Demo Installation Quick introduction

Relative to Release 90.4

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1 Introduction

Welcome to the SURE 'change & control' system demonstration. We are pleased that you have chosen to investigate how SURE can assist you in your change control needs.

Originally SURE was designed to keep track of changes and to prevent the loss of changes when modifying source modules. The first version was released in 1983 and was specifically tailored for Unisys A-Series systems. From that time, SURE has proven to be a powerful assistant for project leaders, programmers, change controllers, security managers, auditors, and even operators.

Actually, hundreds of data processing professionals in dozens of companies have contributed to the development of SURE by telling us what they needed to perform their duties. The diversity of SURE's existing users assures that the system provides you with immediate and tangible benefits.

As in many other areas of endeavor, a few moments spent initially on understanding the overall picture of the SURE system will be more than repaid when you begin to use SURE in your own environment. This demonstration is designed to guide you from a point where you lack any specific knowledge of SURE to a point where you have seen some of the things SURE can accomplish for you.

During this demonstration, a small SURE database (INFDB) is placed on your system. The demonstration handles the following issues:

- Environments
- Security
- Task registration
- Program life cycle support
- Change control functions
- Auditor functions
- Project leader functions

This demonstration makes a clear distinction between the above mentioned functions, as if each function is performed by a separate person. It is, however, obvious that all functions can be performed by one single person.

Section 2 of the demo is a step by step installation procedure.

Sections 3 and further contain a quick introduction to some SURE features.

Some paragraphs in this document are marked with character $\cancel{}$ or *. Character $\cancel{}$ means that this paragraph contains important information. Character * means that one or more actions have to be performed.

Please take a few moments to look over the following sections of the SURE demonstration. We appreciate your interest in SURE and hope that by the time you complete this demonstration you will share our enthusiasm for SURE. If we can be of service to you please contact us as follows:

ITSforSURE Haarlem The Netherlands

Email: sure@itsforsure.nl

The SURE software is placed on the SURE website <u>www.itsforsure.nl</u>

- Download the software and unzip:
 - Click on <download> to enter the download section.
 - Download file "MCP and Windows software incl. patches" of the newest release.
 - Unzip the downloaded zip file to a place anywhere on your workstation. You will see the following directory structure:
 - .. SureReleasexx (where xx is a two-digit release number)
 - \CPNX_software \DATA Text Integration \Ris for Windows \SURE for windows \<about 20 files> \Install.exe \Installation of SURE.doc
- * Installation of server software on the mainframe:
 - Directory CPNX_software contains a containerfile SURExxMCPyyy with MCP software (where xx is the SURE release number and yyy is the MCP release number)
 - FileTransfer this containerfile with BINARY FTP as follows
 - $\circ \quad \text{Open command prompt} \\$
 - FTP <your host>
 - Usercode/password
 - type binary
 - put SURExxMCPyyy
 - On the mainframe: install the software via the procedure as described in paragraph "Copy and install the mainframe software".
 - Chapter 9.2 of document "installation of SURE.doc" gives valuable background information about the mainframe software.
- ✤ Installation of client software on a PC:
 - Install the SURE client software via the install.exe program as described in paragraph "Installation of SURE on the PC".
 - Chapter 9.1 of document "installation of SURE.doc" gives valuable background information about the client software.

2.1 Installation on the mainframe

2.1.1 Copy and install the mainframe software

The first step in the SURE demonstration is to copy the SURE software from the tape to your system. It is helpful to read the installation document before you continue with the installation.

During the demonstration, a small SURE database (called INFDB) is placed on your system. This database is the SURE repository.

A SURE repository is subdivided into logical environments. Each environment corresponds with a phase in the development process. The amount of logical environments and the names of these environments are normally determined by the customer (= you). Common environment names are DEVELOP, DESIGN, ACCEPTANCE, INTEGRATION, PRODUCTION, HISTORY et cetera.

This demonstration starts with a repository that has only one environment: DEVELOP During the demonstration, two extra environments are created: ACCEPTANCE and PRODUCTION. For each environment you need at least two usercodes:

- A usercode where a user logs on to do this jobs (programming etc.). This is the WORK usercode.
- A usercode where the SURE evening batch runs. This is the BATCH usercode.

Since you also need a separate installation usercode and a personal usercode for authentication in SURE, the total amount of new usercodes that you need for this demo is eight.

SURE can be installed in any directory on your system. You can choose your own usercode and diskpack where SURE must be installed. During this demo we use the following usercodes:

Usercode		Purpose
SURE	PU	Installation usercode where the software must be installed.
<personal usercode=""></personal>		for authentication, for example a persons name like SIMON
DEV		Work usercode for environment DEVELOP.
DEVBATCH	PU	Batch usercode for environment DEVELOP.
ACC		Work usercode for environment ACCEPTANCE.
ACCBATCH	PU	Batch usercode for environment ACCEPTANCE.
PRO		Work usercode for environment PRODUCTION.
PROBATCH	PU	Batch usercode for environment PRODUCTION.

You are free to use your own set of usercodes. In that case you must substitute the above mentioned usercodes with your own usercodes.

All usercodes must have the same FAMILY specification. This family specification can be decided by you.

The family specification used in this document is FAMILY DISK = DEMOPK OTHERWISE DISK.

Dease make sure that the installation usercode (SURE) is a privileged user (PU), otherwise the installation will fail.

The installation can now be started.

- * The software is delivered via a wrapped container file. Unwrap the container file as follows:
 - 1. Log on to Cande with the usercode where the file is placed.
 - 2. Unwrap the container file:

- WFL UNWRAP *= OUTOF <container> TO <pack> (PACK, RESTRICTED=FALSE)
- This copies the software to usercode-directory (INFRA) on <pack>
- 3. Log on via Cande with the installation usercode (SURE): - HELLO SURE/<password>
- 4. Process the installation DO-file: - DO (INFRA)RESPECT/SETUP("<packname>(PACK)")

Set-up copies additional files to the installation usercode and initiates the installation program called OBJECT/RIS/INSTALL.

The 1st installation screen: Define the installation action: new, update, import



Please specify on the line 'Create a new repository' to choose that option.



Please specify on the line 'Copy all objects' to choose that option.

The 3rd installation screen: Define the medium from where you want to install



Please specify on the line 'Copy from disk family'.

The 4th and last installation screen: Define the usercodes and packs where you want to place the software.

Attachmate Accessory Manager - [IDR	END]		
Elle Edit View Tools Session Options Window	Help		- 0 ×
Specify Back RIS 6.0	Install-info (c	2007 Infra Design	B.V. A
PREVIOUS HELP Save			
THE TODO THEF OUTO			
Release object files from:	kountringekb 4	(PACK)	
Herease object fries from.	-your pack-	(TRAC)	
Release to:			_
Object upercode	NOIDE 4	on kovour nacks	
Object asercode	NOD IECT /	on Payour packs	
SIDE viedeve interface verd	FUDJEUT7	an betraue analys	
JORE WINDOWS INTERTACE USCO	N 1005 A	on Pryour pack>	
TUP/IP port number	1025	1 - 10 1 -	
Repository (INFUS database)	NO repository is v	151010	
Repository environment	SURE 4	on <pre>><your pack=""></your></pre>	•
Create a new INFBD repository			
Database usercode	▶SURE 4	on I <your pack=""></your>	•
Controlfile family		>>your pack>	
Audit family		Your pack>	
DMsupport family		your pack>	
Accessroutines title	▶SYSTEM/ACCESSROUTI	NES ON DISK	
DMRecovery title	▶SYSTEM/DMRECOVERY	ON DISK	
DMDataBecovery title	▶SYSTEM/DMDATARECOV	ERY ON DISK	4
DWSII release level	1504		1
CONTRACTOR TOTOL	P M M P		

Your current usercode and packname are pre-entered on this screen.

Please read chapter of the installation.doc 9.2.7 to obtain detailed information about the installation screen.

* Enter the fields on the installation screen to continue with the installation:

- Location of the general SURE objects:

Object usercode	=	`*' or SURE
Object pack	=	The pack where you want to install the objects.
Object prefix	=	The prefix of the objects (default = OBJECT/).
In the example screen above	ve the	object location is '(SURE)OBJECT/= ON <your pack="">'.</your>

If you choose object-usercode = '*', then the SURE objects are copied to directory '*' and they will be visible for all usercodes who are working on this disk-family via the normal MCP visibility rules.

If you choose object-usercode = SURE, then the SURE objects are copied to that directory. If a SURE program has to be started from another usercode, then the name of the object has to be prefixed with usercode SURE (e.g. RUN (SURE)RIS/MENU).

For this demo installation a `*' must be entered in the object-usercode field.

- Location of the objects of the SURE windows interface:

SURE windows interface uscd
SURE windows interface pack
TCP/IP port number

- = SURE
- = Preferably your current diskpack.
- = 1025

In the example screen above the object location of the SURE windows interface is '(SURE)OBJECT/= ON <your pack>'.

It is not necessary to install these objects in a global directory, because these objects are always started via a Coms program definition.

A TCP/IP port number must be entered to identify a port for the SURE windows interface. The port may not be in use by any other application. The default value is 1025. You are free to choose any other port number if you don't agree with the default value. Please notice that the port number also has to be defined at the SURE installation on the PC. Make sure that the same port number is used for the mainframe-installation and the PC-installation.

For this demo `SURE' must be entered in field `SURE windows interface uscd'.

- Repository environment:

The repository environment is defined as 'all usercodes that have access to repository-controlfile RESPECT/TITLES via the normal MCP visibility rules'.

- Repository env. usercode = `*' or SURE
- Repository env. pack = The diskpack of installation usercode SURE.

In the example screen above the repository environment is controlled by ' (SURE)RESPECT/TITLES ON <your pack>'.

Notice that file RESPECT/TITLES must be visible for all usercodes that are going to access SURE. If only one usercode is going to access SURE, then this specific usercode can be entered in field 'repository environment usercode', otherwise an '*' must be entered which refers to the global directory '*'.

For this demo a `*' must be entered in the `repository env. usercode' field.

- Location of the database:

INFDB database usercode	=	SURE.
INFDB database family	=	Any pack, not necessarily your current pack.
control-file family	=	Preferably equal to the INFDB database pack.
dmsupport family	=	Preferably equal to the INFDB database pack.
Audit file family	=	Choose a pack NOT equal to the INFDB pack.
DMSII release level	=	Your current DMSII release level.
Accessroutines	=	Enter your accessroutines program name
DMRecovery	=	Enter your Dmrecovery program name
DMDatarecovery	=	Enter your dmdatarecovery program name

* Transmit the screen when you are satisfied about the options in the input fields.

At this moment the fields on the install screen should be entered like below:

is moment the neids on the m	Stan Screen Si	ioulu be crite	i cu inte belon
Attachmate Accessory Manager - [IDRI	END]		
Elle Edit View Tools Session Options Window (Help		- @ ×
Specify Back RIS 6.0	Install-info	(c) 2007 Infr	a Design B.V. 🔺
PREVIOUS HELP Save			
Release object files from:	DEMOPK	(PACK)	
Release to:	a		
Object usercode	•*	ON PUEMUPK	•
Object prefix	▶OBJECT/	•	
SURE windows interface used	►SURE	I on ▶DEMOPK	4
TCP/IP port number	▶4764 4		
Repository (INFDB database)	No repository	is visible	
Repository environment	▶*	 on DEMOPK 	4
Create a new INFBD repository			
Database usercode	►SURE	 on DEMOPK 	4
Controlfile family		DEMOPK	4
Audit family		► AUDPAC	X 4
DMsupport family		▶DEMOPK	4
Accessroutines title	♦SYSTEM/ACCESS	ROUTINES ON DISK	4 💻
DMRecovery title	▶SYSTEM/DMRECO	VERY ON DISK	4
DMDataRecovery title	▶SYSTEM/DNDATA	RECOVERY ON DISK	4
DMSII release level	▶504		

Please notice the port number: in this example port 4764 is used, but you are free to choose any other port number

- ★ After you did the transmit, you must specify on button 'SAVE' (on the second line of the screen) to generate the installation job called WFL/RIS/INSTALL.
- Start the installation job: START WFL/RIS/INSTALL
 This job takes a few minutes to complete (depending on the power of your mainframe).

The installation job performs the following actions:

- Copy all objects and database files from the tape to the correct locations.
- Compile and install database INFDB.
- Authorize the installation usercode for all SURE commands and functions.
- Generate some jobs that you need during the demo.
- Give a message when the installation is completed.

The following files are now globally installed (in directory `*'):

*RESPECT/TITLES on <your pack>

*OBJECT/RIS/= on <your pack>

*OBJECT/RESPECT/= on <your pack>

All other files are installed in the installation directory (SURE):

(SURE)DASDL/INFDB (SURE)INFDB/= (SURE)OBJECT/RIS/API/= (SURE)DMSUPPORT/INFDB (SURE)DESCRIPTION/INFDB (SURE)RECONSTRUCT/INFDB (SURE)RISAPPLICATION/TITLES/WINDOWS

M Please notice again the importance of repository-control-file RESPECT/TITLES:

RESPECT/TITLES is a seqdata file and you can modify or list the file via Cande. The record that starts with key INFDB-LOCATION gives the location of the database control file. The record that starts with key OBJECT-LOCATION gives the location of the SURE-objects.

When a program is started, the first thing it does is opening the visible respect/titles file to obtain the SURE-database location, and to obtain the SURE-object-location. The second step is to link to library RESPECT/LIBRARY in the SURE-object-location. The third step is to open the SUREdatabase. The SURE-object-location is also used when a SURE-object starts another SURE-object. This procedure makes it possible that SURE can be installed in a very flexible way in whatever any database-location and SURE object-location.

2.1.2 COMS Definitions

The SURE package has two interfaces to the user:

- A terminal emulation interface. On-line program OBJECT/RIS/MENU presents 24x80 screens on your terminal using a remote file. Program OBJECT/RIS/MENU can be started via Cande (the Cande RUN command). This interface is not used during this demo.
- A windows interface. A SURE PC application is installed on your PC, and communicates to the mainframe via a TCP/IP port.
 A 'SURE windows interface' program has to be defined via COMS UTILITY, before SURE can be used on your PC.
- Define the COMS utility attributes for the SURE-Windows interface and enable the COMS programs.
 ?ON UTILITY

The following program must be declared in COMS UTILITY:

A COMS PROGRAM definition for the SURE-windows-interface: program SURE

 You can choose any name as the program name in Coms, but it is easy to remember when the program name in Coms is equal to the usercode where the SURE-windowsinterface is installed. And that is in this case SURE.

■ Bie Edt yww Tools Sesson Options yw P - PROGRAM ACTIVITY Action: CREA CReate MOdify INquin CEarch Elizat Lant	ndow Help re DElete	GO HOme	(Press SPCFY for	COMS r help)
Program Name Task Attributes TITLE	►SURE ►(SURE)0B.	IECT/RIS/API/DCI	S ON DEMORK	
USERCODE	SURE	.1		•
CHARGECODE I Additional Task Attributes Valid Security-Category List Database Name	▶. Can Be Spe ▶ALL ▶NONE	ecified On The P	AT Screen)	8
Input-Queue Memory Size (words) Minimum Capies Maximum Capies	▶1000 ◀ ▶1 ◀ ▶1 ◀	Init Term Que,	Time Limit ▶0 ◀ Time Limit ▶0 ◀ ⊎e Depth	10
Hemote-File Interface (Y/N) Have COMS Perform TXOPEN (Y/N) WATMI Blocking Timeout Installation Data Name	DNA DO A 1 DO DNONE	Memo Disa	bled at COMS BOJ	FN4

- Task attribute TITLE must be equal to the full name of program OBJECT/RIS/API/DCIS.
- Please notice that the program name in the TITLE contains a usercode and a pack, both equal to the usercode and pack of the SURE windows interface on the SURE-installation screen.
- Task attribute USERCODE must be: the installation usercode = SURE

The SURE windows interface must be started via a Coms-enable: <Mixnr Coms>SM ENABLE PROGRAM SURE

The SURE windows interface can only be closed by a Coms-disable: <Mixnr Coms>SM DISABLE PROGRAM SURE

☆ After you enabled the COMS program then at least the following objects must be active in the mix:

Attachmate Accessory Manager - [IDREND]	
Bie Edit View Tools Session Options Window Help	- @ ×
Mix-PriCPU Time7 ACTIVE ENTRIES (ALL) USER-SURE * 5624 50 :00 ISURE) (SURE)OBJECT/RIS/API/FTP ON DEMORK * 5625 50 :00 ISURE) (SURE)OBJECT/RIS/API/FTP ON DEMORK * 5616 50 :00 ISURE) (SURE)OBJECT/RIS/API/TOP ON DEMORK * 5616 50 :00 ISURE) (SURE)OBJECT/RIS/API/DCIS ON DEMORK * 5621 50 :00 ISURE) (SURE)OBJECT/RIS/API/CCIS ON DEMORK * 5620 50 :00 ISURE) (SURE)INTERNAL/PROCESS/CLOSE/TCP/IP * 5629 50 :00 ISURE) (SURE)INTERNAL/PROCESS/TPP/4764	•
MixFrzShrUsr2 FROZEN LIBRARIES USER-SURE	

The mainframe installation of SURE is now complete.

2.1.3 Run the On-line Program (terminal emulation)

The SURE package can be started after the mainframe installation is completed correctly by running the on-line program: RUN RIS/MENU

This program is only started to verify that the installation on the mainframe was successful. Please call ITSforSURE if problems rise at this moment.

The following messages appear on your screen:

- 1. Please wait, loading (SURE)INFDB ON <database pack>
- 2. This program runs for environment DEVELOP.

The first message only appears if the database was not yet active. On-line program OBJECT/RIS/MENU initiates library OBJECT/RESPECT/LIBRARY, and this library keeps the database up until the library is stopped via ODT command <mixnr>THAW. The second message is given each time a program is started.

The terminal emulation on-line program presents the following menu screen:



The first line of the menu screen gives the following information:

- <Spcfy back>
- A specify on this place stops the program.
- SURE release number
- User identification
- This is the release indication of the software. The user who started the program.
- Repository identification
 - The name of the repository, indicated by the usercode of the database.
- RIS/MENU can be terminated as follows:
 - Keep specifying on <Spcfy back> until the program stops.
 - Press the 'home' button and enter 'GO END <xmit>' from the home position to stop _ immediately.

2.2 Installation of SURE on the PC

2.2.1 Copy and install the PC-software

Please follow this procedure to install SURE on a single (standalone) PC, and enable it to communicate with the SURE windows interface on the mainframe.

- * Prepare a PC with the following specifications:
 - Processor : 80486 or better
 - Memory: at least 8 Mb, preferably 16 Mb
 - Hard disk : at least 6Mb free space
 - Software : Windows 7 or newer
 - A TCP/IP connection to your mainframe
- * Start the installation as follows:

-

- Switch to the directory where you unzipped the downloaded zip file
- Double click on program INSTALL.EXE to start the installation procedure.

The 1st installation dialogue: kind of installation:

Respect FrameWork Installer		E I
C Instal new application		The state
		Cancel
C Upgrade exciting application	13	Read Me
 Uninstall existing application 		
C Rental exiting application		
1	2	

Please choose 'Install new application'.

The 2nd installation dialogue: the path: InstallShield - SURE for Windows



The default path is C:\SURE but you can choose any other path you like. We advise to install the client software in a sub-directory of C:\SURE. This sub-directory identifies the reason why this SURE client is installed. In that way it is easy to install multiple SURE clients for various reasons (for example a live installation and a test installation).

In this example the client software is installed in directory C:\SURE\DEMO\.

The 3rd installation dialogue: components:

Please select 'Tutorials' and 'Presentations' to install these components too.

talSkield - SURE for Windows Spinors Select options	This demo installation does not require an options.
Select/decelec/ the following installation options.	
Space Required on C 0.K Space Available on C 129136 K	

The 5th installation dialogue: connections:

Connections.	
Parameters for TC	P/P conections
Please enter the re software	rquired parameters for a TCP/IP connection that will be used by the installed
vidb IP/port	IDPEND/4764

Please enter the IP address of your host followed by the TCP/IP port number in the format "nnn.nnn.nnn/pppp". If you are using a LMHOSTS file then you can enter the name of the host followed by the TCP/IP port number in the format "<hostname>/pppp".

In this example the connection is IDREND/4764.

- IDREND is the hostname in the LMHOST file on my PC.
- 4764 is the port number that is also used during the installation of the mainframe software.

The 6th and last installation dialogue: entry in the programs list.

Select Program Folder		
Please select a program folder.		
Setup will add program icors to the Program name, or select one from the existing folders	Folder listed below. You may t list. Dick Next to continue.	ype a new Tolder
Program Foldese		
SURE for Windows/DEMO		
Existing Folders		
Microsoft Developer Network Microsoft Office Microsoft Visual Studio NET 2003 Promes2		1
Pleannit, Sonio SoundMaX Statup		
Edite is wrand		
	(Back Next)	Cancel

This creates an entry in the program start menu on your PC. The default is 'SURE for Windows' but it is possible to create subdirectories like 'SURE for Windows\R&D' or 'SURE for Windows\P&O' when multiple repositories are available on the mainframe (a P&O repository and an R&D repository).

In this example the program name is SURE for Windows\DEMO.



The installation is now complete; you are ready to work with SURE.

2.2.2 Run SURE

- ✤ To start working with SURE
 - Go to the START-menu of your PC and open
 All Programs → SURE for Windows → DEMO → SURE
 - Log-on with usercode SURE and the correct password.

The log-on screen responds with the current settings for user SURE:

Itemate SUBF				
Pasiword mm	Change			
Accesscode		startsor	it Expose	
Accessicode pvid	Olarge	Ca	nce	
Chargecode		modily SUFIE explorer layo	ut according to role	
IT Save these credentials		C None C Development MCP	in environment	-
Current Environment		C Development PC/UN	1	-
Environment DEVELOP	J J	C Help Desk C Operations	for team	
		C Project leader		2
Host IDREND Park DEMORK		C Support	0100000	
Ennis		C Test	el conveniment	-

For this moment we still have to log on with installation usercode (SURE) because that is at this moment the only known usercode in SURE. One of the first actions that we are going to do is to define other usercodes in SURE.

 Click on button 'Start SURE explorer' to confirm the logon screen and to continue. The SureBrowser appears. Open folders 'Environment' and 'DEVELOP' to obtain the following window:

🍽 SURE for Windows\DEMO - SURE - D 🔚 🗖 🔀
File Edit Tools Reports Options Window Help
Navigation
Configuration Organization Environment Organization OPVELOP Files(MCP) Files(MCP) Files(MCP) Ula Edited Macro's Ula Edited Macro's Ula Select Ouery Unisys MCP: IDREND

SURE shows all available environments as directory levels. Environment DEVELOP is opened, and details of this environment are given on the screen.

Help explains the keyboard and mouse support.

3 Options, Parameters and Securities

At this moment the first part of the installation is done: the software is copied and installed on the mainframe and on the PC, and we ran the software (on the mainframe and on the PC) to do a first check if it works correctly.

If you encountered any problems during this first test, then please contact us.

The second part of the installation is to set options, parameters and securities.

Multiple options and parameters are available where the user can change the behavior of SURE according to his own needs. Most of these options are of less importance for this demo or are predefined by ITSforSURE. Those options are not discussed during this demo.

Some other options have to be defined by the customer as part of the demonstration. This gives you automatically a global overview of the functionality of SURE, and you become familiar with the SURE explorer.

Options, parameters and securities have to be defined via the SURE-explorer. These options and securities are used by the SURE-explorer as well as the mainframe programs (on-line and batch).

3.1 Define an employee-function

It is possible to define employee-functions in SURE. Employee-functions are linked to usercodes. An employee-function has two purposes:

- Authorization of SURE functions, for example: Users with this employee-function are allowed to perform these functions.
- Routing, for example: this task has to be solved by a user with this employee-function.

During the installation some employee-functions are automatically defined.

* The next step is to get familiar with employee functions:

- Open folder 'Organization' \rightarrow Employee-function



- Click on the icon of DEVELOPER: Interpretent of the properties of that employee-function.

G Employee Function DEVELOPER	ł				
Explore Function					
Employee Function DEVELOPER					
Employee Function Security map					
Environment System	Project	Default Norse Global	SURE Tack	Recycle RIS Common	RIS Modulez
		1	10.00-010		
1					
	Apply Dele	ete Line Inzert Line Print	Cicos		

- Click on tab <Security map>

It is possible to define security maps per environment. In this example there is no environment name entered in the 'Environment' column, and in that case the security map is global and applicable for all environments.

- A click on the button in column SURE shows the current settings of SURE authorizations, for employee function DEVELOPER. The screen on the right hand side is an example of this. The bitmap on the button reflects the options 'inside' that button that are enabled.

The entire security-map is the combination of all six buttons on the row. During this demonstration only the buttons <Global>, <SURE> and <Task> are relevant.

- You can modify the security map to your needs. For example: function 'COMPILE' is a valid function for a developer, so you can enable that function.
- Click on button <Apply> do send your modifications to the repository.
- Click on button <Close> to leave the properties screen.



* The next step is to define a new employee function TASK-MANAGER:

- Right-click on the word 'Employee-function' and choose <New> from the menu:

Engelogee Function (TASK MANAGER)	Ingelopee Function Security map Engelopee Function TASK-MANAGE F Imployee function is used as domain	Enployee Function			
Imployee Function (TASK MANAGE P)	Imployee Function (TASX-MANAGE F)	mplayee Function	Security map		
Employee function is used as donain.	Employee function is sared as domain.	Employee Function 17.4	SK-MANAGER	T	
		Employee function is sa	ed as domain 🗖		

- Add employee-function TASK-MANAGER
- Click on button <Apply> to add the employee-function
- Click on and button <Close> to close the dialogue.

3.2 Define a personal usercode with authorizations

☆ During the installation phase, the initialization usercode (SURE) is added in the repository with ALL authorizations. The only reason why this was done was to unlock the system for the first usercode. Other usercodes do not have any authorizations at this moment and can not do any update activities in the system. Using the initialization usercode, it is now possible to define other usercodes with authorizations.

Please read chapter 35 of the manual to obtain detailed information about the authorization mechanism.

The best way to define authorizations is via employee-functions (or security categories): authorization maps are linked to employee-functions, and these employee-functions are linked to usercodes. Consequently the usercode inherits all authorizations that are defined for its employee-functions.

Each individual person that works with SURE must have his own personal usercode. This is necessary for authentication purposes, logging purposes, task-routing purposes, et cetera.

During this demo the Cande work environment is defined by usercode (DEV). This means that all files-in-maintenance are placed on disk under usercode (DEV). A programmer logs on to SURE with his personal usercode, but he accesses the files in Candedirectory (DEV).

Each personal usercode must also be known in the userdatafile.

It is possible to use usercode (SURE) as a personal usercode, but we don't advise this. If multiple persons are going to work with the SURE system, then each person must have his own personal usercode, otherwise the actions of one person may jeopardize actions of another person. A disadvantage of using (SURE) as your personal usercode is that the installation environment of SURE is going to be mixed with your application work environment. Files of two totally different systems will appear in the same Cande directory. It won't give any problems as long as you don't overwrite any of the SURE installation files, but it can be confusing.

* The next step is to define a personal usercode in SURE:

- Log on with the installation usercode (SURE).
- Open folder Organization
- Right click on folder <User> and choose <new> to create a new personal usercode. This
 usercode must be known in the userdata file. The following dialogue is given where
 specific usercode attributes can be entered:

3 User Attributes		
C Han Attiliane		
User Attibules Security map		
UnerName (SMON (Ella)		
Norma Serion Groot EMail Adhesis Destantiveri Initiati 55 Default Environment Default Environment Default Language Environ Default Language Environ Teams Norm Security Administrator	•	
Is verdiers eccount:	Jimathan Pret Game	
User Name Name Email address Department Initials Default environment Printer Default language Employee function Team Name	The usercode (must b The normal name of t Empty: not used durin Empty: not used durin The initials of the pers DEVELOP Empty: not used for t English Empty: not used for t	be known in the user data file) the person (e.g. Simon Groot) ng this demo ng this demo son (e.g. SG) the moment the moment

- Tab sheet 'Security map' shows the authorization bits that are set for this user. Do NOT set any authorization bits for this user, because they must be inherited from employee-functions.
- Click on button <Apply> to add the new usercode.
- Click on button <Close> to leave the screen.

* The next step is to link your usercode to some employee-functions:

- Open folders 'User' and 'Employee-function'
- Refresh the user list as follows:
 - Click on one of the usercodes and press F5
- Refresh the list with employee-functions the same way: Click on an employee-function and press F5.

• SURE f	or Windows\DEMO - SURE - DEVELOP	
File Edit T	ools Reports Options Window Help	
User		
+ + + + + + + + + + + + + + + + + + +	guration nizebion SMON SURE SURE_DEV SURE_DEV_BATCH User Team Employee Function ANALYST DEVELOPER OPERATOR DEVELOPER OPERATOR PROJECT.LEADER SECURITY-ADMINISTR	
	SERUCH-DEVELOPEH SURE-ADMINISTRATOR TASK-MANAGER onment • DEVELOP Customer Files(MCP)	
	Files(PC) LastEdded LifeCycle Macro's My Folder Select	

The SURE browser has now the following layout:

- Drag your personal usercode (SIMON in the example screen) with your mouse and drop it on employee-function DEVELOPER. You are now a developer.
- Drag/drop your personal usercode also to employee-function SECURITY-ADMINISTR. From now on we don't need to log on anymore with usercode (SURE) because we can now maintain usercodes and securities with our personal usercode.
- Link your personal usercode also to employee-functions PROJECT-LEADER, TASK-MANAGER and SURE-ADMINISTRATOR. You now have full authorizations.
- Open the folders <personal usercode> (SIMON in the example) and DEVELOPER:



- User SIMON has employee-functions DEVELOPER, PROJECT-LEADER, SECURITY-ADMINISTR, SURE-ADMINISTRATOR and TASK-MANAGER. Employee function DEVELOPER has user SIMON (and SURE).
- The next step is to check the authorizations of your personal usercode: Your usercode inherits now all (the combination) the securities that are defined for his employee functions.
 - Click on the icon of your usercode:
 - Click on tab <Inherited security>

CONTRACTOR DE L'ANDRE ANTAL CONTRACTOR DE L'ANDRE			
owners None 1 0 100 dr 1 5 5	RE Task Reside RIS Co	mon PIS Modules	
ELOP			

- You can already see via the bitmap on the buttons that all the securities are enabled, but when you are not sure you can click on one of the buttons.
- Click on button <Close> to leave the screen.

* It is now time to log on to SURE with your personal usercode.

- Click on <SURE menu bar> \rightarrow File \rightarrow Log off
- Log on to SURE with your newly defined personal usercode.

If your personal usercode is not equal to the installation usercode (SURE), then that installation usercode is not longer used during this demo. In general the only activities that are done under the installation usercode (SURE) are:

- Compilation of the INFDB dasdl, and other DMUTILITY work for database INFDB.
- Installation of new releases.

3.3 Environments

In this section we are going to define extra environments in the repository, and (optionally) we are going to rename environments.

* Log on to SURE with your personal usercode.

The demo repository contains now only one environment: DEVELOP. A Cande work-location is linked to SURE environment DEVELOP: this is usercode DEV. The SURE evening batch for DEVELOP has to run under usercode DEVBATCH.

SURE can be installed in various ways and has its impact on the work-locations of programmers, on the directory where common and visible copy-files are placed, on the run-time directory where objects are installed, and on compilation and object-transfer (deploy) procedures.

The following picture shows a possible installation of SURE.



- Notice the work locations of programmers (upper left hand corner): each programmer has his own individual usercode, and copy-files are placed in directory `*'.
- Notice the run-time object environment for DEVELOP (lower left hand corner): the objects are placed under directory `*' on the work pack of the programmers.
- Notice the run-time object environment of PRODUCTION: this environment can be on another host. Objects are transferred via library maintenance (tape or BNA).
- Notice the work environment of quick-fixes for test or production: only one usercode directory can be enough for this environment.

Summarized: Each SURE environment contains a complete set of application programs, and must be linked with a Cande environment where the source maintenance must be done (work location), and a directory where the application objects are placed (run-time location).

3.3.1 Verify the definition of environment DEVELOP

The next step is to verify the properties of environment DEVELOP: *



Change the color of this environment to red (via button Status)

Change the default workfile location to: usercode DEV and pack <your pack>.

Environment						
Environment sure batch	size complets will options	history	iped curring	sue tanter		
				10 ·		
 options for RESPECT/SURE/COMPLE A 						
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Ute	separate cardNes per system 🗖					
DS compiler when waiting I	W : SEGMENTS REQUIRED	Ersal to rResp	amilitike for Environm	ash 🗖		
DS complex when w	whing for DESCRIPTION Ne 🖗	Ereal to d	Responsible Its Syst	no E		
	ikip WFL syntax compliations 🖗	Emailto	Responsible for Pro-	ecti I		
Create always compile listings when a \$	SET LIST is in complication of		Email to skryak	pert: J - S		
Par Revolute description	ad consultant after consolitation of					
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	Compile Ketrig UnieCode					
	CP/NK complex and read		- 22	1.00		
	20.874 comple translate table					
SURE evening batch		options to: FIESF	ECT/SURE/TRAN	SPEA		
UseCode DEV	BATCH			Create handler rest	artiobs 🗂	
PackNane [DEN	OPK		Pavlege usercode	where libroaint-copy is	taned	0
Remove backupfies after # days	Start Time]	Don't remove co	spiled objects from 5	URE-balch-env. she	deploy 🗖	

- Change the SURE evening batch location to: usercode DEVBATCH pack <your pack>
 - Click on button <Apply> to change the environment properties.

The locations of SURE environment DEVELOP are now correctly defined:

- The default work-location is (DEV) ON <your pack>.
- The location where the SURE batch runs is (DEVBATCH) on <your pack>.

Note: if you are planning to use this environment as a test environment, we advise you to use the original default workfile location and SURE evening batch location. By doing this the security administrator does not have to manually create these user codes.

3.3.2 Define two new environments: ACCEPTANCE and PRODUCTION

We are going to add two extra environments in SURE:

- Environment ACCEPTANCE with work-location ACC and batch-location ACCBATCH.
- Environment PRODUCTION with work-location PRO and batch-location PROBATCH.

The following picture represents this situation:



- * The next step is to create two extra environments. First ACCEPTANCE:
 - Right-click on environment-name DEVELOP and choose 'New' from the menu.
 - This opens the add-environment dialogue where the new environment is added as a clone of DEVELOP:

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	_					
Environment Menaditoria						
Environment creation parame	eu					
Startime for job containing Fil	CREATE/ENM		1			
Environment abor	e newly created	anviconment -		v 0	opy downwards 🕥	
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Task arriving in this environm	nt are indicated a	SS SOLVED				
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all set of	IN LICEPTO IN IN	Construction of the				
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Use esta AD	ta USERID for al ESSCODE for al	Lutercodes 🗖				
Use ex Use extra AC Send Enail to	ta USERID for al	Lutercodes 🔽				
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Use en Use entra AD Send Ensel to Assponsible for environment Default work file location UserEnder (ACC Development Environment	ESSCODE for a	Packhane DEI	MOPK .	T		

- Enter/change the following fields to define the new environment correctly: Tab sheet 'Environment':
 - Environment
 - Environment BELOW newly created environment
 - Click on radio-button
 - Click on button 'Status' to define a color
 - Default workfile location usercode
- = DEVELOP 'copy upwards' color yellow = ACC

= ACCEPTANCE

- Tab sheet 'SURE batch':
- SURE evening batch usercode

- = ACCBATCH
- Click on button 'Apply' to start the creation of the new environment and click on the OK button of the verification dialogue:

SURE - S	SIMON - DEVELOP 🛛 🗙
?	The new environment will be created as follows:
~	ACCEPTANCE NEW DEVELOP Copy environment DEVELOP upwards as ACCEPTANCE
	Please LOGON to refresh the environment-list in the Sure-explorer
	OK Cancel

- The new environment ACCEPTANCE is now created by a batch process on the mainframe. This may take a few moments.
- The new environment is not yet known in your SURE browser. Therefore you have to log off and log on again.
- Click on Menu bar \rightarrow File \rightarrow Logon.
- Environment ACCEPTANCE appears now in the SURE browser.
- When the create-environment batch is finished, the newly created environment is in a read-only state. This read-only bit must be switched off to make the environment available for the programmers.
- Right-click on environment name 'ACCEPTANCE' and choose 'Properties'.
- Reset the option <Environment is read-only (secured)> on tab-sheet <Environment>.
- Click on button <Apply> to change the environment properties
- Click on button <Close> to leave the screen.

Repeat the last actions to create environment 'PRODUCTION':

- In this case environment ACCEPTANCE must be copied upwards as PRODUCTION.
- Right-click on environment-name 'ACCEPTANCE' and choose 'New' from the menu.:
- Enter/change the following fields to define the new environment correctly _ Tab sheet 'Environment'
 - Environment
 - Environment BELOW newly created environment
 - Click on radio-button
 - Default work file location usercode
 - Click on button 'Status' to define a color
 - Tab sheet 'SURE batch'
 - SURE evening batch usercode

'copy upwards' = PROcolor green

= PRODUCTION

= ACCEPTANCE

- = PROBATCH Click on button 'OK' to start the creation of the new environment and click on the OK button of the verification dialogue.
- Click on Menu bar \rightarrow File \rightarrow Logon to refresh. Environment PRODUCTION appears now in the SURE browser.
- Right-click on environment name 'PRODUCTION' and choose 'Properties'. Reset option <Environment is read-only Secured)>.
- Click on button <Apply> to change the environment properties.
- Click on button <Close> to leave the screen.

All environments that are necessary for the demo are now defined in SURE.

Read chapter 37.2.2 of the SURE manual for detailed information about work environments.

Read chapter 37 to obtain a global overview about environments and security aspects.

The SURE browser appears now as follows:

Configuration Configuration Construction Environment Orgenization Orgenization		
Hie Cycle High Mecro's My Folder High Salect Curry High Curry High Curry		

- Notice the environments DEVELOP, ACCEPTANCE and PRODUCTION.
- Notice the colors.

3.3.3 Rename environments to your own needs

It is possible to rename environments to your own standards.

Rename an existing environment (example)

Rightclick on the environment-name that you want to change, and choose "Rename" from the menu:

SURE for Windows\SG70 - SG70 File Edit Tools Reports Options Window H	(DEVELOP)	
DEVELOP	14-0	
ad Configuration organization as Environment as environment as e PRODUCTION as e ACCEPTANCE		
Files(MCP)	New	
Files(PC) IsstEdited Life Oycle	Copy Clipboard	
는 고 Macro's H A My Folder	Properties	
	Rename	
H - R Unisys MCP: IDREND	Delete	
	Hide	

The following rename screen is given:

💐 Rename DEVE 🔄 🥅 🔀
1 Aufonane
Current Name DEVELOP
NewNate DEVELOPMENT
OK Cancel

- In this example environment DEVELOP is renamed as DEVELOPMENT, but you can use any name you want.
- Click on OK to start the rename-action.
- A verification is required for the rename-action: SURE for Windows\SG70 - SG70 (DEVELOP)



- Click on button OK
- Close and restart the SURE browser via File \rightarrow Logon
- The environment is renamed:



In this demo we will continue with the **old** environment name: DEVELOP

The total set of application programs stored in SURE is usually divided in several subsets. We call such a subset a SYSTEM, and all programs that belong to the same subset are linked to the same system. A program cannot be linked to multiple systems at the same time. The user can decide which programs belong to which system.

Application systems are often subdivided in several projects (or sub-systems). A project cannot be a sub project of multiple systems.

The following picture shows this situation:

Cande work-locations can be defined per application system and per SURE environment. This makes it possible to develop different application systems on different packs.

At this moment the repository contains only system SYS1. It is now time to define application system DEMO.

* The next step is to define system DEMO:

- Open folder Configuration
- Right click on subfolder <System> and choose <New>.
- Enter DEMO as a new system name in the pop-up window and click on <OK>.
- Open now folder <System>

S Locano						
IN DEMO IN INVESTIGATION DEVELOP						
System use in Environment						
pieru 👘						
In the series of System						
ans Standards are active						
Ideate parameters						
Gamert Pielesne						
Larent Release stored in Markod						
la Locatora						
quees additional Used d for the work usercode						
requires Access/Code for the work associate						
UserCode		Dick Family Name		BMA Houfflame	PC Severilarie	
Wok Files (DEV	×	DENOPK				
Recurren)	-	P.P. Market	1	-		
Dispect Location 7		LEMPT	- 8	-		-
Object Location 2	1	-	1	-		
	1000	35	- 177		202 00	1000
	Interest	1 64 1	Phil.			
	1.	State of the state	CEDE	Angle Contraction of the Contrac		

Tab sheet 'System'

Work files pack

Work files usercode = DEV = <your pack>

= DEV

This creates a specific work-location for system DEMO

This creates a specific object-location

for system DEMO

Object files pack = <your pack>

Object files usercode

Tab sheet 'Sure'

- Set option 'Put copy files in work Changed copy-files are now put in the directory' work-location (DEV) ON DEMOPK
- Click on button <Apply> and then on button <Close> to leave the window.

The work-location and object-location of system DEV are now defined for the DEVELOP environment. The next step is to define them for the ACCEPTANCE and PRODUCTION environments.

= ACC

= ACC

Define the properties for system DEMO in ACCEPTANCE:

- Open subfolder <ACCEPTANCE>
- Right-click on system DEMO (in environment ACCEPTANCE) and choose 'Properties'
- Enter/change the following fields to define system DEMO in environment ACCEPTANCE: Tab sheet 'System'

= <your pack>

= <your pack>

- Work files usercode
 - Work files pack
 - Object files usercode
 - Object files pack
- Tab sheet 'Sure'

Set option

'Integrity mechanism is active'

Define the properties for system DEMO in PRODUCTION:

- Open subfolder <PRODUCTION>
- Right-click on system DEMO (in environment PRODUCTION) and choose 'Properties'
- Enter/change the following fields to define system DEMO in environment PRODUCTION: Tab sheet 'System'
 - Work files usercode
- = PRO
- Work files pack Object files usercode
- = <your pack>
- = PRO
- Object files pack = <your pack>

Tab sheet 'Sure'

- Set option 'Integrity mechanism is active'

3.5 Various task options

'Task' is an important entity in SURE. Without a task it is not possible to make modifications to the application software.

A task describes `an error in the current application' or `a request of a new feature'. A number of options need to be defined before it is possible a add a task

Before we can use tasks we must define some task properties.

3.5.1 Priorities

- ★ Open folder Configuration \rightarrow Drop-down-box-value.
- * Right-click on the word 'Task Priorities' and choose 'New' from the menu.
- Add the following priorities: HIGH LOW

3.5.2 Task Types

Please read chapter 38.4 of the SURE manual to obtain a first idea about task types. A task-type identifies the workflow of a task. The workflow of an emergency-fix differs from the workflow of a regular change-request.

Task-types are mandatory. It is not possible to define a task without a task-type.

- ✤ Open folder `Configuration'.
- ✤ Right-click on the word `Task Types' and choose `New' from the menu.

	k Approval Anagement Add Miscelareous	l.
ype ERROR	la la	
Hort (hec)		
Priority	Нан	
evaniment to waik on	tacks of this type DEVELOP	
evitament where quit	k least reads	
Security function		1
Security function Facility of this type must (ie consted as a dependent task of Guid-type [
Security function Tasks of this type must (e created as a dependent task of lask-type	
Security function Tasks of this type must i	e created as a dependent task of Gask-type	
Security function fastics of this type must i Joe this testitype as em fastics of this type we pl	e created as a dependent task of lask-type	
Security function Tests of this type must i Test this test type as em Tests of this type are pl Tests of this type cares	e created as a dependent task of task type e in reporting statistics and rite the deliver space also transfer	

- ★ Add the following task-types:
 - Task Type = ERROR
 - Priority
 - Environment
 - Set option
 - Task Type = FEATURE
 - Priority
 - Environment
 - Task Type = QUICK-FIX
 - Priority
 - Environment
 - QuickFix level
- = HIGH = PRODUCTION

= HIGH

= LOW = DEVELOP

= DEVELOP

' Use as error in reporting statistics'

- = PRODUCTION
- = PRODUCTI

- Set option 'Use as error in reporting statistics'

3.5.3Task Groups

The purposes of task groups are:

- All tasks with the same group get a similar name
- A task inherits attributes from its group, so less fields to enter when defining a new task.

Task groups are optional.

- Click on folder 'Configuration'
- * Right-click on the word 'Task Group' and choose 'New' from the menu.

🕺 Group				_	
Group					
Group DEMO-ERROR	.				
Problem group defaults —					
Project DEMO	_				
Type ERROR	_				
Reference					
Short description					
		I	~ 1		
	UK	Print	Close		

✤ Add the following task-groups:

Task Group = $DEMO-ERROR$	
- Project	= DEMO
- Type	= ERROR
Task Group = DEMO-FEATURE	
- Project	= DEMO
- Type	= FEATURE
Task Group = DEMO-QF	
- Project	= DEMO
- Type	= QUICK-FIX

3.6 File Types

A FILE-TYPE defines a logical name for a type of file. This type is not related to the FILEKIND attribute of files on the Unisys CP/NX. The file-type determines how a file is handled by the SURE software.

A file can only be loaded in SURE if it has a valid file-type.

Please read chapter 34 of the SURE manual to obtain a first idea about file-types.

- Copen folder 'Configuration → FileType'
- ✤ Right-click on 'Files (MCP)' and choose 'New' to define file-types for MCP files:

n Type βOURCE	
in Type SOURCE	
P/NK compiler card input	
2010 - 2010	
en type sincelisation	
Vie Dessilication CP/R4X	T
options at ENITER taxe Other options	
Enter only a tile name	Manual CheckIn Dirabled
No SouceUper/Pack at Enter	Ship Esamine after CheckIn
Add Ship-Integrity option at Enter	Della file: drabled
	Is binary file
	Load information at CheckIn
	Always input for batch compile procedure
Don't remove compled	objects from SURE-batch-env: after deploy.
Object Depkyment	1. 10. The second s
Object location inheritance (Files of the type inherit cobject location 1)	hom their system

* Add the following file-types for MCP files:

- File Type = SOURCE
- Object location inheritance

File Type = INCLUDE

File classificationObject location inheritance

Files of this type inherit <object location 1> from their system

Use as INCLUDE file Files of this type do not have an object location.

- * Right-click on 'Files (PC)' and choose 'New' to define file-types for PC files:
- * Add the following file-types for PC files:
 - File Type = BINARY
 - Set option
 - Set option
 - Set option
 - Object location inheritance
 - File Type = TEXT
 - Object location inheritance

'Skip examine after check-in' Delta files disabled Is binary file Files of this type do not have an object location Files of this type inherit <object location 1> from their system

3.7 File References

All files that are loaded in SURE are scanned for language statements that refer to other files (include-files, libraries, database, datasets, et cetera).

We call this scanning-process 'the examine function' Please refer to chapter 26 of the SURE manual for detailed information about the examine function.

All interrelationships between sources files are stored in SURE. Via the 'Reference folder' it is possible to make a selection of these interrelationships (or program references), and to visualize the selected references via the SURE browser.

- * Open folder 'Configuration'
- Right-click on 'Reference' and choose 'Properties' to select file-references for the SURE browser:
 reference classes shown

Referen	ce Classes shown	,	
Referen	ce Class		
DATABASE DESCRIPTION LIBRARY COPY-FILE	-FILE		
Modify	Insert Line	Delete Line	Print
Close			

In this example, the following references are added: DATABASE, DESCRIPTION-FILE, LIBRARY and COPY-FILE.

3.8 Other repository options

- * For this demo we have to change a global option as well.
 - Right click on folder `Environment \rightarrow Global options'
 - Switch to tab SURE

_

Disable option 'The test object will be removed after saving the source in SURE'

Task / Global sure rec	uily h	intray sure car	npilen Developen	nt (F) Lingu	age 🕴 sure cléanei	1
	Pint	er Destination		3		
	\$U	FIE site library		_		
Stat somen to	r terminal estudi	iton interface (ESF	RS-MENU-SUPE			
	Seve so	- DODLIC (TO)		-		
Secret/mode in contrast (Dects (denaule	= Public toj T		-1		
		destruction all				
Options to RESPECT/SUP	E/SECURE					
Secure pach	5	-				
Exing option						
	-					
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detterer.	CLARK -	Construction of the second	and the second second			
CAN/F then examine in SURF a	SURE BO	tet deet the se	menodel P			
SHITE THE INDOLLET SOME I	Delivery	echanism works in	SLIRE state			
Use file set	ters work, enviro	to bestweet immediat	alk potent P			
			-			
			the second se			

3.9 Local SURE options

Some options can be defined per work-station. This can be done via button 'Options' in the menubar.

The most important options are:

'SURE Options'/'Local Options':

Utility for Compare: the default is WINMERGE.EXE (a shareware product). Utility for File Editing: the default is NOTEPAD.EXE. We made interfaces to several other editors such as 'ED for Windows', MultiEdit, etc. Please read chapter 12.2 of the SURE manual for detailed information about the various editors that we support.

If your site uses another local PC editor, then please contact us.

3.10 Options verification

When all above mentioned options are defined, the SURE browser appears as follows:

The basic configuration of SURE is now done.

4 Task registration

Please read chapters 38.1 through 38.4 to obtain a first idea about tasks.

Each adaptation to software is linked to a task. Therefore a task must be added and made current before a programmer can start working.

4.1 Task Registration via SURE

- ✤ Logon with your personal usercode.
- Click on Edit (in the menu bar)
- * Click on New/Task. The following task definition screen appears:

Identification		SURE 9	acus		TO WALKSON.
Identification		100			
Identification		· Mate	task		3
Project .	DEMOTOD		e C C	Show no task Show all existing mad Show all open tasks	w taska
Type +	FEATURE	Rep	ported by	SIMON	
Picety			Erstered	10-18-2007	Extended Date
Compile Queue Resources		Etforte	Delivery		Sile Specific Da
To handle by 1 start working Not assigned Unercode Function Team	for this task Inform assignment via easy Inform status change via e			Арр	oved by
nformation Description Solution Documentation Reminder	• The first deno task				

This task-function is a small Visual-Basic application (plug-in) that can easily be customized to a sites specific need. For example if a site wants to keep extra task-info in the SURE repository that needs to be used in the SURE query language.

✤ Add a new task:

A task is defined by entering a project and a task-type. The name of the task is determined by SURE

-	Project	= DEMO

- Task-type = FEATURE
- Description = The first demo task

The newly entered task is called DEMO0001.

Notice the status of the newly entered task: ENTERED.

Notice the attribute 'Environment' (under button 'Extended data'): The environment is inherited from the task type.

Read chapter 36.5 through 36.6 of the SURE manual for detailed information about the fields on the task definition screen.

We want to start working on this task. This is only possible if the task is assigned to me. There are several ways to do this:

- 1. Click radio button 'I start working on this task' on the task definition screen. In this case the task becomes known as 'My current work task'.
- 2. Click radio button <Usercode>, <Function>, or <Team> and enter my usercode or one of my employee-functions or one of my team in the corresponding field (all in box <To Handle By>. The task is now assigned to me. It appears in my ToDo list but it is not my current work task.
- 3. The last added task is visible as a folder on the second line in the environment (DEVELOP). Right click on the task and choose option <Current>. In this case the task becomes known as 'My current work task'
- 4. Open folder LifeCycle → Tasks to Assign, and click with the right mouse button on the task that you want to assign. Choose <Assign> from the speed-menu followed by <Current> from the speed menu. In this case the task becomes known as 'My current work task'.
- 5. Open folder LifeCycle \rightarrow Tasks to Assign, and click with the right mouse button on the task that you want to select. Choose <Assign> from the speed-menu. The task is now assigned to me, but it is not 'My current work task'

Tasks that are assigned to me appear in my ToDo list (folder Life Cycle \rightarrow Tasks To Do).

The task that is marked as 'my current work task' is also assigned to me, but it appears also as the first folder in my environment, and in the SURE title bar. And it is as the default task pre-filled in the check-out screen when you start working on files.

The current task is displayed in the title bar of the SURE explorer, and as a folder in the DEVELOP environment:

le Edit Tools Reports Options Window Help	
- 🔣 Configuration	
Se Organization	
D Environment	
+ D PRODUCTION	
+ D O ACCEPTANCE	
- DEVELOP	
The first demo task	
Customer	
Files(MCP)	
Files(PC)	
Heat Edited	
A Macros	
T M Select	
T A UNISYS MCP : IDHEND	

Right-click on task DEMO0001 and choose 'log' from the speed-menu. The following screen appears:

Logiolo				
Date/Time	Who	What	Function	Description
dondesdag 18 oktober 2007 21:3352 dondesdag 18 oktober 2007 21:3352 dondesdag 18 oktober 2007 21:3358 dondesdag 18 oktober 2007 21:33:38 dondesdag 18 oktober 2007 21:33:38	SIMON SIMON SIMON SIMON	Task Task Task Task	Current Assign Modily Task New	to SIMON al DEVELOP with status ENTERED

* Click on button 'Close' and double click on DEMO0001. The following screen appears:

			SURE statue D	MULTE	405401000
The celected task	riemo task	-	Materialk		
Identification Project	DEMONNO		8 C	Show no task Show of existing mar Show all open tasks	ter Yeska
Type	FEATURE:	-	Reported by	SIMON	2
Picety		-	Entered	10-18-2007	Extended Date
Compile Queue		•	Delivery	1	- Anna Massaca
Resources			Ethort estimated		5 te Specific Dat
C Not assigned G Unercode C Function C Tears	SIMDN	Ui Inform accignment via ensal Inform status change wa email	socole		
Information					
Desception Solution Solution Documentatio Reminder	• The first des	no lask			8

- Notice the status of the task: DEVELOP/ASSIGNED (at the top of the screen).
- Notice that info-block 'To Handle By' contains now your usercode. This means that this usercode is the only person who can work on this task. It is also possible to enter an employee function in this field. In that case all users who are linked to that employee function can work on the task.
- Notice that fields 'Project' and 'Type' are grey. It is only possible to modify these fields if the task has status ENTERED or SOLVED.
- Click on button 'Modify'/'Properties' Change 'To Handle By' to: Function DEVELOPER

You are now ready to work on files!

5 Load a directory with files in SURE

The best way to understand the functionality of a software management package like SURE is when your own files are loaded in it.

We now ask you to load some files of your own application system in SURE. You are free to choose the files that you want to load, but for the demonstration it is important the loaded files meet the following conditions:

- 1. A small directory (5 to 10) with sources that must be compiled (= that have an object).
- 2. All copy-files (or include files) that are referenced by those programs.

It is beneficial of the demonstration if a database and/or library is referenced by your programs.

- Please ensure yourself that the loaded files form together a complete sub-system of your applications: all referenced copy-files are loaded in SURE. Please do not load too many files for this demonstration.
- Copy the files that you are going to load to the work environment: usercode DEV on <yourpack>.

The load procedure is explained via an example.

The following two directories with files are placed under work-usercode (DEV):

- DEMO/PROG/= a directory with program files.
- DEMO/COPY/= a directory with include files.
- In the remainder of this paragraph you must substitute the directories named: DEMO/COPY/= by <your directory with include files> DEMO/DPOC/= by <your directory with program files>

DEMO/PROG/= by <your directory with program files>.

- Open folder 'Unisys MCP <hostname>'
- ✤ Open folder 'Sources (DEV) on <pack>:

All directories under usercode (DEV) are now given. You can click on one of the directories to go deeper in the directory-tree. In this example you see two sub-directories DEMO/COPY/= and DEMO/PROG/=.

Directory DEMO/COPY/= is the first directory that is going to be loaded.

* Right-click with the mouse on directory DEMO/COPY and choose 'Load files in Sure':

Usercode	SIMON	-	Seach	
azh	DEM00001 The first d	Search		
- inner	in encodence	Define New Task		
		Refresh Task List	1	

It is not possible to load files in SURE without connecting them to a task. Your current task (in this case DEMO0001) is pre-entered in the task-field, but via the drop-down box you can select another task. It is also possible to define a new task via button 'Define new task', or to connect yourself to another task from your Task-ToDo-list via button 'Search'.

* Click on OK when you are satisfied about the task.

The directory-load dialogue is now presented:

Load directory of files in Sure DEVELOP	E (n 🔀
Cost Usescole (DEV Lost Dectory (DEMO/COPY Lost Pachare (DEMO/COPY LostPachare (DEMOR) Antibule Propert (DEMO Type (NCLOCE Options Lost options L	
OK. Caros	

- Enter the following load-attributes:
 - Project = DEMO
 Type = INCLUDE
 - Load options = Load only new files
 Set option Remove files after load
 - Set option Remove mes after

(via the drop-down-box) (because we are going to load copy-files) (via the drop-down-box)

- * Click on OK to start the batch load process.
- * Double click on 'Status mix: DEV' to control the status of the load process:

5.1

] a	NX Sta	tus Sor Voe	e			
tolp	Task	printity	time FI/ET	history		
						34 COMPLETED ENTRIES USER=DEV
34	5634		22:15	EO3	(DEV)	JOB RISHFL/SURE/LOAD
14	5835		22:15	EOT	(DEV)	*OBJECT/RESPECT/SURE/LOAD ON DEMORN
55	5833		22:15	EOT	(VEG)	*CONTROLCARD
0.0	5830		22:07	EOJ	(DEV)	JCB RISWFL/GENERATE/WFL
65	5829		25:04	ROT	(DEA)	+CONTROLCARD
						49 MESSAGES USER=DEV
	5835		22:15		PK500	(DEV) SURE/LOAD/RESTART/DEV/DENO/COFY/DEMOFE REMOVED ON DISK
	5835		22:15		PE516	(DEV) DENO/COPY/201 REMOVED ON DEMORY
	5835		22:18		FRS16	(DEV) DEMO/COPY/200 REMOVED ON DEMORY

In this example screen the batch load process is just completed.

Open folder 'Files (MCP)' and its sub-folders to check the load result:

In this example you see that two files were loaded: DEMO/COPY/200 and DEMO/COPY/201. Both files are connected to the current task. The file-task connection is demonstrated in two ways: <files> are *linked* to <task>, and <task> is an *actual-task* of <file>.

program-files)

(via the drop-down-box)

- Repeat this actions for the second directory: DEMO/PROG/=
 - Open folder 'Unisys MCP <hostname>'
 - Open folder 'Sources (DEV) on <work pack>:
 - Right-click with the mouse on directory DEMO/PROG and select 'Load files in Sure'.
 - Click on OK when you are satisfied about the task.
 - Enter the following load-attributes on the load-directory dialogue:

-	Project	= DEMO	(via the drop-down-box)
-	Туре	= SOURCE	(because we are going to

- Load options
- = Load only new files
- Set option Remove files after load
- Click on OK to start the batch load process.
- Open folder 'Files (MCP)' and its sub-folders to check to load result:

to load

- Notice that all loaded files are marked with a red icon. This status icon has the same color as environment DEVELOP and it identifies the status of each source.
- If you did not set option 'remove file after load' on the load dialogue, then please remove the two Cande directories from disk because the files are now loaded in SURE:
 - REMOVE SOURCE (DEV)DEMO/COPY/=
 - REMOVE SOURCE (DEV)DEMO/PROG/=

Files that are loaded in SURE are automatically placed into the SURE-compile-queue.

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2 Compile	Status ::	Browse	N.							E	
•	latur										
For MY systems	Queue cane	To Comple	ToBuild	Hoty/	Syntax	Abort	Walling Integrity	Block Integrity	Not Compile	To Transfer	Active
DEVELOP	NORMAL	4	2	y		1	1			14 - 3	
ACCEPTANCE	NORMAL		3 0				=				
PRODUCTION	NORMAL						-				
			82 8	- 2		R 3			1	1 2	
	Retrest	×]	Togg	e All/My	systems		Guese		Multi Compl	•]	
	Carl Ball & Gal	EP/NX 1	Bui	id Suppo	e PE -	1 1	Distribution Support	PC	- Pint		
	a service of the serv	1000000	and the second se	and the second second		_	and the second se		and the second second		

There are 4 files in the 'To Compile Queue' of environment DEVELOP.

6 Build Support & Distribution Support

6.1 Compilation and Object files

Files that are loaded in SURE are automatically placed into the SURE-compile-queue. In this section, the SURE batch job is started. This job compiles programs via SURE, and deploys the object to the correct object-location.

The batch job performs the following functions:

- A. Process the SURE compile queue: all files in the compile-queue are compiled. In case of an include file all referencing programs are compiled.
- B. Copy the compiled objects to the correct object location.
- C. Create delta-files between the changed files and their previous versions.
- D. Examine (scan) changed files for language statements that refer to other files.
- E. Process the SURE find queue.
- F. Process the SURE replace queue.

It may be possible that the programs that you are going to compile refer to one or more databases. In that case, the correct database description files must be made visible for usercode DEVBATCH. Otherwise the compilation process in step A fails.

If you used the example programs DEMO/PROG/= and DEMO/COPY/= then you must copy descriptionfile (SURE)DESCRIPTION/INFDB AS *DESCRIPTION/INFDB (on your pack) and you must change the security of this descriptionfile to PUBLIC IO to make it visible.

The usercode where the SURE batch runs (DEVBATCH) must be a privilege usercode (PU), otherwise the copy process of step B fails.

* Click on 'Tools', and then on 'Compile Interface' to inspect the contents of the compile-queue:

For MY systems	Queue ant	To Longer	To Build	Hoty	Syntax	Abort	Waiing integrity	Block integrity	Not Comple	To Transfer	Active
EVELOP	NO MAL	4		- 3					<u></u> ()	16 13	
CEPTANCE	NORMAL					1			1	1 2	
RODUCTION	NORMAL					1					
	Retest		Togg	e Al/My i	galeni	1	Gueve		Multi Conpl	•]	
	Retrest Start laatch jeb	CPARK	Togg	e All/My : ild Suppo	galena e PC		Gueve Distribution Support	PC	Multi Compl Print	•	

In this example, the compile-queue for environment DEVELOP contains 4 programs.

* Click on button 'To Compile' for environment DEVELOP:

To Compile	🗄 🕄 Bro
70 (Despite File 0 (MO (0 (1/2))) 0 (MO (1/2)) 0 (MO (1/2)) 0 (MO (1/2)) 0 (MO (1/2)) 0 (MO (1/2))	
Delete from Queue	Open
Print	Close

The four files in the SURE compile queue.

* Click on one of the include-file names to name the file current (DEMO/COPY/200 in the example), followed by a click op button 'Open' to check the properties of that file.

74		
and the second		
DEM0/C0P1/200	DEVELOP	
File Object 5	kas Compiled Version State	otaco
2000 C		
Normation Notice: COBOL745YMEOL Note: 1	Constante TO-COMPLE	Version 11
latitutes		
Freed DEMO	Intern DEMO	
and on		
Downer		
iue maintenance		
eperime	Sea	re theorem de
Germanist LIAD		Internet Table

The file belongs to project DEMO and the file-type is INCLUDE.

* Click on tab sheet 'Object' to check to object specifications of this file.

This file does not have any object specifications, and that is correct, because the file is an include file and it can not be compiled.

Click on button 'Close' to return to dialogue 'Compile details to-compile'.
 Click on a program name (not an include file) to make it current (DEMO/PROG/001).
 Click on button 'Open' to check the properties of that file.
 Click on tab sheet 'Object' to check the object specifications:

Ale DEMONPROBATION DEVELOP Fle Object Suse Complet Version Statutes Object location University DEMONPR Disct specification Disct specificat	File DEMO/PROG/001 DEVELOP	L
DEMONPROSAUDI DEVELOP File Object Sue Complet Version Statistics Direct location Unimode DEVECT/DEMONPROS/001 Direct specification Unimode Direct specification Unimode Unimode Direct specification Direct specification Unimode Direct specification Direct specif	A	
The Object Sum Complete Version Statistics Object location Complete Discritication Complete Discritication Object type://fication Complete on Complete Discritication Object type://fication Complete on Complete Complete on Object type://fication Complete on Complete Complete on Complete Complete Complete on Complete complete Complete Complete Complete on Complete complete Complete Complete Complete on complete complete Complete Complete Complete complete complete complete	E DEMO/PROG/001 DEVELOP	
Disect location Unsector DEV Pack DEMOTIK Disect Interference Tame OBJECT/DEMO/PROB/001	File Object Sure Compiled Version Statutics	
Unemoter DEV Parts DEMOTE Depart specification Direct specifica	Direct location	
Part DEMORK Description Description Direct specification Direct specification Direc	Livencor DEV	
	Part DEMORY	
Tame: OBJECT/DEMO/PROG/001	Districtionare	
Oter: specification IPAR complete continued Concert: Type / Our / Doorthy public in Security Outer: Outer: Doptimum Sound Door Attinuates to chard and Att public	Tame OBJECT/DEMO/PROG/001	
DPARCemptor card read	Object specification	
Concerto Type / Our / Ouerfair public in Sectors Concerto Type / Ouerfair public in Sectors Concerto Concer	DUNC complex card equal	
Uning	Emore Type/Dee/Boardin public in	
Destane Subolico Attitute to chest est/or proglet	among Humans	
Detains subclime	Line	
	Approved the speed and ya complete	
Others Alliburat tody Renamed		
	Object with beauting of the week	

The object of this file is (DEV)OBJECT/DEMO/PROG/001 ON DEMOPK. The object-location usercode and pack are inherited from the default object location of system DEMO as a result of option 'Files of this type inherit <object location 1> from their system' of file-type SOURCE.

Click 2 times on button 'Close' to return to dialogue 'Compile Interface'.

✤ Click on button 'Start batch job'

• Gaugae	Statur
Environment, D	EVELOP
Gibber Giber In	STITUE.
Start JOE locatio	on it queue NEQ to NORMAL
Pack	
Amount of cono.	arent compiles 1
Batch Job option	na -
	Comple / Generate 19
Deploy the comp	ed objects to the object location 12
	Croste Della Files P
	Example Sources IV
	Star East tills.
	Stat Renive Litity
Start	Task Queue and Schedule Utility

- Set batch job options
 - 'Generate and Compile' (function A)
 - Transfer (function B)
 - Create delta files (function C)
 - Examine changed files (function D)
- Click on button 'OK' to start the job:

-	TARBADO PARTO.	
distant.	DEVENTCH	
Faiting	DEMORK	
021(000	WFL/SMON	

A standard SURE evening job is available for each environment. The name of this job is WFL/<environment>/SURE, and the job was placed on disk during the installation.

Click on button 'View status batch' to control the status of the batch job:

Chapter 24 gives detailed information about the SURE compile + transfer process (functions A, B). Chapter 18 gives detailed information about delta files (function C). Chapter 26 gives detailed information about the examine process (function D).

An important feature of SURE is the integrity mechanism: SURE controls that all objects in the run-time environment are compiled with the same set of copy-files. If a copy-file changes, then all programs that use that copy-file are recompiled. Read chapter 24.12 through 22.12.5 for detailed information. The SURE batch creates a number of overviews. These backupfiles can be accessed via the SURE browser via folder:

Unisys MCP <hostname> → Batch Reports <batch usercode>

The reports are sorted on creation date:

File Edit Taols Reports Options Window Help	
PRODUCTION	
- DEVELOP	0
🕂 🏥 🛕 DEMO0001 The first demo task	
Customer	
+ Eles(MCP)	
Files(PC)	
The Macros	
A Select	
Sources (DEV) on DEMOPK	
+ Objects (DEV) on DEMOPK	
Batch reports (DEVBATCH) on DEMOPK.	
BATCHOUTPUT/20071018	
BATCHOUTPUT/20071018/22_48_48_MATCH	
BATCHOUTPUT/20071018/22_15_26_IMPACT	
BATCHOUTPUT/20071018/22_48_35_COMPILE	
BATCHOUTPUT/20071018/22_48_47_TRANSFER	
Hatch Status mix : DEVBATCH	
Deintor Outruit	

The amount of days that batch reports are kept on disk can be defined via the environment properties \rightarrow Tab: Sure Batch \rightarrow field: Remove backupfiles after # days.

Open a batch report as follows:

- Right click on the compile overview BATCHREPORT\.....COMPILE
- Choose <Download>
- The batch report is downloaded from the mainframe to you PC and loaded in MS Word.

SURE supports a macro for MS-Word to view batch reports with 132 chars on a line.

6.2 Load object run statistics in SURE

It is possible to load run information from the system/sumlog into SURE. This run information is then for each file available in SURE.

Batch program RESPECT/SURE/LOG reads a system sumlog file, and stores the relevant information about programs runs from the sumlog file in SURE.

The procedure is explained via an example with file DEMO/PROG/002.

Create a small sumlog file that contains log info about several runs of object (SURE_DEV)OBJECT/DEMO/PROG/002:

- * Close the current sumlog file: ODT command TL
- ✤ RUN (SURE_DEV)DEMO/PROG/002 ON <pack> (run it multiple times).
 - You can run the program via Cande but you can also run the program via the SURE explorer as follows: Right click on the source name \rightarrow Miscellaneous \rightarrow Run
- * Close the sumlog file again: ODT command TL

Check which sumlog files are resident: FILES *SUMLOG ON <sumlog pack> The run information of the runs of DEMO/PROG/002 is stored in the last sumlog file in the list.

 Load the sumlog file in SURE as follows: RUN RESPECT/SURE/LOG;FILE LOG = <last sumlog file>

The sumlog information is presented via SURE as follows:

* Right-click on file DEMO/PROG/002 and choose 'Statistics' from the menu:

								8	
aturo.	Usercode	Mart	Log	Hoat	Object Dealed	File Version	Menary.	Egi	IN PB
a 2007 7.56 02	DEV	6049/06050	1251	1111	dondenting 18 oktober 2007 22 48 46	1.1	2.695	DK	15
n 2007 7-55-47	DEV	6046/06047	1251	1111	donderdag 18 oktober 2007 22 48 46	1.1	2.745	0k	18
	sitang - 2007 7.55 00 + 2007 7.55 47	ntere # 2007 7.55 02 DEV # 2007 7.55 47 DEV	ntano, Disecode Miere 1920/7/95/07-09 BEV 2049/05/51 # 2007 7:55:47 DEV 6046/26047	ntang, Dieroode Miew Log # 2007 755 02 DEV 8049/80/50 1251 # 2007 755 47 DEV 6045/06047 1251	ntarg, Disecode Miew Log Host • 2007 7:95 02:00 DEV. 80(49/05/80 1251, 1111 • 2007 7:55 47 DEV 6046/06047 1251 1111	ntang Disecode Minn Log Host Object Desired = 2007 7-95 02 DEV 6045/16050 D29 1111 developing 19 deteler 2007 22:48 46 = 2007 7-95 47 DEV 6045/06047 1251 1111 developing 19 deteler 2007 22:48 46	ntang. Diercode Mierr Log Host Object Ensited File Version # 2007 7 55 47 DEV 6045/06047 1251 1111 devidender 18 oktober 2007 22 48 46 1.1 # 2007 7 55 47 DEV 6046/06047 1251 1111 devidender 18 oktober 2007 22 48 46 1.1	ntang. Districted Mines Log Host Object Ensated File Version Memory. • 2007 7:55:47 DEV 6046/06047 1251 1111 developing 18 oktober 2007 22:48:46 1.1 2:55 • 2007 7:55:47 DEV 6046/06047 1251 1111 developing 18 oktober 2007 22:48:46 1.1 2:745	ntang. Usercode Many Log Host Object Exceled File Vectors Memory Eq. w 2007 7 55 47 DEV E045/05/00 1251 1111 developing 18 cktober 2007 22 48 45 1.1 2.655 Dk w 2007 7 55 47 DEV 6046/06047 1251 1111 developing 18 cktober 2007 22 48 45 1.1 2.745 Dk

The statistics screen shows one line with information per run of the object. Notice that the sumlog number is also stored in this run information (4th column). This makes it easy to find the correct sumlog if you want to know more details about a run of a program.

Program RESPECT/SURE/LOG also produces the following reports:

- Overview of wrong versions of objects (not compiled via SURE).
- Overview of illegal objects (not known in SURE).

Read chapter 29 of the SURE manual for more information about loading sumlogs into SURE.

6.3 Other batch procedures and backup procedures

The following batch procedures are available:

- Compiling and transferring objects (see before).
- Loading object run information into SURE (see before).
- Clean old files from pack (and backup them to tape) (chapter 28 of the manual)
- Backup all sources that are in maintenance by programmers (chapter 27 of the manual)
- Backup production objects (chapter 24.15.2)

The last three procedures are optional.

It is obvious that a correct backup procedure has to be installed for the database itself: At least once a week a total database dump (off-line or on-line), and enough audit file backups to make it possible to rebuild the database from the last or the second last database backup tapes.

7 Program life cycle support

The following actions are done in this section:

- 1. Modify an existing file.
- 2. Transfer all modifications to the PRODUCTION environment
- 3. Add a new file and modify an existing file.

7.1 Modify an existing file

The procedure is explained via example program DEMO/PROG/001.

* Right-click on program DEMO/PROG/001 and choose `check-out' from the menu:

Environment CONTLOP	
Local edling	
Enabled	
I Edt/Open the file after CheckDut	
Provide subserve sectory for Local work life in the entrancing common processing Local source life in the entrancing of the entrancing Local source life in the entrancing of the entrancing of the entrancing Local source life in the entrancing of the entrancing of the entrancing Local source life in the entrancing of the entrancing of the entrancing of the entrancing Local source life in the entrancing of th	Concernent Recency Pre- avant Chi Clavan Chi
Or The summer analysis Lossiwork Re. C. No.RE SERVICE OF SUMMER SUMMERS Lossi work Re. C. No.RE SERVICE OF SUMMERS Lossi work Re. C. No.RE SERVICE OF SUMMERS LOSSING SURE option Re. Los LOSSING The first device test	Compare and Theorem The avail. CT4 (001/001/014)
Or Nor Summer and the Local work life. C. Norm: Distance of Lorenzon and Endowing Local assume life. C. Norm: Distance of Lorenzon and Endowing SURE options SURE options DEMD0001 . The first demo task.	Concervant Frankriker fre openingts
Or the summer energy to Local work life: C notifier the interacting to Local work life: C notifier the interacting to mixed by the interacting to the work of the interacting to the work of the interacting to	Concernent Tresser fre control Cts concernent Retrech Tesk List

- Notice that 'local editing enabled' is set. This option enforces that the file is going to be modified on the PC.
- If local editing is enabled, the file is downloaded from the mainframe to a source directory on the PC. This is only done if the correct version of the file was not yet available in the local source directory. The file is then copied from the local source directory to the local work directory. The local source directory and the local work directory are defined via Menu-bar → Options → SURE options → tab: local options.

The names of the local source file and the local work file are mentioned on the checkout screen: it is the name of the local directory, followed by the name of the source.

Notice the name of the task DEMO0001. The file is connected to this task, which means that the file is modified because of task DEMO0001. If necessary, it is possible to choose another task from the value-list.

- * Click on OK to confirm the 'check-out' options.
- * The file is now copied to the local work directory. Click on OK when the file is resident.
- * Click on OK to start the local editor:

© 001.C74 - Notepad	E 🗖 🔀
Ele Edit Format View Help	
000000" VERSION 1.1; SAVED 20071018 22:23:45 000100 IDENTIFICATION DIVISION. 000200 ENVIRONMENT DIVISION. 000300 DATA DIVISION. 000400 DATA-BASE SECTION. 000500 DB INFDE. 000500 OB INFDE. 000500 OB INFDE. 000500 OB INFDE. 000500 OB INFDE. 000500 OB INFDE. 000500 OB INFDE. 000500 COPY "DEMO/PROG/00I version 1.2". 001500 COPY "DEMO/COPY'200".	1001
WIT	

By default, NOTEPAD is started as local editor. We made seamless interfaces to various other editors such as 'ED for Windows', 'MultiEdit', Programmers Workbench, etc. Please refer to chapter 12 of the SURE manual for detailed information about PC editing and local editors. You can choose another local editor via Menu-bar \rightarrow Options \rightarrow SURE options \rightarrow tab: local options.

- * Make some small modifications in the file (add or modify a display, et cetera).
- * Save the file and leave the editor.
- ★ Right-click on DEMO/PROG/001 and choose 'Compile → Local' from the menu:

Iphans Transfer Genesate Module For Save presented source in SURE For Deveload generated source to Work directory Councils Councils	Compiled C:\SURE\DEMO\DEVEL File A Series File DEMD/PROG/001 Local File C.\SURE\DEMO\DEVELOP\w0RK\DEMO\PROG\001.C7 Statu: Compile resolan compilered Message Compile resolan compiler options Show initial form with compile options
Complex With TAD's region Complex with TAD's region I find Hide this form (whereas we there settings) DK Cancel	Compiler Statistics Processor Tane D Restly Dunue D Elapsed Tane D Current Line D
	Current Error Count: 0

Click on OK to start the compilation.

The local work file is compared with the local source file and the differences are uploaded to the mainframe and merged with the original file on the mainframe. The merge-result-file is compiled on the mainframe. Syntax errors are downloaded to the PC, and can be merged into your local work file.

* Right-click on DEMO/PROG/001 and choose 'check-in' to save the modified file in SURE.

Concurrent Ne maintenance Current Ne maintenance Cu	
Environment Internall Durent fails of Holdenn Concurrent fails notified on out send difference Net Conference On OF Local work file Conference On OF Send of Frence Of OF Local source file Conference On OF Send	
Local eding	
Local editing	
Enabled Send complete workfile (do not send difference file) Local work file: Codding: Construction workfile (do not send difference file) Local source file: Codding: Construction and Construction and Provide and Prov	
Concurrent Ne maintenance Current Ne version	
Local wak file C - 30% CONTRACTOR WORK CONCENTRATION CON Local wak file C - 30% CONTRACTOR WORK CONCENTRATION CON Local source file C - 30% CONTRACTOR CONTRACTOR CONCENTRATION Concurrent file maintenance Current file version 11	
Local work file: Crashing on the on the constraint on the constrai	
Local work Rel Cost PERCONCEPTION WORK CONCEPTION AND CONCEPTION A	
Local source file 1: dollar dated of values and of a dollar date of second to the second of the seco	
Concurrent like numbervance Current like version 11	
Concurrent Ne maintenance Current Ne version 11 Dianges relative to version 11	
Current Neversion 11 View 0714155 changes View MY changes	
Danges relative to version 11	
and a second s	
Planare many Anti-many and Al Federald	
Other users assigned	thing for
- CMS703914500	thing for
	thing the

- Notice button <View my changes>. This function can be used to compare the previous version of the source and the new version.

Function check-in works as follows: The local work file is compared to the local source file and the differences are uploaded to the mainframe and merged with the mainframe original-file. The result file is saved in the repository. The local work file is moved to the local source directory, and becomes local source file.

* Click on the status icon of DEMO/PROG/001 to show the file-log:

Date/Tinie	Environment	Who	Task	What	Function	Desception
wijdag 19 oktober 2007 B. wijdag 19 oktober 2007 B. Bondentlag 18 oktober 20. dondertlag 18 oktober 20. dondertlag 18 oktober 20. dondertlag 18 oktober 20. dondertlag 18 oktober 20.	DEVELOP DEVELOP DEVELOP DEVELOP DEVELOP DEVELOP	SIMON DEVBATCH DEVBATCH DEVBATCH DEVBATCH DEVBATCH DEV	DEM00301 DEM00001	SfW SfW Batch CompResult Comple Batch-Load	Checkin Check-out Deploy OK Integrity Integrity Load	Version1.2 SIMDN 11 NORMAL 11 NORMAL Resourc DEMO0001 Resourc DEMO0001 DEMO0001 DEM0/COPY/200 vestion 1.1

- A history of actions on this file is logged in SURE.
- Another method to view the log is: Right click on source name \rightarrow Log
- Right-click in DEMO/PROG/001 and choose 'Miscellaneous \rightarrow Run' to run the program:

C Cano	r Attributes						
Job	Task priority	time FT/ET	history	1			
					39 COMPLET	TED ENTRIES	S USER-DEV
60.98	8098	08:40	EOJ	(DEV)	JOB RISHFI		
6098	6099	08:40	EOT	(DEV)	(DEV) OBJEC	T/DEHO/PR	DG/001 ON DEMOPH
5665	6097	08140	EOT	(DEV)	*CONTROLC	ARID-	
6059	6089	08:40	EOJ	(DEV)	JOB WFL/DB	CVELOP/PC-:	58.5.5.I.OH
6089	6096	08:40	EOT	(DEV)	*OBJECT/R	13/PUTLINE	ON DEMORY
					30 HESSAGE	S USER-DE	/
	6099	08:40		DISPLE	AY:DEMO/COL	PY/200 ver:	sion 1.2.
	6099	08140		DISPL	AY : DENO/ PR:	05/001 ver:	sion 1.2 test.
	6030	08;40		FK516	(DEV) WFL/S	SINCW REFLA	VCED ON DENOER
6		Re	hants Co	mont.	Part	Chura	

In this example screen the objects just completed.

7.2 Transfer modifications to the next environment

All adaptations are linked to a task: the current task of the programmer who made the adaptation. When the programmer has finished his activities for the task, then that task can be transferred to the next environment. All sources that were adapted because of the task are then transferred too.

Up until now, we always worked for the same task: DEMO0001. All loaded files are linked to this task, and the program that was modified is obviously also linked to this task.

★ Open folder `LifeCycle \rightarrow Tasks To Do':

SURE for Windows\DEMO - SIMON - DEVELOP - DEMO0001	
File Edit Tools Reports Options Window Help	
OEVELOP O	ć
IB LestEdRed In Les Cycle Tesks to Assign Tesks Busy Tesks Ready Tesks Ready Tesks Ready	
Tasks QuickFixed (for me) Tasks To Do Let a CeM00001 The first demo task Linksof DEM0/COPY/200 DEM0/COPY/201	
EMO/PRCG/001 DEMO/PRCG/001 EMO/PRCG/002 Files To Assign Files Requested Files Assigned	

* Right-click on your current task DEMO0001 and choose 'Transfer' from the menu.

A transfer-dialogue is presented where the possible destination environments are given, and where all files are listed that are modified because of the task.

* Click on the line with destination environment PRODUCTION, because the task has to be transferred to that environment:

Environment	DEMOID01 DEVELOP	Reporter Solved B	By SIMON DEV				
Status	DEVELOP		30) 				
The flut dera	a tauk.						
Target Erwiron	ment Bio	cked Overlap	Fatal Warring				
DEVELOP	- 110 - 12 (200) 93	100000000000	tue Can not t	ansfer to the sal	ie environne	nt	
PRODUCTION	lei -						
Ta	aricles	Queue	Block Dir	Com	ik inpact	ĺ	
Te	arche	Queue	Block 1	Cone	ile impact	1	
To Ked Ecvitorment	ande Charged By	Queue	Block	Core	ik Inpact	1	
To ked Environment DEVELOP	andes Changed By DEV	Queue	Block	Com	ik inpact	1	
Te ked DEVELOP DEVELOP DEVELOP DEVELOP	Changed By DEV DEV SIMON	Queue Entity File File	Block Demo	Com Link	ile Impact	1	
To Red Environment DEVELOP DEVELOP DEVELOP DEVELOP	Changed By DEV DEV SIMON DEV	Queue Entity File File File File	Block 24 Bern DEM0/C0PY/200 DEM0/PR06/00 DEM0/PR06/002	a Cons	ile Impact]	
Te Environment DEVELOP DEVELOP DEVELOP DEVELOP	Changet By DEV DEV SMON DEV	Queue Entry File File File File	Block 200 DEMG/CDP//200 DEMG/CDP//201 DEMG/PROG/001 DEMG/PROS/002	a Cons	ile impact]	
Ta Ked Environment DEVELOP DEVELOP DEVELOP DEVELOP	anite Changet By DEV DEV SIMON DEV	Queue Entry File File File	Block. 2014 DEM0/COPY/200 DEM0/COPY/201 DEM0/PR05/002 DEM0/PR05/002	Cong	ik inpact		

★ Click on the button 'Transfer' to transfer the task from DEVELOP via ACCEPTANCE to PRODUCTION.

The status of the task is now changed to SOLVED. The icon just before the taskname represents this status: **3 DEMO0001**. The small green curling sign is used in Holland at kindergarten when you did a good job ;-).

- Notice the color of the status-icon of the DEMO/= sources. The color is changed to green (the color of environment PRODUCTION), which means that the version of the source in environment DEVELOP is equal to the version in environment PRODUCTION.
- Right-click on task DEMO0001 and choose 'Properties'. The status of the task is now SOLVED.

* Right-click on file DEMO/PROG/001 and choose 'Status':

SZACH					
Environment	Queue mame	Vetilian	Compiled	Compile status	Transferred
EVELOP	NORMAL	1.2	donderdag 18 oktober 20.	TO-COMPILE	donderdag 18 oktober 20.
RODUCTION	NORMAL	1.2		TO-COMPILE	
CEPTANCE ODUCTION	NORMAL	1.2 1.2		TO-COMPILE TO-COMPILE	

FileVersion 1.2 is now active in all environments.

Read chapters 38.8.1 to 38.8.12 for detailed information about transferring a task.

7.3 Add a new file and modify an existing file

The next step of the demonstration is to add a new file and to modify an existing file. These actions are only possible if you have a task to work on. In the previous paragraph the current work task was transferred to environment PRODUCTION, and got status SOLVED. Therefore, we first have to add a new task, and define it as our current work task.

Enter a new task and define that task as 'my current work task' (see the procedure in chapter 4).

The new task is called DEMO0002.

* Modify existing file DEMO/PROG/001 following the procedure as described in paragraph 7.1

Notice that DEMO/PROG/001 is linked to task DEMO0002.

* Right-click on DEMO/PROG/001 and choose 'Status' from the menu:

Envisonment.	Queue meme	Venian	Compiled	Compile status	Transferred
JEVELOP	NORMAL	21	donderdag 18 oktober 20	TO COMPILE de	nderdag 10 oktober 20.
RODUCTION	NORMAL	1.2		TO-COMPILE TO-COMPILE	
SPOCHON .	NUMPE	0.4		TOCOMPTLE	

- The FileVersion of the program is now 2.1 in DEVELOP and 1.2 in ACCEPTANCE and PRODUCTION.
- ★ Click on 'Menu bar \rightarrow Edit \rightarrow New \rightarrow File \rightarrow MCP environment' to add a new file:

isescode	SIMON	• Seach
uh.	DEM00002 : Second	demo task 💌 Search
	Fir myndianty i	Define New Task
		Rehech Task List

Click on 'OK' to confirm the current task.

Dialogue 'Add File' is now activated:

File (DEMO/PROG/003		
UnerCode: SIMON Queck mar F Fakinet: PLIGOLSYMBOL	Taskfilaten DEM00202	
Altibules Polant DEMO Type SOURCE Function Author Domain	9 9 9 9 9	
Local editing Enabled 17		

In this case we create an Algol program:

- ★ Enter the following file attributes:
 - File Name
 - FileKind
 - Project
 - Type
 - Set option

= DEMO/PROG/003 = ALGOLSYMBOL = DEMO = SOURCE 'Local editing enabled'

- * Click on button 'OK' to add the new file name in SURE.
- ✤ Reply question 'Start Editor' with YES.

The editor is now started as follows:

003.ALG - Notepad			
Eile Edit Format View Help			
00000000% VERSION 1.1; SAVED			
	-		
80 C	3.1		

* Write a little program and save leave the editor when you are satisfied.

003.ALG - Notepad	
Bie Edit Format View Help	
0000000% VERSION 1.1; SAVED BEGIN DISPLAY("DEM0/PROG/003"); END.	10
80	3.4

* Right-click on files DEMO/PROG/3 and choose 'Check-In' to save the file in SURE.

Both files are now connected to the same task. The modifications are transferred to production when the task is transferred to that environment.

7.4 Inquire and browse functions

Log-on to SURE with usercode

* Open folder 'Files (CP/NX)' and then folder 'DEMO':

- Click on Menu bar \rightarrow Window \rightarrow New, to open a right pane.

✤ Drag/drop directory `DEMO/PROG' to the right pane:

Notice the columns 'version', 'lines', 'source-usercode' and 'changed'. The information in these columns is retrieved from the SURE repository on the mainframe. It is possible to change the columns to your own needs via 'Menu bar \rightarrow Options \rightarrow Attributes \rightarrow Files'. A screen appears where you can choose the information that you want to see in the columns.

It is possible to sort the browse-list per column.

Click on the + symbol of file DEMO/PROG/001 and open all its sub-directories:

The file was modified in the past because of task DEMO0001 (sub-directory task/history). Tasks that were linked to the file for maintenance purposes are automatically loaded in this history when they get status solved.

The file references one copy-file and two datasets.

A click on the + symbol of copy-file DEMO/COPY/200 gives all programs referencing this copy-file.

■ Right-click on DEMO/PROG/001 and choose 'Properties' from the menu:

Ale MOVERIDG (001)	neve; ne	
e Object Scar	Compiled Version Statistics	
rantidei		
COBOL745YMBOL	Compiliation TO COMPILE Version 21	
bullet		
IN DEMO	Berten: DEMD	
IN SOURCE		
tan:		
maintenance		
antitud	Souce Descute	
SIMON	Silver Pack	
UP SIMON	Scharge Hant	

- * Click on button 'Info' and choose 'List' to see the contents of the file.
- * Click on button 'Close' to return to the SureBrowser.

8 Support functions

8.1 Cross reference and data dictionary functions

Each time a new version of a source is loaded in SURE, the source is cross examined for used datasets, sets, databases, libraries, input or output files, external procedures, et cetera. All found issues are linked to the source. The examine function is normally done during the evening batch, but on-line command EXAMINE is available for direct results.

★ Drag/drop file DEMO/COPY/001 to a right window and open the file-folder:

Configuration	- 0	DEMO/COPY/200 in DE	VELOP	
Cogenization Environment environm		I DEMO/PROG/001 DEMO/PROG/002 Tast	COPY-FILE COPY-FILE	
E LestEdited		DEMO/PROG/002 in DE References	VELOP	
Hacro's Harrow MyFolder Harrow Select	日間間の	INFDB DINFO DMSG © DEM0/COPY/200	DATABASE DATASET DATASET COPY-FILE	

Copy file DEMO/COPY/200 is in use by two programs. Program DEMO/PROG/002 references two copy-files.

It is not only possible to inquire the attributes of a file; it is also possible to select groups of files using their attributes. A special QUERY facility is available where groups of files can be selected.

- * Double click on 'Query' to enter the query function.
- ✤ Click on <u>button 'Advanced'</u>

General			0K
Object	File		Cancel
Environment	(CONTROL OF CONTROL OF		(Luon)
Маско			Advanced of
Widcard	-	_	Hoyancoult
Ginit	100		
Time interval	[19_+] [October _+] [20	07 • T	Anyo 🔹
Advanced Ex	geesiisn		
COMPLE-S	TATUS/TO-COMPILE	1	Add Selection
			IR AND
			C OR

Example 1: Select all files that are placed in the SURE evening compile queue: Enter in 'Advanced expression' : COMPILE-STATUS(TO-COMPILE)

Example 2: Select all files that are maintained by usercode <your usercode>: Enter in 'Select Criteria' : MAINTAINED(<your usercode>) Example 3: Select all files that use copy-file DEMO/COPY/200: Enter in 'Select Criteria' : COPY-FILE(DEMO/COPY/200).

Read chapters 14 and 26 for detailed information about the select function.

8.2 Delta files

All adaptations that are made to sources are kept in the repository. After an adaptation to a source SURE makes a comparison between the previous FileVersion that was active in an environment, and the newly saved FileVersion. The result of such a comparison is called a DELTA file, and these delta files are stored in the repository.

It is possible to browse through delta files, or to roll a file back to an old version using these delta files.

• Open folder DEMO/PROG/001 and then 'Delta-files':

Double click on a line with a delta-file timestamp to show the contents of that delta-file.

It is also possible to compare two versions of the source:

- Right-click on the first timestamp and choose 'Compare \rightarrow ...with latest version':

WinMerge - [File Comparison]	
Eile Edit View Merge Iools Bugins Window Help	- 4
C:Documents and Settings/Sections/Temp/Dillo C:Documents and Settings/Sections/Temp/Dillo Doctool LEMITHICATION DIVISION. Doctool DATA DIVISION. Doctool DATA DIVISION. Doctool DATA SASE SECTION. Doctool DATA SECTION. Doctool DI DMSS. Doctool PROCEDURE DIVISION. Doctool DI DMSS. DOCtool DI DMSS. DOCTOO PROCEDURE DIVISION. DOCTOO PROCEDURE DIVISION. DOCTOO FINISTICS. DOCTOO TO DESTAT "NEMO/PROS/DOI Version 1.2 TO DOCTOO STOP REM.	<pre></pre>
4 June 11 Colir 1/52 Chr: 1/52	Image: DDS Ln: 11 Cel: 1/53 DO
OO1000 DISPLAY "DEMO/PROG/D01 version 1.2 test" OO1000 DISPLAY "DEMO/PROG/001 version 2.1 test2	
leady	Difference 1 of 1 NUM

The two versions are loaded in a shareware tool WinMerge, and the differences are marked.

It is possible to compare all old FileVersions.

Refer to chapter 18 of the SURE manual for detailed information about delta files.

8.3 Find and replace utilities

The FIND and REPLACE utilities in SURE can be used to find/replace one or more targets in a group of sources.

The FIND utility is explained via an example. The procedure of the REPLACE utility is similar to the procedure of the FIND utility.

Suppose you want to find the words 'SECTION' and 'COPY' in COBOL programs.

- * Click on 'menu-bar \rightarrow Tools \rightarrow Find' to enter the find-utility.
 - Click on button 'Query'
 - enter 'DEMO/=' in the Wildcard field
 - Click on button <Advanced> to enable the lower part of the query-screen.
 - Click on <OK>: the query parameters are copied to the find-screen.
 - Enter 'SECTION' in the find-target-entry-field (red circle) and click on button 'Add to table'
 - Enter 'COPY' in the find-target-entry-field and click on button 'Add to table':

ind				1
Condition Identifier	SMON	•	Table Identia:	
Object	Fie		Environment DEVELOP	
Selection Wildcard Enteria	DEMO/4	<u>e</u>	Select files via a query	1
Link Taxatiable				
Table	Find Targets section(9)		-	Delete from table
Find	l.	T Mat	ch whole word only	
9	T Natch care	IT See	n connerti loo	🗆 Scanlinenumbers
Result previo Number of for	us lind and tiles at: 2007101818	52	Sheet Sound State	the bound
	Stat process investalisity	C Exte	nd existing queue	

Wildcard `DEMO/=' means that all files starting with that prefix are placed in the findqueue. The find-table consists of the find-targets 'COPY' and 'SECTION'. All files in the find-queue are scanned for those targets.

* Click on OK to start the find utility on the mainframe.

The sources are scanned on the mainframe. After a short while you get a notification that the find-request is completed:

Message at : 19/10/2007 09:53:39	
Find done for SIMON. 5 Files water scanned. Target was found in 4 Nex Listing, IDEV/SUREFINDOUTPUT/SIMON ON DEMORY. Online result function 3 octor Trind in Sure' button Show Found Report'	
OK.	

* Open the FIND dialogue again and click now on button 'Show Found Report' to see the find-results:

Chapter 20 of the SURE manual gives detailed information about find and replace.

9 Epilogue

This concludes the SURE Quick Start Demonstration. We thank you very much for your time and attention and, above all, your interest in the SURE 'change & control' system.

We hope that these examples have given you a basic understanding of SURE. Many other features of SURE (which are not mentioned in this short demonstration), are available to support the developers and change-control staff in their daily jobs.

For detail information concerning SURE, consult the SURE reference manual.

If you have any additional questions about SURE, please do not hesitate to contact us.

Once again, thank you and good luck with SURE.

To execute the Quick Start Demonstration again, simply reload the SURE files from the demonstration tape to your system as described in chapter 2.