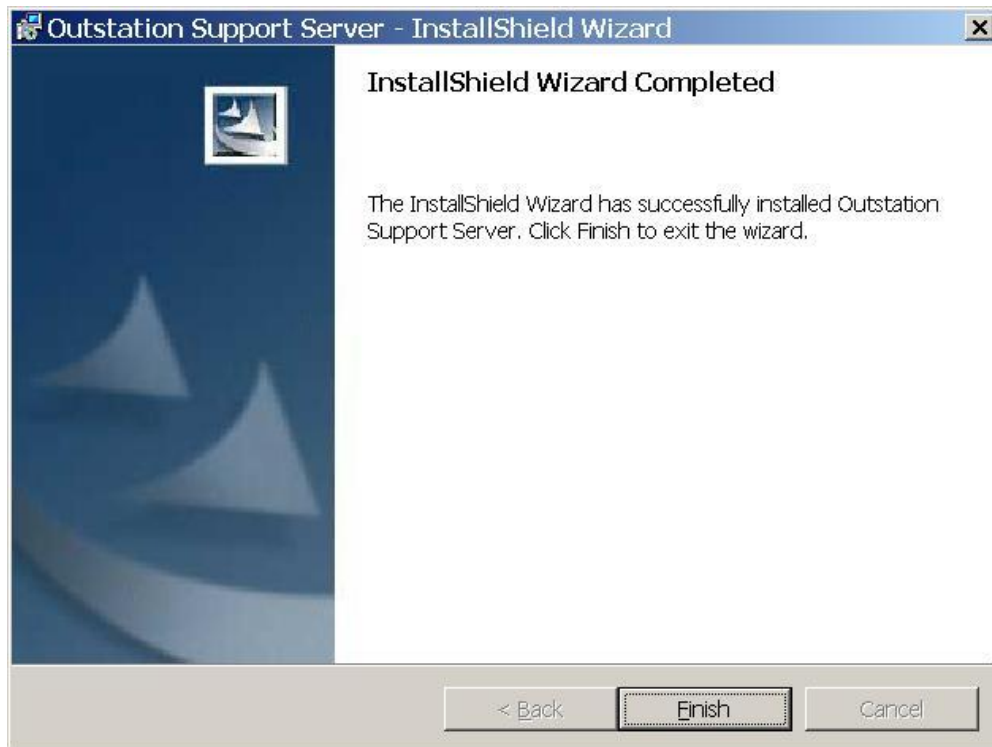
Change the installation directory if required or leave at the recommended install path and click "Next".



Click on "Install".



The installation will then proceed as shown above.



Click "Finish" to complete the installation procedure.

To access the OSS, open Internet Explorer and type in the IP address of the OSS PC, using https, and followed by :9180, for example, <https://137.223.72.58:9180>. If the browser reports a problem with the security certificate, accept the certificate and continue.

On the login dialogue box, enter the oss username and password.

3.2 OSS LICENSING

The OSS requires a license code in order to provide all facilities. The license code is provided by Siemens, Poole and is entered into the OSS on the OSS “Admin – License Manager” screen.

The screenshot shows the Siemens OSS Admin interface. The top navigation bar includes the Siemens logo, the text 'Outstation Support Server', and links for Home, Outstations, Packages, Admin, and About. A status message indicates the license code is out of date and the OSS is disabled. The left sidebar contains a list of navigation options: User List, User Edit, Network, Configuration, OSS Configuration, and License Manager (which is highlighted). The main content area is titled 'OSS Admin' and 'License Manager'. It contains fields for License Code, Authority Name, Expiry Date, and a New License Code input field. A message states 'License Code not Valid'. There are two buttons: 'Use new License code' and 'Reset'.

The license code is a 30-character string so it is preferable to copy the license code electronically e.g. from an email.

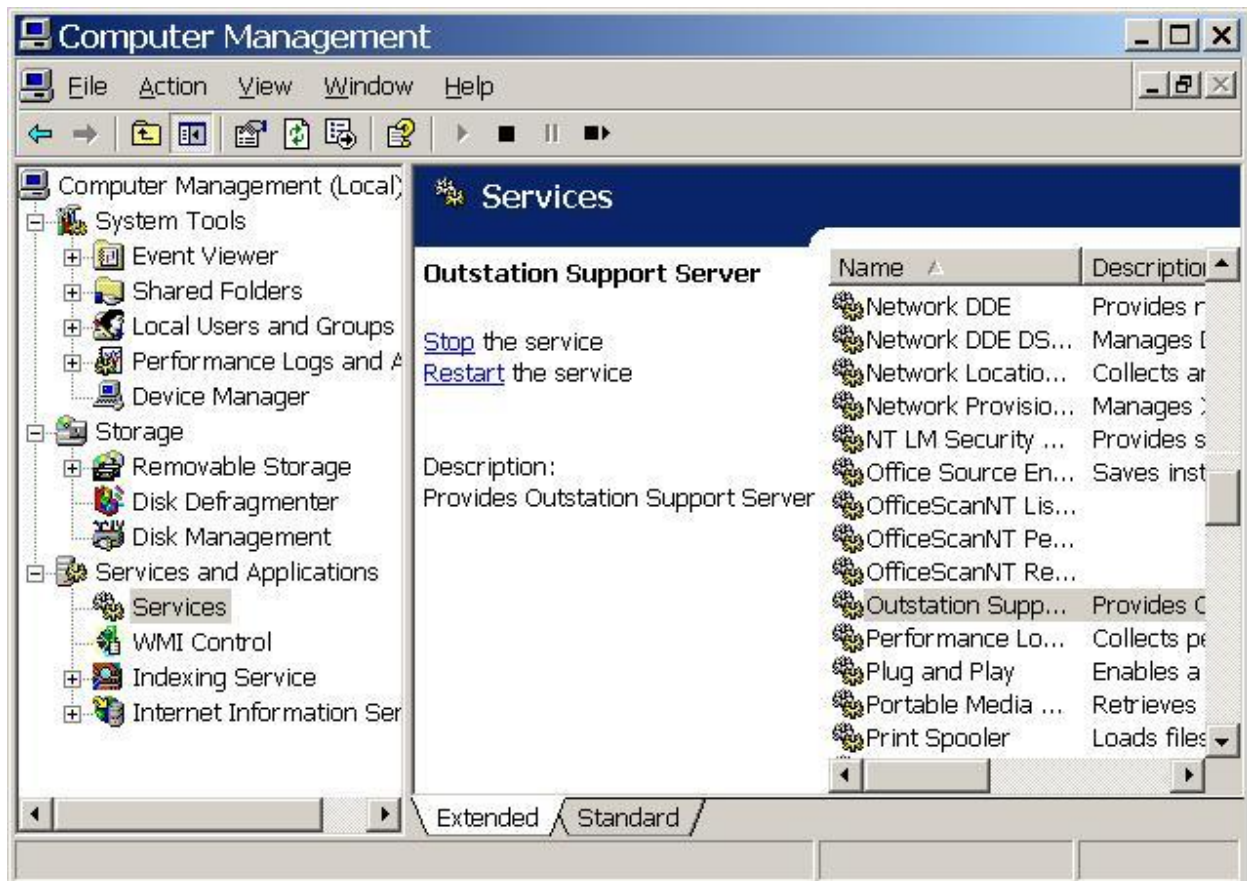
Paste the license code into the "New License Code" field and use the "Use New License Code" button to activate the license.

Refresh the browser page – typically by using the “F5” key or the “refresh” menu icon – and then the new license user name and expiry date will be displayed in the top menu bar.

See section 3.4.13 for additional information on the license code operation.

3.3 OSS MAINTENANCE AND FAULT FINDING

The OSS is run as a windows service. It can be started and stopped using the windows Computer Management facilities as shows below:-



3.3.1 Network and Firewall Settings

In order to allow outstations to register with the OSS, the OSS PC must be accessible on the outstation network.

If the OSS is not showing any outstation registrations, check that the windows firewall on the OSS PC is not blocking access. Also check network settings in any firewalls and routers. Access is required on ports 69 and 8080.

3.3.2 Data File Location

The outstation configuration and package files are stored in sub-directories at:-
C:\Documents and Settings\All Users\OSSFileStore

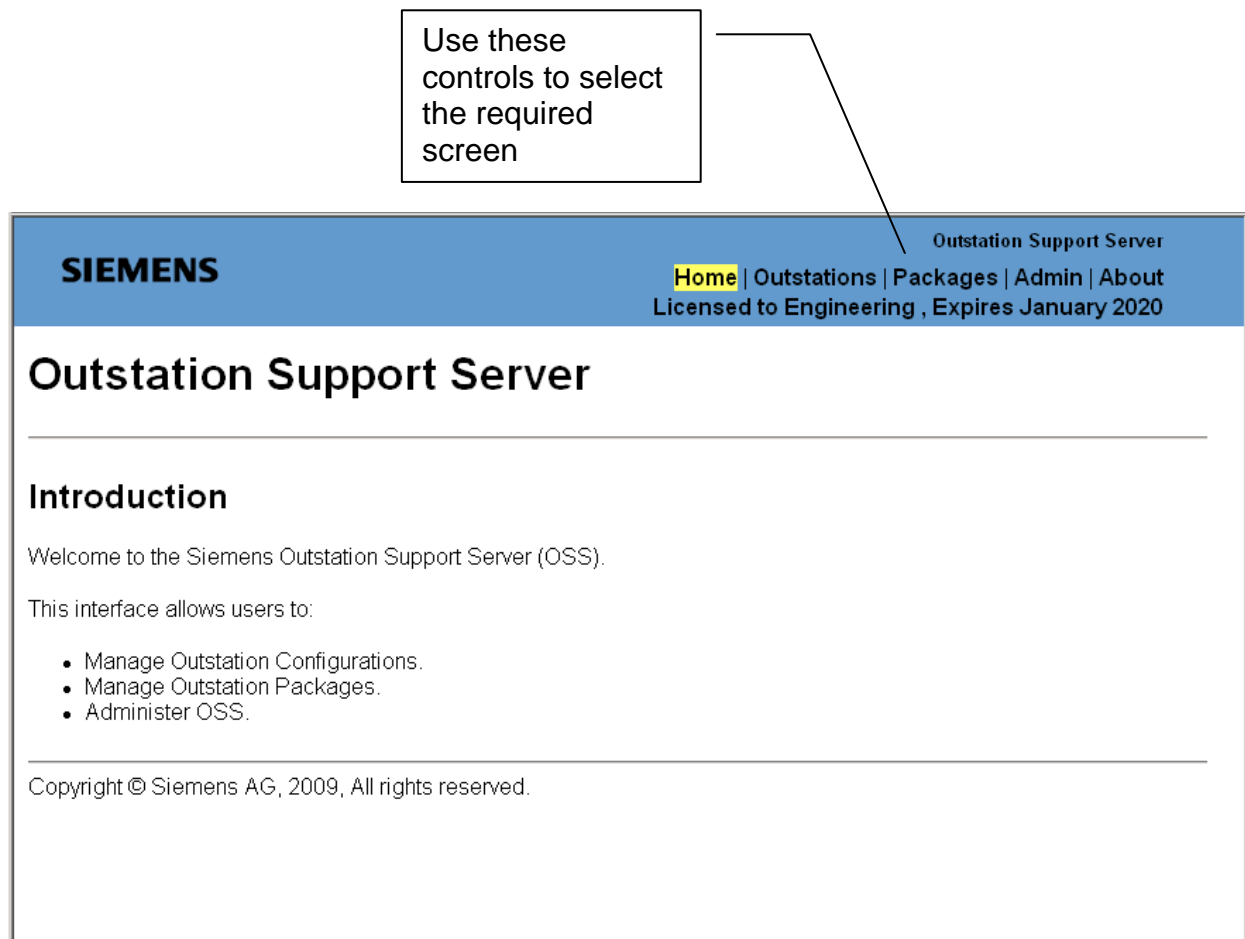
3.4 OSS SCREEN DESCRIPTIONS

The following sections describe the operations which can be carried out on the OSS via the web interface.

3.4.1 Home Screen and Navigation

The “Home” screen displays a summary of the OSS features, as shown below.

Navigation is achieved by selecting from the options available on the top right.



3.4.2 Outstation List Screen

The “Outstation” screen displays a list of the registered outstations.

The screenshot shows the 'Outstation Management' screen. On the left is a sidebar with links: 'Outstation List', 'Outstation Map', 'Register', and 'Upload Default'. The main header includes the Siemens logo and navigation links: 'Home | Outstations | Packages | Admin | About', along with a license notice: 'Licensed to Siemens Eng, Expires January 2020'. The main content area is titled 'Outstations' and states 'The following outstations are registered with OSS.' Below this is a table with columns: 'Site Id', 'Location', 'Description', 'Registered', 'Package', 'Version', and 'Latest'. The 'Registered' column highlights dates in red for outstations that have not registered recently. The 'Version' and 'Latest' columns highlight version numbers in yellow for outstations not running the latest software package. Callout boxes point to these specific columns with explanatory text. At the bottom of the table are 'New' and 'Refresh' buttons. To the right of the table are buttons for 'Delete', 'Configs', and 'Data' for each row.

Site Id	Location	Description	Registered	Package	Version	Latest	Upgrade Status
J0122435	-	-	30 Apr 13	667/TZ /32378/000	1.3	1.99	Delete Configs Data
J99111	-	-	30 Apr 13	667/TZ /32378/000	1.3	1.99	Delete Configs Data
X002	-	-	22 Jan 13	667/TZ /32378/000	1.0	1.99	Delete Configs Data
X0100555	-	-	16 May 13	667/TZ /32378/000	1.3	1.99	Delete Configs Data
X80130	-	-	16:12:09	667/TZ /32378/000	1.99	1.99 ok	Delete Configs Data
X88110	-	-	2 May 13	667/TZ /32378/000	1.3	1.99	Delete Configs Data
X99110	-	-	2 May 13	667/TZ /32378/000	1.3	1.99	Delete Configs Data

Siteld

This field lists the Site Name as set in the outstation configuration data.

Location

Location information obtained from the outstation where available.

Description

Outstation description obtained from the outstation where available.

Registered

If the outstation has registered with the OSS recently, then this will contain the last registration time. If the outstation has not registered with the OSS today, then this will contain the last registration date.

The field is highlighted in **RED** if the outstation has not registered for more than the timeout interval (normally 25 hours). Each outstation registers with the OSS at 60 minute intervals. The registration/backup interval is configurable at the outstation.

Package

This is the outstation software package part number.

Version

This is the outstation software package version number.

Latest

This is the latest available version of outstations software package which has been loaded onto the OSS.

The field is highlighted in **ORANGE** if the outstation version is older than the latest.

Upgrade Status

This field indicates “OK” if the outstation is already running the latest software package which has been loaded onto the OSS.

The text is updated when a scheduled upgrade of the outstations is taking place, in order to display the result of the upgrade. The possible displays are:-

Display	Meaning
OK	Upgrade completed successfully
up-to-date	Upgrade not required, package is up to date
no package	Upgrade abandoned, package not found
no address	Upgrade abandoned, outstation has no IP address
timed-out	Upgrade abandoned, outstation timed-out
no outstation	Upgrade abandoned, register entry not found
no site id	Upgrade abandoned, invalid site identifier
xml-rpc error	Upgrade postponed, protocol error

Delete

Use the “Delete” button to remove the outstation registration from the OSS. This would be used, for example, where an outstation has been removed from the system or re-located.

Configs

Use the “Configs” button to display a list of the outstation configuration files which are held on the OSS for that outstation.

Data

Data relevant to applications running on the outstation. Section 3.4.3 describes the MOVA7 TMA log files and how to access them.

3.4.3 MOVA 7 TMA Log Files

The application data screen displays after clicking on the data button on the Outstation Management screen. This screen lists applications that report data back to the OSS, in this case MOVA 7. To view the data click on the view button beside the application name.

The screenshot shows the 'Outstation Management' interface. The top blue header contains the 'SIEMENS' logo on the left and navigation links ('Home | Outstations | Packages | Admin | About') and a license notice ('Licensed to Siemens Eng , Expires January 2020') on the right. A left sidebar lists 'Outstation List', 'Outstation Map', 'Register', and 'Upload Default'. The main content area is titled 'Outstation Management' and 'Application Data'. It states 'The following Application Data are available for X80130.' and displays a table with one entry: 'MOVA7'. To the right of 'MOVA7' is a 'view' button. Below the table is a 'Refresh' button.

Application
MOVA7

Data directories organised by stream. Click on view to display directories containing TMA log categories.

The screenshot shows the 'Outstation Management' interface with the 'Data Files' section active. The top blue header and left sidebar are identical to the previous screenshot. The main content area is titled 'Outstation Management' and 'Data Files'. It states 'The following data files are available in . for MOVA7 at X80130.' and displays a table with four entries, each representing a directory (J80131, J80132, J80133, J80134). Each entry has 'delete', 'view', and 'export' buttons. Below the table are 'New' and 'Refresh' buttons.

Filename	Description	delete	view	export
J80131	Directory			
J80132	Directory			
J80133	Directory			
J80134	Directory			

TMA log categories, click on view to display a list of log files for that category

The screenshot shows the 'Outstation Support Server' web application. The left sidebar contains links: 'Outstation List', 'Outstation Map', 'Register', and 'Upload Default'. The main content area is titled 'Outstation Management' and 'Data Files'. It states: 'The following data files are available in .\J80133 for MOVA7 at X80130.' Below this is a table with columns 'Filename' and 'Description'. Each row represents a directory and includes 'delete', 'view', and 'export' buttons. At the bottom of the table are 'New' and 'Refresh' buttons.

Filename	Description	delete	view	export
..	Parent Directory			
DetHistLogs	Directory			
EndSatLogs	Directory			
FlowLogs	Directory			
OccLogs	Directory			
OverSatLogs	Directory			
PedSerLogs	Directory			
TrafSerLogs	Directory			

New Refresh

List of log files, click on delete to delete that file, view to display its contents in a text box (see next screen display) or export to export the file.

This screenshot shows the same web application but with the 'FlowLogs' category selected. The text now reads: 'The following data files are available in .\J80133\FlowLogs for MOVA7 at X80130.' The table below lists individual log files with their timestamps and the same 'delete', 'view', and 'export' buttons.

Filename	Description	delete	view	export
..	Parent Directory			
Flow0502.log	Thu May 02 09:26:16 BST 2013			
Flow0502.log	Thu May 02 10:26:54 BST 2013			
Flow0502.log	Thu May 02 11:27:00 BST 2013			
Flow0502.log	Thu May 02 13:27:05 BST 2013			
Flow0502.log	Thu May 02 14:27:20 BST 2013			
Flow0502.log	Thu May 02 15:27:26 BST 2013			
Flow0502.log	Thu May 02 16:27:33 BST 2013			
Flow0502.log	Thu May 02 17:27:39 BST 2013			
Flow0502.log	Thu May 02 18:27:45 BST 2013			
Flow0502.log	Thu May 02 19:27:52 BST 2013			
Flow0502.log	Thu May 02 20:27:58 BST 2013			
Flow0502.log	Thu May 02 21:28:04 BST 2013			
Flow0502.log	Thu May 02 22:28:10 BST 2013			

3.4.4 Outstation Manual Registration Screen

The “Register” screen allows an outstation to be registered manually.

When an outstation is installed and commissioned, it is normally configured with the OSS IP address and the OSS interface is enabled. The outstation will then register with the OSS automatically and so manual registration is unnecessary.

SiteId

The Site Name as set in the outstation configuration data. This is normally the same name as used on the instation system e.g. for a UTC system it would be the site SCN, such as X11910 or X01220. The OSS uses this information to recognise an outstation when it registers.

IP Address

The IP network address to be allocated to the outstation by the network administrator.

HTTP Port

The IP port used by the outstation when it registers with the OSS. The HTTP port is normally set to 8080.

3.4.5 Configuration Upload Screen

The “Configuration Upload” screen allows a configuration file to be imported and this file will become the default configuration file for the specified outstation. This allows a configuration to be pre-loaded onto the OSS, in preparation for downloading to the outstation when it is installed and commissioned.

Alternatively, the configuration can be created on the outstation when the outstation is commissioned and the outstation configuration file will be backed up to the OSS automatically, provided that the OSS backup facility has been enabled on the outstation.

SiteId

Enter the Site Name of the outstation whose configuration is about to be imported.

FileName / Browse

Use the “Browse” button and then use the file selection dialogue box to navigate and select the outstation configuration file to be imported.

Upload

Use the “Upload” button to import the selected outstation configuration file to the OSS.

Reset

Use the “Reset” button to clear the SiteId and FileName fields.

3.4.6 Packages Screen

The “Packages” screen displays a list of the outstation software packages currently held on the OSS.

Part No	Version	Description	Filename	Delete
667/TZ/32289/000	1.0	UTMC CarPark and VMS	REL_32289_1_0.zip	Delete
667/TZ/32369/000	01.00	UTMC OTU (4MB RAM)	REL_32369_01_00.zip	Delete
667/TZ/32369/000	01.09	UTMC OTU (4MB RAM)	REL_32369_01_09.zip	Delete
667/TZ/32369/000	02.00	UTMC OTU (4MB RAM)	REL_32369_02_00.zip	Delete
667/TZ/32370/000	1.6	UTMC OTU (16MB RAM)	REL_32370_01_06.zip	Delete
667/TZ/32370/000	1.7	UTMC OTU (16MB RAM)	REL_32370_01_07.zip	Delete
667/TZ/32370/000	1.8	UTMC OTU (16MB RAM)	REL_32370_01_08.zip	Delete
667/TZ/32370/000	1.9	UTMC OTU (16MB RAM)	REL_32370_01_09.zip	Delete

PartNo

This is the Siemens part number which uniquely identifies the software package.

Version

This is the version number of the package, as read from the information in the package file. The number is of the form:-

mm.nn where mm is the major version and nn is the minor version

Description

This is the text description of the software package, as read from the package file.

Filename

This is the file name of the package file in the directory on the OSS PC.

Delete

Use the “Delete” button to remove the corresponding package file from the OSS.

3.4.7 Upload Package Screen

The “Upload Package” screen allows the user to import a new outstation software packages onto the OSS.

FileName / Browse

Use the “Browse” button and then use the file selection dialogue box to navigate and select the outstation software package file to be imported.

Upload

Use the “Upload” button to import the selected outstation software package file to the OSS. Once uploaded, the new package will appear on the packages screen (see section 3.4.6) and be available on the outstation’s “Upgrade” screen.

Reset

Use the “Reset” button to clear the FileName field.

3.4.8 Upgrade Schedule Screen

The “Upgrade Schedule” screen allows the user to enable the scheduling of software package upgrades to all registered outstations between the specified start and stop times.

SIEMENS Outstation Support Server
Home | Outstations | Packages | Admin | About

Packages
Upload Package
Schedule

Package Management

Upgrade Schedule

Please enter the new schedule.

Current Status: Inactive

NOTE: Leave the "Day" field empty for daily schedule.

	Day	Hour	Min
Start time:	<input type="text"/>	<input type="text" value="2"/>	<input type="text" value="0"/>
End time:	<input type="text"/>	<input type="text" value="4"/>	<input type="text" value="0"/>

Enable: ☐

Start time

Enter the time at which automatic upgrade of outstations is to start:-

Day

Day of the week i.e. Sun, Mon, Tue, Wed, Thu, Fri, Sat or leave blank to represent any day.

Hour

Hour value from 0 to 23

Min

Minutes value from 0 to 59

Stop time

Enter the time at which automatic upgrade of outstations is to stop:-

Day

Day of the week i.e. Sun, Mon, Tue, Wed, Thu, Fri, Sat or leave blank to represent any day.

Hour

Hour value from 0 to 23

Min

Minutes value from 0 to 59

Enable

Tick this box to enable the automatic upgrade scheduling and use the “Update” button to apply the change.

Similarly, un-tick the box to disable automatic upgrade scheduling and then use the "Update" button to apply the change.

Update

Use the “Update” button to submit the new values. If the new values are accepted then a “Success” message will be displayed on the screen. If there is a problem, then an “Error” message will be displayed on the screen indicating the cause of the problem.

Reset

Use the “Reset” button to discard any changes which have not yet been submitted and re-load the current values.

3.4.9 OSS Admin – User List Screen

The “User List” screen allows users to be added and removed and security details to be updated.

SIEMENS Outstation Support Server
Home | Outstations | Packages | Admin | About
Licensed to Engineering , Expires January 2020

User List
User Edit
Network
Configuration
OSS
Configuration
License Manager

OSS Admin

OSS Users

The following users have access to the OSS web interface.

User name	Roles		
jon	user, security	Delete	Edit
mark	user, security	Delete	Edit
oss	user, security	Delete	Edit

New Refresh

User Name

This is the user name as entered when the user is first added. The user name is used for logging into the OSS.

Roles

The available roles are:-

User	Ordinary user privileges to operate the OSS
Security	Can add and edit users.

Delete

Remove the user from the OSS.

Edit

Edit the details for the associated user.

New

Register a new OSS user.

Refresh

Update the screen with the latest user information.

3.4.10 OSS Admin – User Edit Screen

The “User Edit” screen allows users details to be updated.

The screenshot shows the Siemens OSS Admin interface. The top blue bar contains the Siemens logo on the left and navigation links (Home | Outstations | Packages | Admin | About) and a license notice (Licensed to Engineering, Expires January 2020) on the right. A left sidebar menu lists: User List, **User Edit** (highlighted in yellow), Network, Configuration, OSS, Configuration, and License Manager. The main content area is titled 'OSS Admin' and 'User Registration'. It includes the instruction 'Please enter a username and password.' followed by input fields for 'Username:' and 'Password:'. Below these is a 'Roles:' section with a checkbox labeled 'security'. At the bottom of the form are two buttons: 'Register' and 'Reset'.

User Name

User name to be edited or added. The user name is used for logging into the OSS.

Password

Enter the new user password.

Roles

Tick the “security” box if the user can add and edit other users.

Register

Submit the details for the specified user.

Reset

Discard any screen changes and update the screen with the latest user information.

3.4.11 OSS Admin – Network Configuration Screen

The “Network Configuration” screen allows the IP port details to be updated.

The screenshot shows the Siemens OSS Admin interface. The top blue bar contains the Siemens logo on the left and navigation links (Home, Outstations, Packages, Admin, About) and a license notice on the right. A left sidebar menu lists 'User List', 'User Edit', 'Network Configuration' (highlighted in yellow), 'OSS', 'Configuration', and 'License Manager'. The main content area is titled 'OSS Admin' and 'Network Configuration'. It contains a text prompt 'Please enter the network configuration.' followed by two input fields: 'OSS Port Number' with the value '9180' and 'Application Port Number' with the value '8080'. Below these fields are 'Update' and 'Reset' buttons.

OSS Port Number

This is the IP port number of the OSS web interface. The default port number 9180 is used to avoid clashing with other web servers which may be running on the PC.

Application Port Number

This is the IP port number of the application interface.

Update

Submit the new port settings.

Reset

Discard any screen changes and update the screen with the latest information.

3.4.12 OSS Admin – OSS Configuration Screen

The “OSS Configuration” screen displays the current OSS configuration values.



SIEMENS Outstation Support Server
Home | Outstations | Packages | Admin | About
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User List
User Edit
Network
Configuration
OSS
Configuration
License Manager

OSS Admin

OSS Configuration

The OSS configuration is summarised below.

File System

Root Directory: /Documents and Settings/All Users/OSSFileStore
Temporary File Directory: /Documents and Settings/All Users/OSSFileStore\tmp

Web Service

Port: 80
Root Directory: htdocs
Realm Name: OSS
Roles: user, security
Authentication: DIGEST
User: oss

Web Security

Filename: /Documents and Settings/All Users/OSSFileStore/realm.properties

The information on the screen is read-only.

3.4.13 OSS Admin – License Manager Screen

The “License Manager” screen displays the current OSS license code and allows a new license code to be entered.

The license expires on the first day of the month specified as the license expiry date. Once the license has expired, outstations will no longer be able to backup their configurations to the OSS. Outstations will also be prevented from updating their firmware package from the OSS.

For 30 days before the license expiry, the number of days remaining will be displayed on the top menu bar. Note that this display is only updated when logging in to the OSS or when the browser refresh button is used.

License codes are supplied by Siemens, Poole.

The screenshot shows the 'OSS Admin License Manager' screen. The header includes the Siemens logo and navigation links: Home | Outstations | Packages | Admin | About. Below the header, it states 'Licensed to Engineering , Expires January 2020'. The left sidebar menu includes: User List, User Edit, Network Configuration, OSS Configuration, and License Manager (highlighted). The main content area displays the 'OSS Admin License Manager' form with the following fields and buttons:

- License Code: [Read-only field]
- Authority Name: Engineering
- Expiry Date: January 2020
- New License Code: [Input field]
- Buttons: Use new License code, Reset

License Code

This is the License code currently in use by the OSS. This field is read only.

Authority Name

This is the Local Authority to whom the OSS is licensed. The Authority Name is derived from the License Code. This field is read only.

Expiry Date

This is the month and year when the license will expire (on the first day of the month). This field is read only.

New License Code

Paste the supplied license code into the "New License Code" field and use the "Use New License Code" button to activate the license.

Refresh the browser page – typically by using the “F5” key or the “refresh” menu icon – and then the new license user name and expiry date will be displayed in the top menu bar.

3.4.14 OSS Admin – Disc Usage Screen

The “Disc Usage” screen displays the number of files currently being backed up by the OSS and the amount of disc space used up by these files.

If export of TMA logs to the OSS is enabled there will be a periodic addition of files to the disk drive. It will therefore be necessary to archive the TMA log files from time to time.

This webpage can help to determine when the host PC disc usage is high, and archiving is required to ensure disc space is available for new files.

SIEMENS Outstation Support Server
Home | Outstations | Packages | Admin | About
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User List
User Edit
Network Configuration
OSS Configuration
License Manager
Disc Usage

OSS Admin

Disc Usage

Data Type	Directories	Files	Bytes
Config	44	669	388746201
Package	1	50	302479267
Data	45	1448	3659668
Total	90	2167	694885136

Disc Space

Free space: 77669.22 MB
Total space: 152617.47 MB

Refresh

<https://172.16.30.247:9180/discUsage>

Disc Usage

Shows the disc usage of the different file types (config, package, and data). The total disc usage of each file type is shown in Bytes on the right most column.

Disc Space

Shows the free space and total size of the main disc drive on the host PC.

3.4.15 OSS About Screen

The “About” screen displays information on the OSS software, including its Siemens part number and copyright information for its associated software components.

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[Home](#) | [Outstations](#) | [Packages](#) | [Admin](#) | [About](#)
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Outstation Support Server (667/TZ/32450/000 issue 2.0 build 1)

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Apache Commons IO	Copyright 2001-2008 The Apache Software Foundation.
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Apache XML-RPC	Copyright 2001-2008 The Apache Software Foundation.
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The information on the screen is read-only.

Appendix A

The text following is the licence for the open software that is included in the Outstation Support Software.

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or for a fee, you must give the recipients all the rights that we gave
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with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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