SURE

- Release Notes
- Release Letter

Release 100.4

November 2021	**ITSforSURE** **IT Services & Solutions for SURE** www.itsforsure.nl

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1 Notes for the SURE 100.4 release of July 2023

This document describes the major changes accomplished in all 100.x releases of the SURE software. The previous release was 90.6 (November 2019).

1.1 Introduction

Chapter 4 gives the complete overview of all changes that we made in release 100. Tasks that are only applicable for the SURE backend on Windows are marked as such. All other tasks are applicable for both backends or for the SUREforWindows GUI.

Details about the installation and use of SURE backend on Windows can be found in document
'SURE backend on Windows – reference guide'.

1.2 Migration

Overview of previous releases:

Release	First Release date	Migration	Data conversion	Database reorganization
80	July 5, 2012	70.x → 80.3	Yes	No
90	November 30, 2019	80.x → 90.6	Yes	No
100	April 19, 2021	90.x → 100.4	No	No

Currently the software is compiled with the MCP-591 compilers and the MCP-601 compilers. You may encounter problems if you are running on a MCP level older than 591.

Each new release provides new features in the software. It is our intention to implement these new features seamless with the existing features and procedures. However, in some cases it is necessary to perform a database-reorganization and/or a data conversion.

- The last database reorganization was with release 50.0 in December 2001.
- The last previous repository-data-conversion was with release 90.6 in November 2019.

Programs of two successive releases are NOT (fully) compatible if a reorganization or conversion is necessary to migrate from one release to the other.

Release 100.x contains no data conversions, which means that you only have to install the new software to upgrade to release 100. It is also possible to run the SURE-GUIs of release 90 and release 100 simultaneously (but under different usercodes), so that a dedicated person can check the new functionality before you upgrade the SURE-GUIs of the entire development team.

In some cases, it can be inconvenient for a site to install a new release, and then the site may decide to skip a release and to wait for a next release.
It is obvious that the required data-conversions and database reorganizations cannot be skipped. These conversions and reorganizations will automatically be executed in the correct order when a new software release is installed.

The following table shows how to migrate from one release to another:

From	To	How
80.x	90.x	Run the next 4 programs: RUN RESPECT/REPOSITORY/80 ("SET-REPOSITORY-LEVEL 80.3"); - Perform the final data conversions that belong to release 80 RUN RESPECT/REPOSITORY ("SET-REPOSITORY-LEVEL 90.6");

		- Perform the data conversions that belong to release 90 - Set the repository level to 90.6 The upgrade from release 80.x to 90.6 may take quite some time (up to 10 hours), depending on the content of your repository
90.x	100.x	RUN RESPECT/REPOSITORY ("SET-REPOSITORY-LEVEL 100.4"); - Set the repository level to 100.4 RUN RESPECT/REPOSITORY ("LOAD-MESSAGES E"); - Load new and changed error messages RUN RESPECT/REPOSITORY ("LOAD-FORMATS E"); - Load new and changed screens (used by OBJECT/RIS/MENU) Code Review results (approved/denied/remarks) are converted

The standard installation procedure via RESPECT/SETUP (with program RIS/INSTALL and job WFL/RIS/INSTALL) performs the correct data conversions.

1.3 Installing the mainframe software

Before you start with the installation, we advise you to:
- Read the list with completed tasks.
- Contact ITSforSURE, to make sure that we are available for support.

1.3.1 Install new objects and upgrade/create a repository

This procedure performs the following actions:
- Copy the objects from the container file and install them in the correct object-location
- Do the necessary data conversions in the repository
- Load the new screens and messages in the repository (these are used by the mainframe software)

Read document “Installation of SURE.doc”. This document gives detailed information about the installation procedure.

Log on to Cande with a usercode that is equal to the usercode of the repository that you want to create or upgrade (So, if you want to create/upgrade a repository under usercode XYZ then log on to Cande with usercode XYZ).

The MCP software is delivered via a wrapped and zipped container file:
- The name of the container file contains the MCP version and the SURE version:
    - Container file SURE100MCP601 contains the SURE objects of release 100 that run on the MCP. The objects are compiled with the MCP-60.1 compilers with a DMS-60.1 version of the INFDB-descriptionfile.

- Choose the correct containerfile based on your current MCP level.
    - If your current MCP level is 58.1 or 59.1 then use container file SURE100MCP591
    - If your current MCP level is 60.1 or 61.1 then use container file SURE100MCP601

- The container file must be downloaded from the Internet.
- File transfer the container file to the mainframe with binary FTP
- Unwrap the container file with restriction = false. The files are placed on disk under usercode INFRA.

Start the installation as follows:
- DO (INFRA)RESPECT/SETUP ON <install-pack>(“<install-pack>(PACK)”)

The installation procedure is well described in the installation document.

RESPECT/SETUP initiates the installation program where the following questions have to be answered:
- Do you want to install a new repository or upgrade an existing repository?
- What objects do you want to install: the RESPECT software, the SURE Explorer interface or both?
- Where do you want to install the objects?
- What are the database family, the dmsupport family and the auditfile family?
- What is your current DMSII release level?
- What is the repository environment?

If you currently use release 80: read paragraph Task-0272-SURE in the notes of release 90 for the detailed steps how to upgrade your repository from 80.x to release 90.6.

1.4 Compatibility

Refer to the list of frequently asked question on our website www.itsforsure.nl for the last remarks about compatibility.

1.4.1 Database compatibility

The Download Website contains two wrapped container files with SURE mainframe software.
The only difference between these three container files is that the software is compiled with different versions of the ALGOL compiler and different versions of the INFDB description file.
The layout of database INFDB is not changed since December 2001. The only different between the description file versions is that they are compiled with different versions of the DASDL compiler.

Container file	Compilers	DESCRIPTION/INFDB
SURE100MCP591	MCP 591 DMALGOL compilers	Created with DASDL compiler of MCP 591
SURE100MCP601	MCP 601 DMALGOL compilers	Created with DASDL compiler of MCP 601

We upgrade the original INFDB description file for each MCP release and keep the upgraded description file as RELEASE/DESCRIPTION/INFDB/INFRA/DMSxx
This sequence of original description files is also added to the release container file:

```
LFILE (INFRA)RELEASE/DESCRIPTION: RELEASEID
#RUNNING 6936
#?
ON IDRD
(INFRA): DIRECTORY
. RELEASE: DIRECTORY
. . DESCRIPTION: DIRECTORY
. . . INFDB: DIRECTORY
. . . . INFRA: DIRECTORY
. . . . . DMS58 : DASDLDATA RELEASEID="INFDB_2_DMS581"
. . . . . DMS59 : DASDLDATA RELEASEID="INFDB_2_DMS591"
. . . . . DMS60 : DASDLDATA RELEASEID="INFDB_2_DMS601"
```

The layout of the INFDB is not changed, so there is no database reorganization required. That means that an object which is compiled against the MCP-59 version of the descriptionfile, still runs when the database is upgraded to MCP-60. Therefore, it is not immediately necessary to recompile all objects when a customer upgrades his INFDB. On the other hand: Unisys does not support very old MCP-versions. That is why we change the description file for our compilations about every two-year: often enough to avoid Unisys de-implementation warnings, but not too often, so that our software stays a long time compatible with the INFDB's of the customers.

The MCP version of the INFDB description file that we use for our compilations is always a bit older than the MCP version of our compilers, because the compiled SURE software is delivered to many customers, each with their own MCP and DMS versions.

Notice that the container file SURE100MCP601 contains SURE software that is compiled with a DMS-60 version of the descriptionfile. To run this software it is required that your INFDB is upgraded to MCP level 60.1 or 61.1.

The delivered SURE software may fail with DMS-VERSIONERROR when you run it. In that case, it is necessary to do a 'dummy' database upgrade of your INFDB to make your database available for our newly compiled software. Refer to the SURE manual chapter 9.2.3 '(installation) SURE objects and database compatibility' for a detailed explanation why you get the version error and how to fix this.

1.4.2 Compatibility with MCP releases

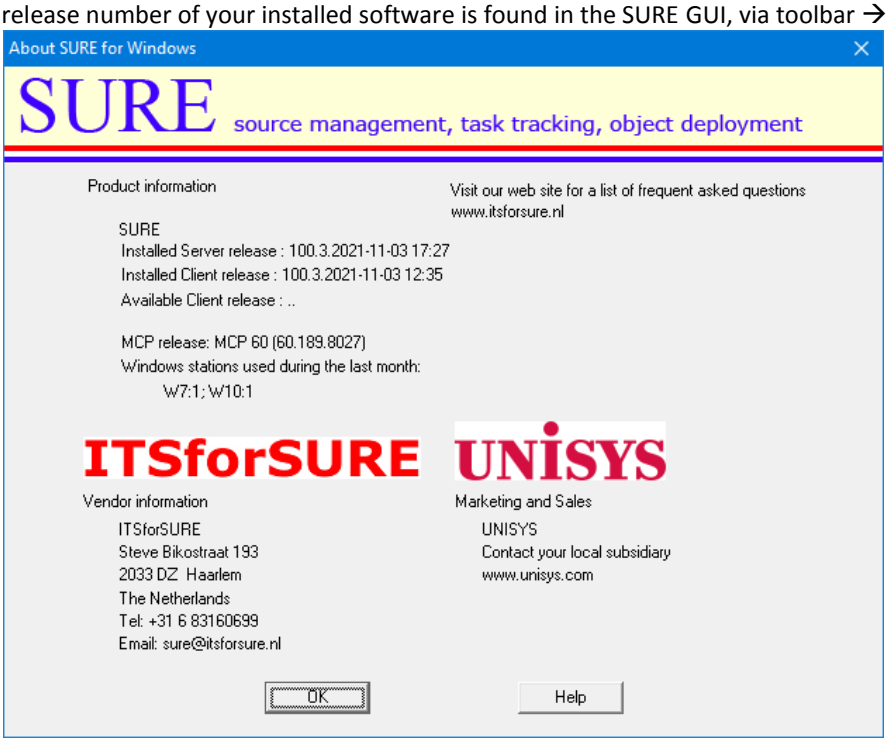
No compatibility issues

1.4.3 Compatibility with previous SURE releases

The software consists of the following parts:

1. The SURE client software
2. The SURE server on the mainframe
3. Other SURE mainframe software (libraries and batch programs)

The release number of your installed software is found in the SURE GUI, via toolbar → help → about:



The above example screen shows two release numbers:

- The release number of the MCP software (100.3 compiled at Nov 3, 2021 at 17h27)
- The release number of the client software (100.3 built at Nov 3, 2021 at 12h35)

Both release numbers (MCP and client) consist of three parts:

1. The major release number (in this case 100)
    - We do not do any database reorganization or any data conversion inside the repository as long as the major release number remains the same.
    - There can be a database reorganization or data conversion between two major releases.
2. The minor release number (in this case 3)
    - The minor release number guards the compatibility between the client and server within a major release.
        - Sometimes we must make a modification on the client side and on the server side to solve an issue, and then we upgrade the minor release number.
        - In other cases, we only have to modify something on the client side or on the mainframe side, and then the minor release number is not raised.
3. The compile/build timestamp.
    - The timestamps are the moments of the compilation of the mainframe software and the build of the client software.

Compatibility of the Client software:
The SURE client is only compatible with the SURE server on the mainframe if the major release number and the minor release number are equal.
Refer to paragraph Sure-1902 for more details about the compatibility between the client software and the mainframe software, and for an explanation of the automatic upgrade feature of the client software.

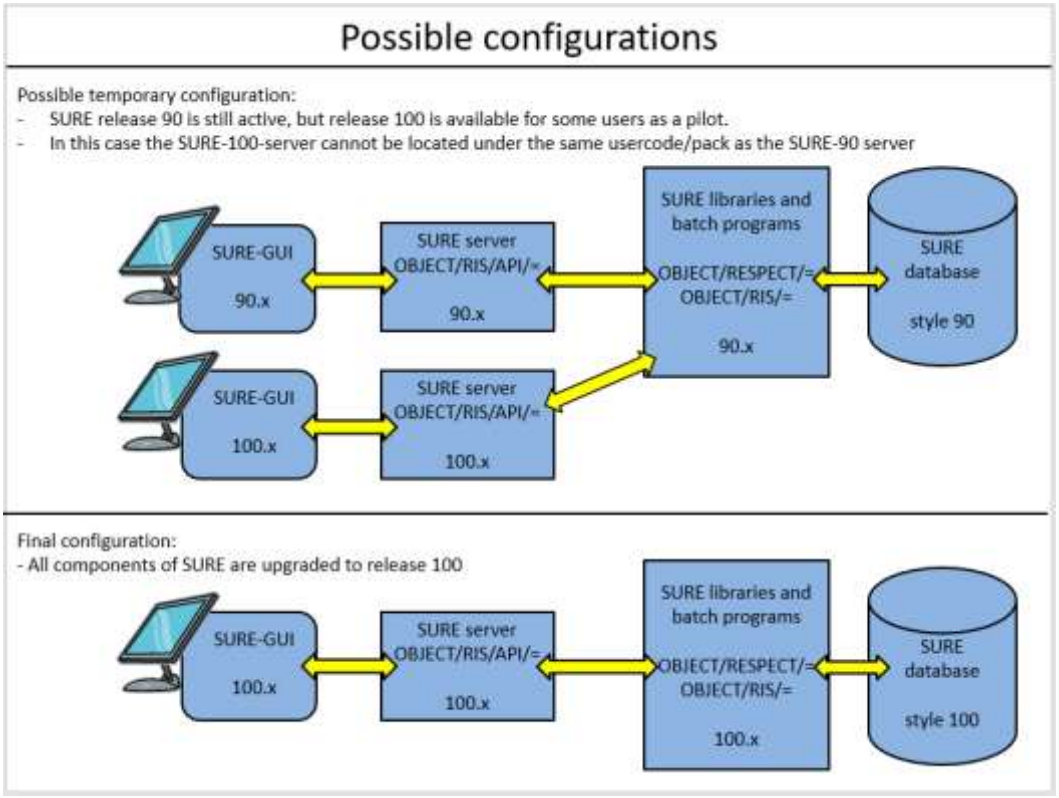
Compatibility of the Mainframe software:
SURE on the mainframe consists of three parts:

- Database INFDB
- The SURE-server OBJECT/RIS/API/=
- SURE libraries and batch programs OBJECT/RESPECT/= and OBJECT/RIS/=

The style of database INFDB is set by program RESPECT/REPOSITORY ("UPGRADE-REPOSITORY")

The following compatibility rules apply:

- A 90 style INFDB is compatible with the 90.x libraries and batch programs.
- A 100 style INFDB is compatible with the 100.x libraries and batch programs.
- The 100.x SURE-server is compatible with the 90.x and 100.x libraries and batch programs
  - Only if you did not use the Code Review functionality in release 90
- The 100.x SURE-server is ***only*** compatible with the 100.x SUREforWindows GUI.



1.4.4 Compatibility with Windows versions

The SURE client is tested under Windows-7 and Windows-10
The SURE client configured as SURE build server is tested under Windows Server 2008, 2012 and 2016

No compatibility issues were found

1.5 Upgrading the SURE software to release 100.x

There are several ways to upgrade to a newer release. Read the installation manual for details. The preferred method is as follows:

Upgrade of the SURE mainframe software and the repository:

- ?DISABLE the SURE Explorer interface on the mainframe
- Install the new SURE Explorer interface software on the mainframe **under the same usercode and with the same port-number** as where the old SURE Explorer interface software is resident. This overwrites the old SURE Explorer interface on the mainframe.
- Install the new general objects, and upgrade database INFDB to style 100 using the installation job WFL/RIS/INSTALL.
- Install the new client software on each workstation with an **upgrade installation**. This overwrites the old client software on the workstation.
- When all workstations are upgraded: ?ENABLE the SURE Explorer interface on the mainframe.

1.5.1 Automatic upgrade feature of the client software.

The automatic upgrade feature of the client software checks the current version of the client software with the available version of the client software. If both versions are not the same, an installation screen is presented.

Detailed information

Updating the SURE client software may require effort when having a large network. For this reason, SURE supports different styles of installation:

a) Local client installation on each applicable workstation
b) Server based installation with personalized options
c) Full server installation.

Server installations (options b and c)

In the case of a server installation, the SURE PC-software is placed on a central server that is accessed by the workstations of the developers. Because of this central installation, a software update is reasonable easy to install for the first time. Upgrading a server installation to a newer SURE release requires a few extra steps.
The tradeoff for a server installation is that the network throughput must be sufficient (100KBS). It does not support wide area networks with a low bandwidth.

Local client installations (option a)

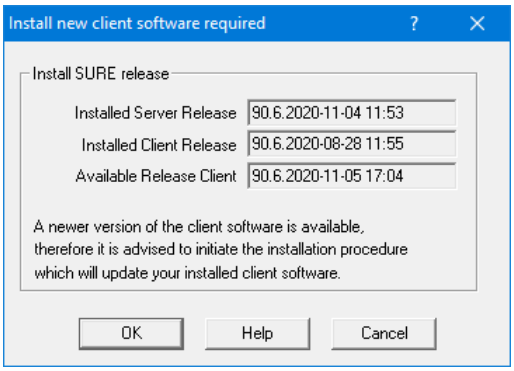
In the case of a local client installation, the SURE-PC-software is placed on the workstation of a developer. Installing the SURE PC-software as a local client is very easy for initial and upgrade installations.
The tradeoff is that it is difficult to synchronize the upgrade to a newer SURE release when the SURE-PC-software is installed locally at many workstations.

Solution

SURE can check the version of the PC-software at logon time and may initiate a local client installation. This combines the benefits of an easy local client installation with the benefits of a synchronized server installation.

Example

The following dialog is shown after logon when the versions of the installed client release and the available release for the client do not match.



This example screen describes the following situation:

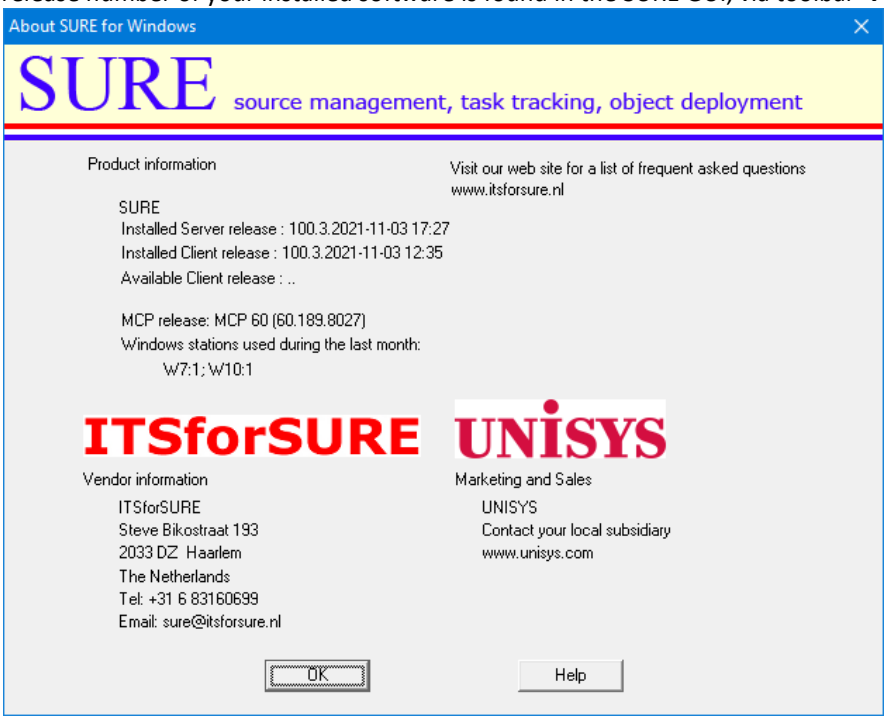
- The version number of the SURE-server on the MCP is 90.6, built on November 4, 2020 at 11:53
- The version number of the 'available' SURE PC-software is also 90.6, built on November 5, 2020 at 17:04
- The version number of the client software that is now installed on this workstation is 90.6 but built earlier.
- Obviously, there was a small software update. The server software is upgraded to November 4, 2020, and the corresponding new version of the client software was 'made available'.

Click OK to start the installation. This installs the available client software.

Click 'Cancel' to skip the installation, however the same message is then issued after the next logon.

- A possible reason to skip the automatic installation is for example when the developer works at home via a slow internet connection, and he does not want to upgrade his SURE-GUI via that slow connection. A solution is to upgrade the SURE-GUI later when he has a fast connection to the location where the new SURE-Client software is placed.
- It is possible to work with a SURE-client that has another software version number than the SURE Server software, but some actions may issue an unexpected error message.

The release number of your installed software is found in the SURE GUI, via toolbar → help → about:



The above example screen shows two release numbers:
- The release number of the MCP software (100.3 compiled at Nov 3, 2021 at 17h27)
- The release number of the client software (100.3 built at Nov 3, 2021 at 12h35)

Both release numbers (MCP and client) consist of three parts:

1. The major release number (in this case 100)
    - We do not do any database reorganization or any data conversion inside the repository as long as the major release number remains the same.
    - There can be a database reorganization or data conversion between two major releases.
2. The minor release number (in this case 3)
    - The minor release number guards the compatibility between the client and server within a major release.
        - Sometimes we must make a modification on the client side and on the server side to solve an issue, and then we upgrade the minor release number.
        - In other cases, we only have to modify something on the client side or on the mainframe side, and then the minor release number is not raised.
3. The compile/build timestamp.
    - The timestamps are the moments of the compilation of the mainframe software and the build of the client software.

Technical details and considerations

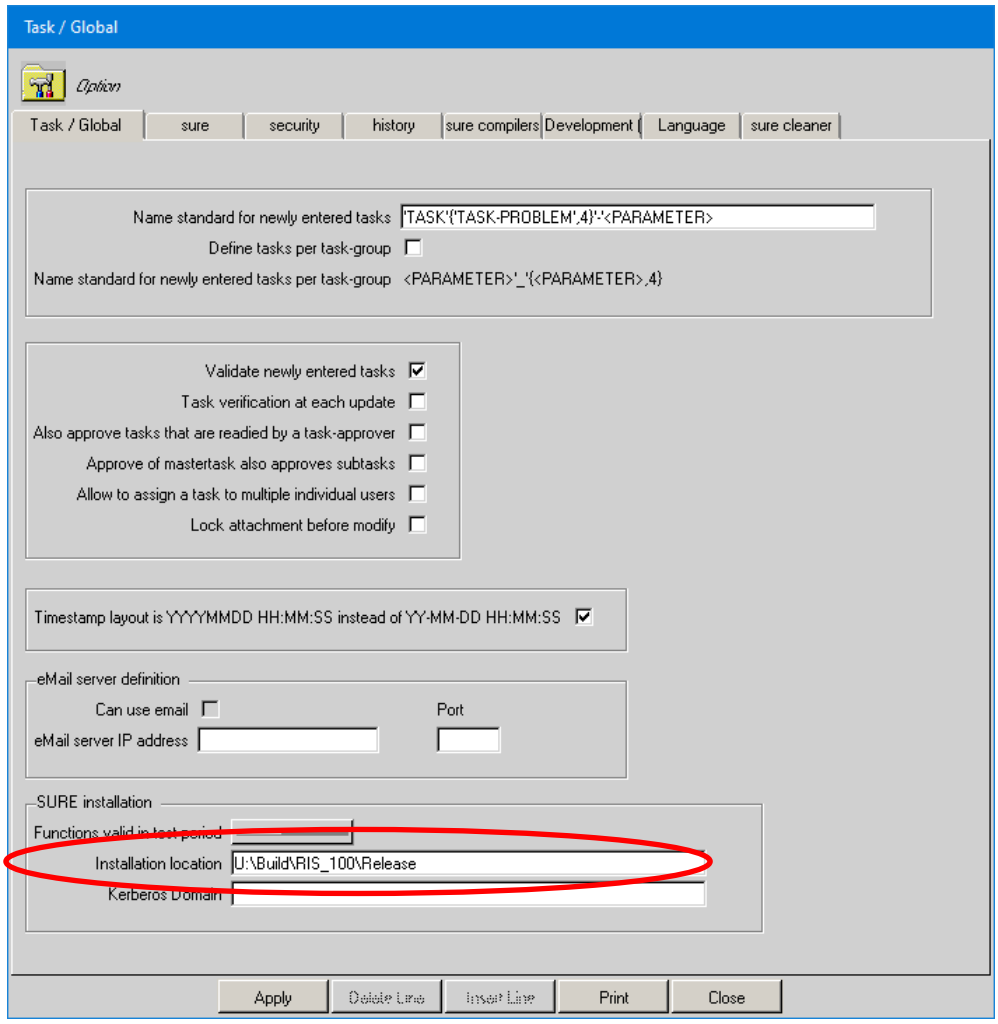
The following procedure is required to trigger the automatic client installation.

The delivered SURE software package contains the SURE CP/NX modules and the SURE client modules. The two modules are compatible and have the same version number.

The entire installation consists of three steps:

1. Copy the new version of the SURE CP/NX software to the correct location on the mainframe.

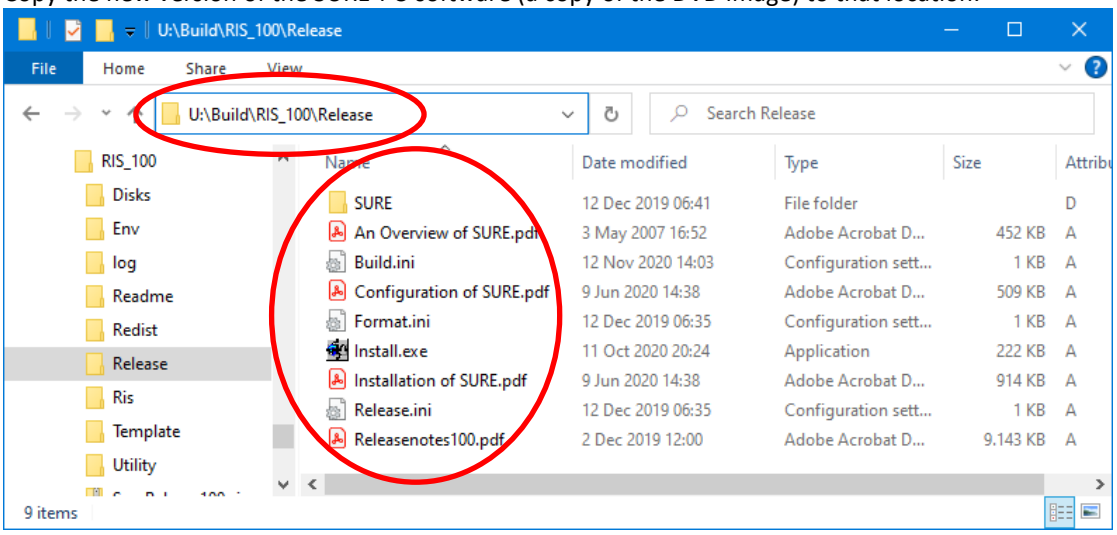
2. Define the location of the available client software in SURE:
   Global Options → field ‘installation location’



The location of the available client software is in this example:

U:\Build\RIS_100\Release

3. Copy the new version of the SURE-PC-software (a copy of the DVD image) to that location:



The SURE client software is available in directory 'U:\Build\RIS_100\Release\'
This directory contains three files that control the version number of the release:

- Release.ini
- Format.ini
- Build.ini

The number in file Release.ini defines the first part of the software version. This number is raised by one with every major release (about 1 time per year)

The number in file Format.ini defines the middle part of the software version number. This number is raised by one if the layout of the interface between PC and mainframe is changed.

The number in file Build.ini defines the build date of the software

If any of the three files (step c) is missing, or if the installed location (step b) is not defined, then the automatic installation dialog is skipped.

RFW.INI
It is possible to install multiple instances of SUREforWindows on one PC. Information about each SUREforWindows installation is kept in file RFW.INI in directory C:\ProgramData\ITSforSURE\.

The following example RFW.INI file contains information about two installations: an installation for the 'REND' repository and an installation for a 'DEMO' repository.

```
[GLOBAL]
APPLICATION1=SURE for Windows\REND
APPLICATION2=SURE for Windows\DEMO

[SURE for Windows\REND]
SETUP=SURE
DIRECTORY=C:\SURE\REND
INSTALLED3=SURE,100.1.0,BASE,DOCS

[SURE for Windows\DEMO]
SETUP=SURE
DIRECTORY=C:\SURE\DEMO
INSTALLED3=SURE,9.1.1,BASE,DOCS
```

When a SUREforWindows client is installed for the first time on a PC, the installation process asks for a program folder name. This program folder name is used for four purposes:

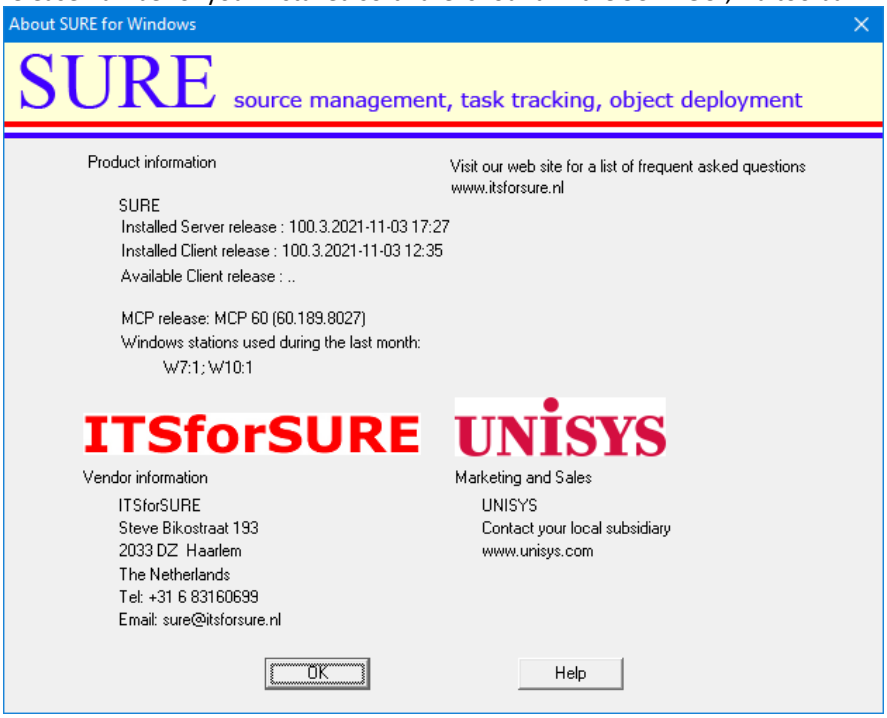
- Create a program folder in the Windows startup menu
- This name becomes the title of the SUREforWindows client (in the title bar)
- This name is placed in the AW_OBJ.INI file ([global]title)
- This name is used as a key for the RFW.INI file

The automatic installation searches for an application with the program folder name in the RFW.INI file. If the program folder name is not found in the RFW.INI file, then the automatic installation is aborted with an error message. If the program folder name is found, then the software is installed in the directory that is defined for the program folder name.

Example
A user starts 'SURE for Windows\DEMO' and logs on. An automatic installation is required and the user clicks on the OK button to start it. The automatic installation is started with parameter 'SURE for Windows\DEMO'. The automatic installation process opens the RFW.INI file and searches for application 'SURE for Windows\DEMO'. If that application is found then the software is installed in the directory that is defined in paragraph [SURE for Windows\DEMO]. This is directory C:\SURE\DEMO

1.5.2 About SURE release numbers

The release number of your installed software is found in the SURE GUI, via toolbar → help → about:



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- The release number of the client software (100.3 built at Nov 3, 2021 at 12h35)

Both release numbers (MCP and client) consist of three parts:

1. The major release number (in this case 100)
    - We do not do any database reorganization or any data conversion inside the repository as long as the major release number remains the same.
    - There can be a database reorganization or data conversion between two major releases.
2. The minor release number (in this case 3)
    - The minor release number guards the compatibility between the client and server within a major release.
        - Sometimes we must make a modification on the client side and on the server side to solve an issue, and then we upgrade the minor release number.
        - In other cases, we only have to modify something on the client side or on the mainframe side, and then the minor release number is not raised.
3. The compile/build timestamp.
    - The timestamps are the moments of the compilation of the mainframe software and the build of the client software.

The About screen shows also:
- The current MCP release. In this example: MCP 60.1
- The Windows-releases of the workstations where the SUREforWindows GUI was used during the last month.

2 Features and improvements

A full list of all tasks that are completed during this release can be found at the end of this document.

2.1 Detailed descriptions of the most important new features, release 100.x

This chapter gives examples and details about the most important new features that were completed during this release.
The following information is given per task:

- Task description + detailed description
    - This describes the new feature plus the reason why the feature was implemented.
- Examples
- Optional: Technical details and considerations
    - This describes compatibility issues and gives tips and hints.

Task-1299-SURE Support to review code changes and to mark a source as 'Reviewed'

SURE offers support in assessing changes to program source code.

There are 6 different ways (temporary and permanent) to identify files for code change assessment. A file to be assessed is blocked for transfer to the following environment until the assessment has been performed. The number of different reviewers and the review-role can be defined per project or per system.

It requires a task the change a source, and that task describes the reason why a source is changed.
So the code change assessment is done to check the changes in the source that were made because of the reason that is described in the task.

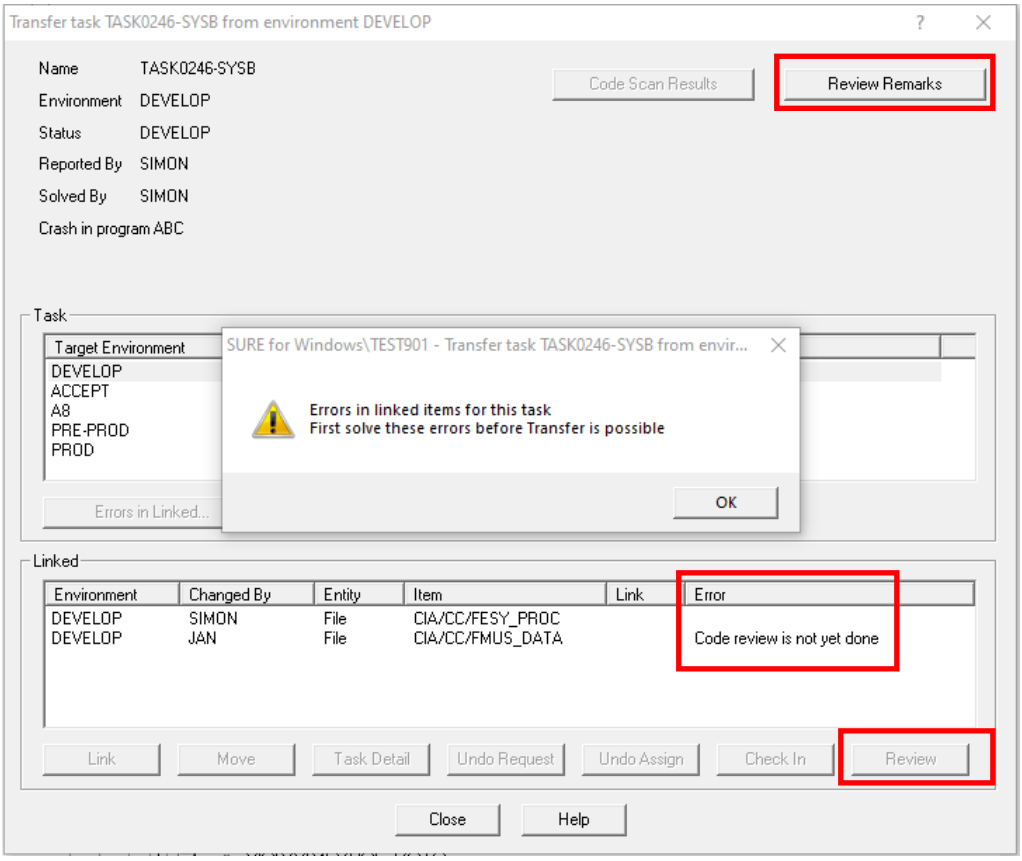
The Code Review procedure

Determine that source code changes must be reviewed

- If a review of source code changes is required (see option 1 below) and the source is checked-in on the environment, or transferred to the environment where the code review must be done (see option 2 below), then attribute 'Review the changes' is enabled for that source.

Task transfer is blocked if a required source code assessment is not yet done

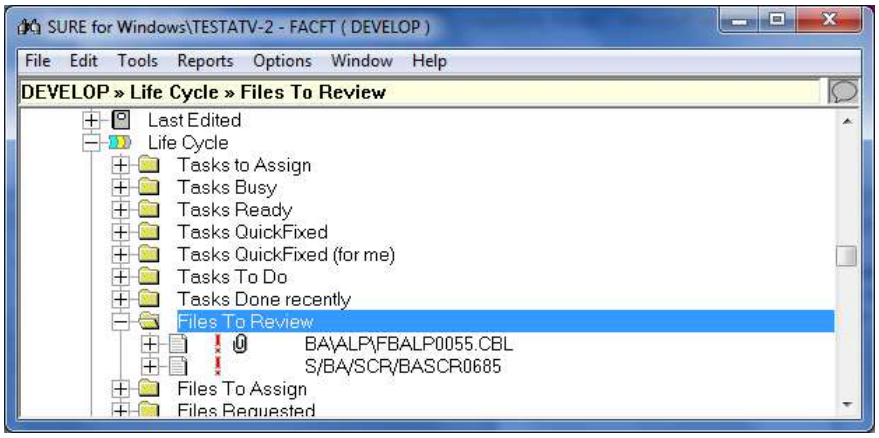
- It is not possible to transfer a task to the next environment as long as attribute 'Review the changes' is enabled for one of the linked sources. An error message is then given on the task-transfer screen:



  - Button [Review remarks] (upper right corner) shows the code review remarks of all sources that are linked to any of the tasks in this transfer
  - Button [Review] (lower right corner) gives the opportunity to perform the code review without leaving the transfer screen.

Life Cycle folder 'Files to Review'

- There is a new folder: LifeCycle → Files to Review. Sources with attribute 'Review the changes' appear in that folder.

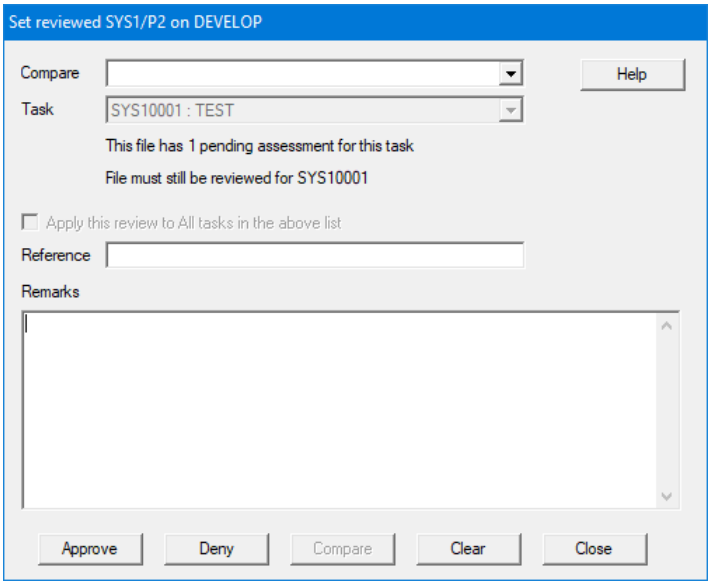


  - It is possible to indicate that the code review must be done by multiple reviewers.
  - The source appears only in folder 'Files to review' if the following conditions are all true:
    - If the user is allowed to do the review.
    - If the review is not yet done by the required number of reviewers.
    - If the users did not yet mark it as 'Reviewed'.

Review the source code changes

- A reviewer can review the source code changes via various ways. For example via the File Compare function of SURE. It is the reviewer's own responsibility to do a proper review of the code changes.

- A reviewer marks the code changes as 'Reviewed' via the following function:
  - Right click on the source → Review → Set reviewed



    - The current code review status is displayed on the screen. In this example there is 1 pending assessment.

    - Select the correct task (if the source is linked to multiple tasks)
    - The reviewer can make optional remarks about the changes (up to 12 lines).

    - Field 'Reference'

The user can enter an external reference number in this field.
It is possible to define a name-standard so that the entered external reference number is checked.
The entered reference number is visible in the log.

- Checkbox 'Apply this review to all tasks in the above list'
  It can happen that a file is linked to multiple tasks and has to be reviewed for all the tasks that are mentioned in the 'Task' drop down box.
  If this checkbox is enabled then the review is done for all these tasks in one action. The entered review remarks and review reference are linked to all these tasks.

The following functions are available:

Button	Function
[Approve]	Approve the changes, and update the code review status on the screen. The reviewer cannot be the same person as the developer who made the changes.
[Deny]	Don't approve the changes, and update the code review status on the screen. The reviewer cannot be the same person as the developer who made the changes. This blocks the transfer of the task to the next environment.
[Compare]	Start the compare tool. It is logged when buttons [Approve] or [Deny] are used without an earlier compare.
[Clear]	Clear the code review requirement for one task or for all tasks, and update the code review status on the screen. This function is only available for users with authorization bits 'Task/Code Review' and 'Global/Transfer block'. The user cannot be the same person as the developer who made the changes. This overrules function [Deny], so it releases the transfer block.
[Close]	Close the code review screen

- It is the reviewer's own responsibility to do a proper review of the code changes.
- Function 'Code Reviewed' is logged. The following is kept in the log:
  - The timestamp
  - The usercode of the reviewer
  - The environment where the review is done
  - The file-version of the source
  - The external reference
- If a reviewer marks a source as 'Reviewed', then that source disappears from folder 'Files to Review' of that reviewer.

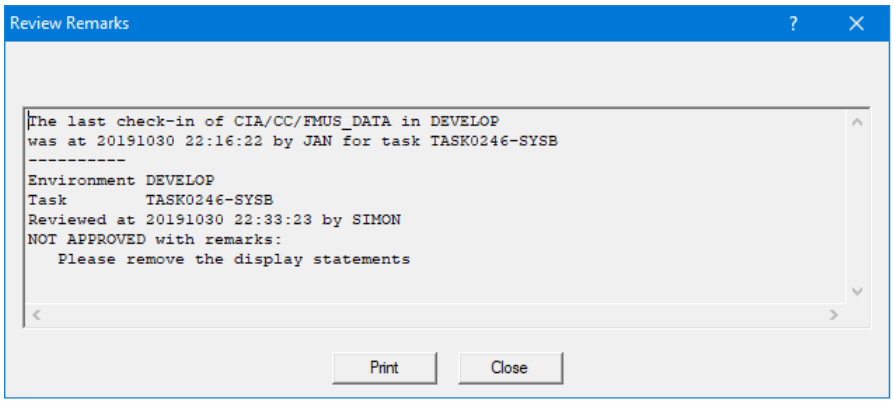
Check the remarks of a code reviewer

- Code review remarks are visible via the following functions:
  - Show all code review remarks of a file:
    - Right click on the file → Review → Show review remarks

- Show the code review remarks of all files that are linked to a task:
  - Right click on the task → Review remarks

- Show the code review remarks of all files that are linked to one or more tasks or master-tasks that must be transferred as a group:
  - Button [Review Remarks] on the task-transfer screen

- Example of the response screen:



- Button [Print] creates a Word document

Reset the review requirement after a new check-in

- Attribute 'Review the changes' is again enabled after an extra change of the source (check-out/check-in). The old code review remarks are not cleared, so that the reviewer can check if his old remarks are addressed in the source.

What happens if a task is deleted or closed, or when the source is delinked from the task

It requires a task the change a source, and that task describes the reason why a source is changed. So the code change assessment is done to check the changes in the source that were made because of the reason that is described in the task.

That is why the review request as well as the review result (approved or denied plus the review remarks) are both linked to the combination of the source and the task:

- Source + task requires code review
- Code review is done for source + task

- If a task is deleted then:
  - If there are still review requests for that task, then those requests are removed.
  - If code reviews are already done for that task then those review results are not removed.

- If a task is closed then:
  - If there are still review requests for that task, then those requests are removed.
  - If code reviews are already done for that task then those review results are not removed.

- If a source is delinked from a task then:
  - If there is a review request for 'source + task', then that request is removed.
  - If code review is done for 'source + task', then the review result is not removed.

- If a source is linked to a task then:
  - If there is no recent review result for 'source + task', then a review request is added.

- If a source is moved from task1 to task2 (on the task transfer screen):
  - If there is a review request for 'source + task1' then that request is moved to 'source + task2'
  - If code review is done for 'source + task1', then that review result is moved to 'source + task2'

- If a source is removed:
  - All review requests and review results are removed as well

Release the source for transfer if the code changes are approved by all reviewers

- If the source code changes are reviewed by the required number of reviewers (see option 3 below) then attribute 'Review the changes' is disabled, and that releases the source for transfer to the next environment.

- Another method to release the source is via button [Clear] on the review screen.
  - This function clears the review request and the blocking reviews (where changes were not approved).
  - This function is only available for users with authorization bits 'Task/Code Review' and 'Global/Transfer block'

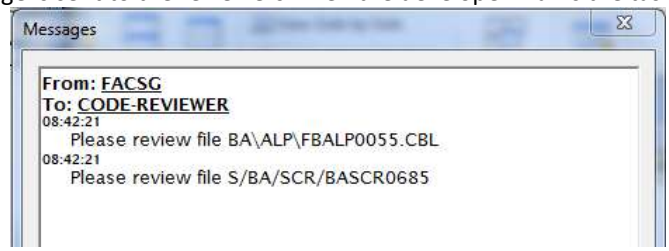
Other Code Review details

About the reviewer:

- The reviewer cannot be the same person as the developer who made the changes.
- If the reviewer is linked to a project list then he can only review sources of those projects, otherwise he can review all sources.
- A new authorization option 'Task/Code Review' is introduced for the code review. The reviewer must have that authorization code.

Function 'Code Reviewed' can be assigned to an employee-function (see option 4 below). In that case:

- The source that must be reviewed appears only in folder 'Files to Review' if the user is linked to that employee-function.
- If option 'Report to-be-reviewed when task is set to READY' (see option 5 below) is enabled then a message is sent to the reviewers when the developer marks the task as READY.



If a user logs on to SURE and his folder 'Files to Review' is not empty then het gets a reminder message from SURE:

The content of folder 'Files to review' depends on the following filters:

- Filter on Employee-function (via option 4 'Code review role'):
  - If field 'Code review role' is not entered then there is no active filter on Employee-function
  - If the field contains an employee-function then the file appears only in folder 'Files to review' of the users with that employee-function.

- Filter on Team OR filter on Project:
  - A file appears in the list if it passes the project filter or the team filter.
  - Filter on Team:
    - If the developer who did the check-in is not a member of any team then there is no active filter on Team
    - If the developer who did the check-in is a member of one or more teams, then the file appears only in folder 'Files to review' of his team members
  - Filter on Project:
    - If a user has an empty project list then there is no active filter on Project
    - If the project list of a user is not empty, then the file appears only in folder 'Files to review' if the file-project is part of the project-list of the user.

- If option 'Report to-be-reviewed when task is set to READY' is enabled then the checked-in file appears only in folder 'Files to review' after the task is set to READY. This supports intermediate check-in/check-out actions

Options to manage the 'Code Review' functionality

Option 1: Code review required

- The purpose of this option is to identify the sources that require a code review.

- The option can be defined at the following places:
  - Define the option for a system (via the project properties screen (project = system)):
    - The code must be reviewed for all sources of that system.

  - Define the option for a project (via the project properties screen):
    - The code must be reviewed for all sources of that project.

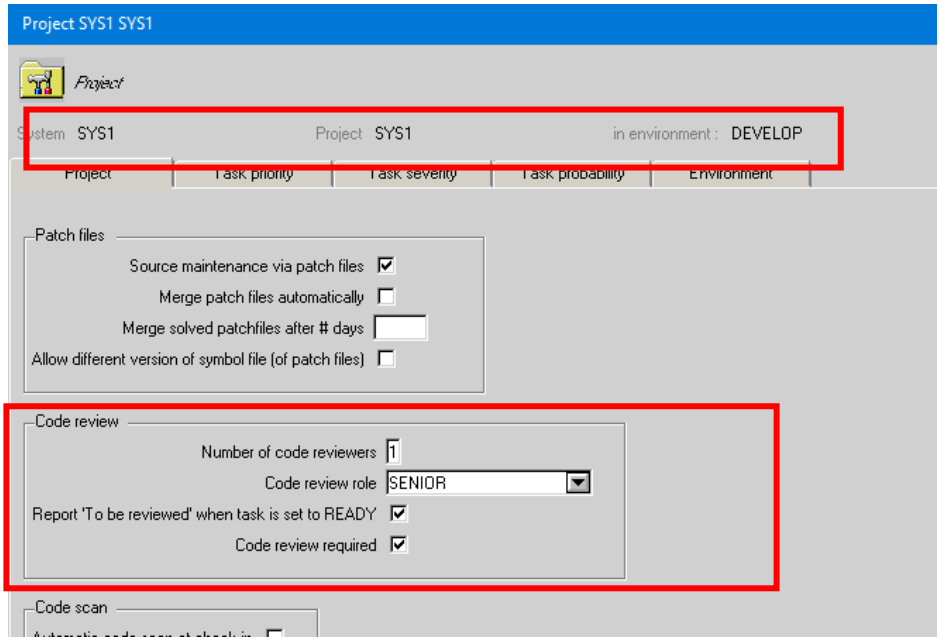
  - Define the option for a file-type (via the file-type properties screen):
    - The code must be reviewed for all sources of that file-type.

  - Define the option for an individual file (via file properties → tab 'SURE' → Field 'Code review required'):
    - The code review must always be done for this specific file.

- Define the option for a task-type (via the task-type properties screen):
  - The code changes must be reviewed if the source was changed because of task with that task-type.

- The combination of these options determines if the source code changes must be assessed or not.
  - For example: if program PROG/A has file-type DBP and option 'Code review required' is enabled for that file-type, then the source must be code-reviewed after a change.

Options 2, 3, 4 and 5 are all defined on the project properties screen for a specific environment. The explanation of these options is below.



The code review parameters may differ per project.

The code review parameters are used as follows:

1. If 'Number of code reviewers' is defined for the project of the source, then those review parameters are used.
   - If option 'Code review required' is enabled for the project then the source must be reviewed according to the review parameters of the project
   - If option 'Code review required' is disabled for the project then the source does not have to reviewed.
2. If 'Number of code reviewers' is <u>not</u> defined for the project of the source, then the code review parameters of the system are used:
   - If option 'Code review required' is enabled for the system or for the project then the source must be reviewed according to the review parameters of the system
   - If option 'Code review required' is disabled for the system and the project then the source does not have to reviewed.

Option 2: Define for a project or system the environment where and how the code review must be done.

- The purpose of this option is to identify for a project or system on which environment the code review must be done.
  - In this example: the code review for system SYS1 must be done in DEVELOP

- Notice that the code-review is only required for sources that meet option 1.
  Some examples
  System SAS with the following Code Review parameters on the SAS project screen:
  - Number of code reviewers = 1
  - Code review role = CODE-REVIEWER

  Project AA of system SAS with the following Code Review parameters on the AA project screen:
  - Number of code reviewers = empty
  - Code review role = empty

  Project ZZ of system SAS with the following Code Review parameters on the ZZ project screen:
  - Number of code reviewers = 1
  - Code review role = ZZ-REVIEWER

  For a program of project AA:
  - If option 'Code review required' is enabled for system SAS or for project AA then the program changes have to be reviewed according to the review parameters of SAS.
  - If option 'Code review required' is disabled for system SAS and for project AA then there is no review required.

  For a program of project ZZ
  - This project has code-review parameters, so the code-review-parameters of system SAS are ignored.
  - If option 'Code review required' is enabled for project ZZ then the program changes have to be reviewed according to the review parameters of ZZ.
  - If option 'Code review required' is disabled for ZZ then there is no review required

- It may happen that the multiple environments belong to the development domain.
  - For example:
    - The first environment is called DEVELOP and the developer does the following: check-out, modify source, unit-test, check-in
    - The second environment is called TESTDEV, where the developer does a more integrated test of his changes
    - The developer is authorized to transfer the task + source to TESTDEV and to reactivate the task back to DEVELOP when he is not satisfied about the result of his tests and he wants to make additional changes.
  - It is only necessary to review the code-changes when the developer is ready with his job, so at the end of the development domain. That means: when the source is transferred from the last environment that belongs to the development domain to the next environment

- The option must be defined per project and environment (via the project properties screen) via option 'Number of code reviewers.
  - If this number is not 0 then the code changes must be reviewed for this system on this environment.
  - If the number is 0 in all environments for a specific system then the code review functionality is disabled for that system.

Option 3: Define by how many different reviewers the code check must be done.

- Option 'Number of code reviewers' determines by how many different persons a code change must be reviewed when a source is changed in the environment.

Option 4: Define an employee function for the code reviewers

- Option ‘Code review role’ defines the employee function for the code reviewers.
    - If the code review role is defined then a changed source that must be reviewed appears only in folder ‘Files to Review’ if the user has that role.
    - If the code review role is not defined then a changed source that must be reviewed appears in folder ‘Files to Review’ of all users.

- Notice that the content of folder ‘Files to Review’ is always filtered via the project-list of the user and via the team-list of the developer who did the check-in.

Option 5: Report ‘To be reviewed’ when the task is set to READY

- If this option is enabled then a message with a code review request is sent to the code reviewers when the source is ready to be reviewed.

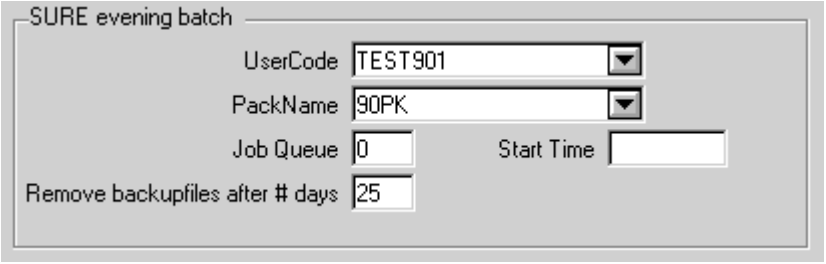
- If this option is disabled then no message is sent.

Task-1301-SURE Improve routing of SURE reports (via email)

The following general rules apply for the way how SURE batch listings (created by a SURE batch program) are created:

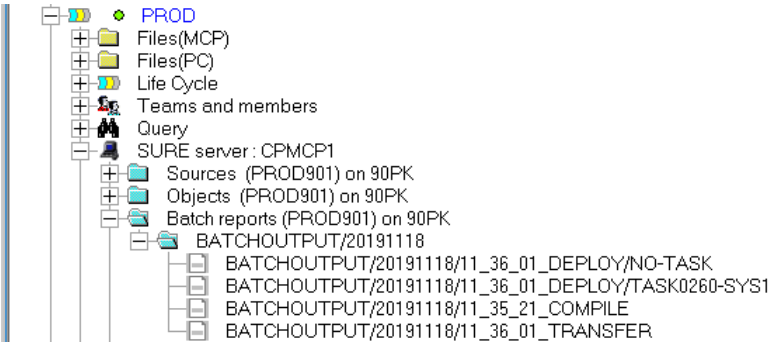
1. The file name of a SURE-listing (the printer backup file) is:
   - BATCHOUTPUT/<yyyymmdd>/<hh-mm-ss>_<report-id>
   - For example: BATCHOUTPUT/20191128/18_04_06_DEPLOY/TASK0123

2. The location of a SURE listing file is the 'SURE Batch Location' of an environment: the usercode and packname where the SURE evening batch runs:



   - This location is defined via tab 'SURE batch' of the screen with environments options, which means that each SURE environment has its own Batch Location.
   - Old SURE listing files are automatically removed from this location when they are expired. This expiration period is also defined on tab 'SURE batch' of the environment options.

3. The available listings are visible in the SURE browser via folder:
   <Environment-name> → SURE server → Batch Reports



-
   - A listing can be opened via function: Right click on listing name → Download

Emailing

It is also possible to email SURE reports as soon as they are created. The following general rules apply for emailing:

1. If a batch program is started by a user with an email address in SURE, and the program is started with extra parameter 'PRINTER = EMAIL' or the user has 'Printer Destination = EMAIL', then the output is sent that user by mail.

2. It is also possible to define a fixed email destination for the <report-id> (where the report-id is truncated at a slash '/') .

   The fixed email destination can be a team, an employee-function or a customer. If the emp-function, team or customer has an email address then that email address is used, otherwise the report is sent to all users with that function or team (and a valid email address)

The fixed email destination for the report can be defined globally (for all environments) or for a specific environment.

The following relation determines a fixed email destination:
Environment = <environment>
Group = OPTION
Owner = <report-id>
Class = EMAIL-TO
Asset = <employee-function or team or customer>

3. In addition to these general rules for email routing there are some reports with special email routing options. For example:
    - Task-deployment-overviews can also be sent to service managers, support engineers and team members (these email destinations must be defined on the system/project screen).
    - Compilation-syntax-overviews can also be sent to project leaders and environment administrator (users who are responsible for project, system or environment).

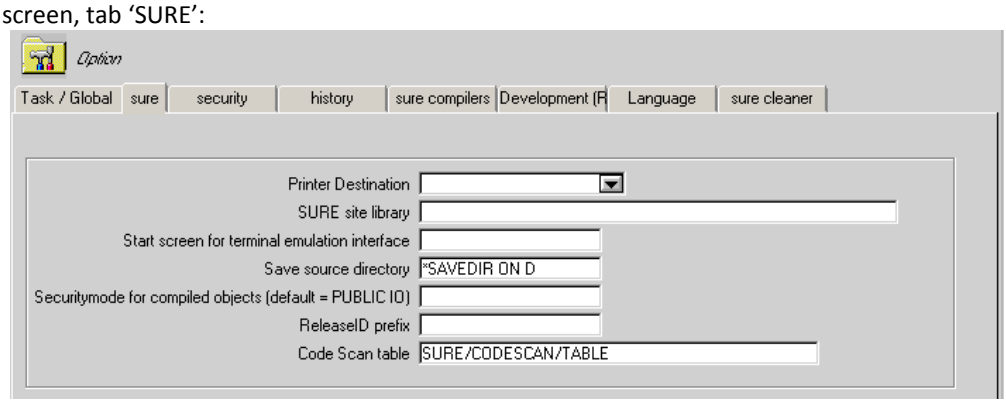
Task-1303-SURE Option: automatic code scanning after check-in

It is possible to define a table with words that should be avoided by developers. If such a table is defined, each source is automatically scanned after check-in on the words defined in the table.

The task transfer screen has a button that shows the code scan results of all programs with that task. A positive code scan is only reported: it does not block task transfers.

The Code Scan procedure

The code scan table
The code scan table is a file that that is loaded in SURE. The name of the table is defined via the global options screen, tab 'SURE':



This example shows a code scan table named 'SURE/CODESCAN/TABLE'.
The code can table can be an MCP file or a PC file.

Scan targets are defined in the code scan table. Each line contains one scan target. In addition, the table contains a number of scan options.

Option 'Automatic code scan after check-in'
Automatic code scanning can be enabled for a project on an environment or for a system on an environment:

- If the option is defined for a system (via the project properties screen where project = system) then code scan functionality is enabled for all sources of that system.

- If the option is defined for a project (via the project properties screen (project is not system)) then code scan functionality is enabled for all sources of that project.

If no code scan table is defined then Automatic Code Scanning is disabled for all systems and projects

Performing the automatic code scan
If a source is checked-in and Automatic Code Scanning is enabled on that environment for that source then the source is marked with relation CODE-SCAN(TO-CHECK)

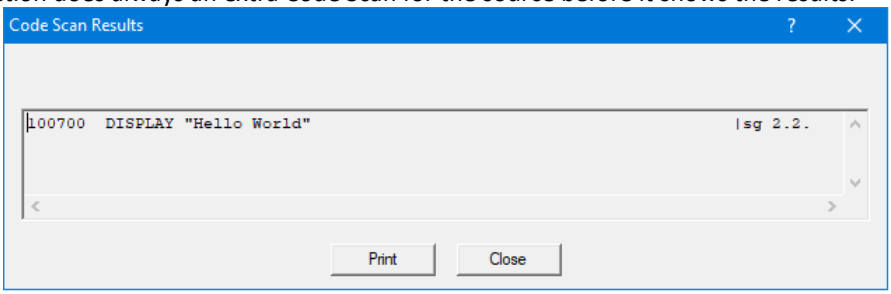
Program RESPECT/SURE/FIND runs in the daily SURE batch and performs the code scan for all files with relation CODE-SCAN(TO-CHECK).

Files that contain one or more scan targets are marked with relation CODE-SCAN(TOKEN-FOUND)

Expressions CODE-SCAN(TO-CHECK) and CODE-SCAN(TOKEN-FOUND) can be used in a Query or Macro to select the files with those relations.

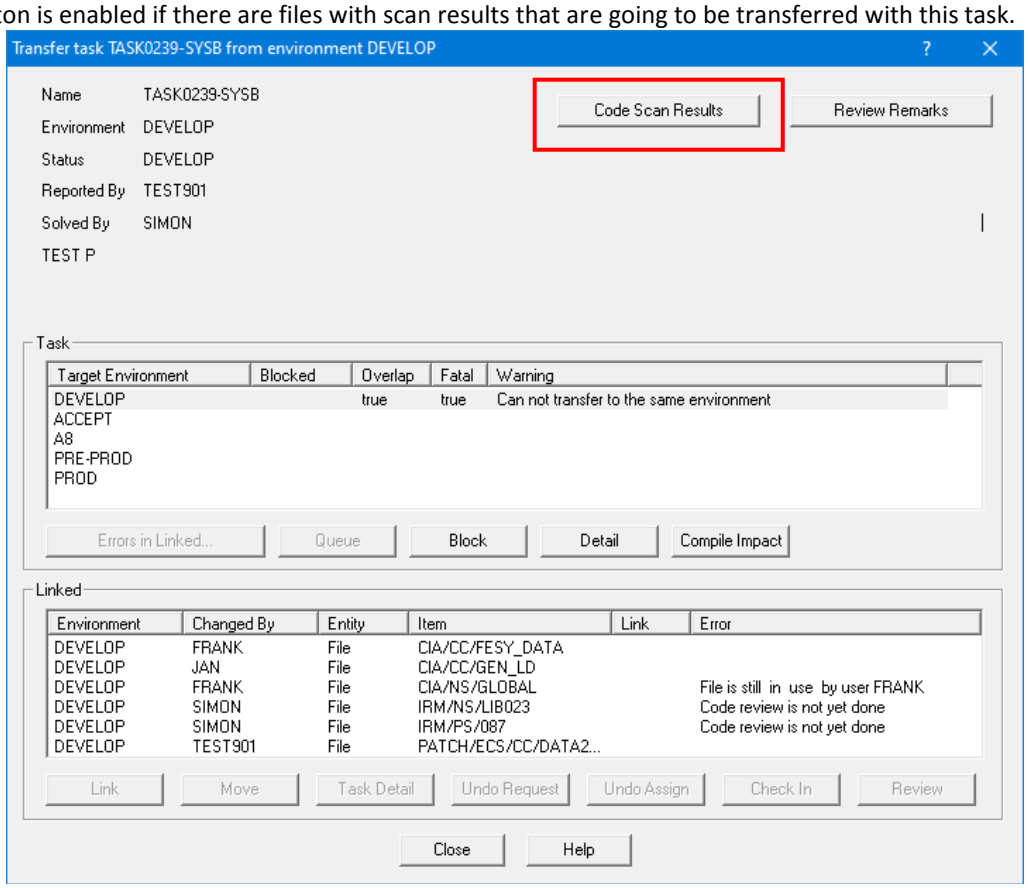
Viewing the code scan results for an individual source
Right click on a file → Miscellaneous → View code scan results

This function does always an extra Code Scan for the source before it shows the results:



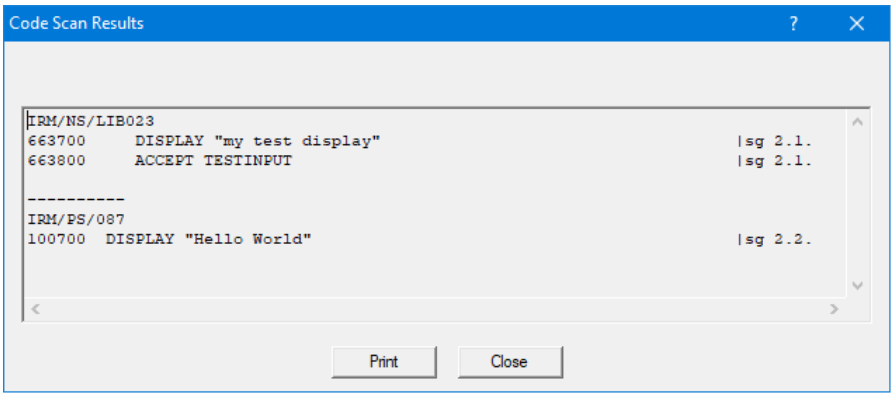
In this case the scan target was the word 'DISPLAY'

Viewing the code scan results for a (group of) tasks that must be transferred
The task transfer screen contains button [Code Scan Results] if a scan table is defined.
The button is enabled if there are files with scan results that are going to be transferred with this task.



The task transfer is not blocked by positive scan results.
The button is only available as a reminder that some of the sources contains words or constructions that should be avoided.

All found scan results are shown on the response screen:



In this case there is one file with the words DISPLAY and ACCEPT and another file with the word DISPLAY

The code scan table

The general syntax rules are:

- A scanning option is preceded by '@@'
- A comment symbol can also be defined via the scan options
- Lines that do not start with '@@' or with the comment symbol are scan targets

Scanning options:

@@CASE OFF	The code scan is not case sensitive (default)
@@CASE ON	The code scan is case sensitive
@@ALSOCOMMENT	Scan also comment lines in the source
@@LINENUMBERS	Scan also the line numbers of the source
@@COMMENTLINE <character>	Define a comment symbol for the scan table. All lines starting with this character are only comment and are not a scan target
@<switch scan target delimiter>	Switch the scan target delimiter. The default special character is '@'. For example: '@#' changes the scan target delimiter to '#'

Syntax of scan targets:

- Lines that do not start with '@@' or with the comment symbol are scan targets
- Scan targets that are not terminated with the Scan Target Delimiter ('@') identify a 'whole word target'
- Scan targets that are terminated with the Scan Target Delimiter ('@') identify a 'partial word target'. Multiple spaces are compressed to 1 space.
- Scan targets with the 'FOR <nr> CLAUSE' identity a combination of multiple scan targets over multiple lines. Multiple spaces are compressed to 1 space. This must be terminated with Scan Target Delimiter

Example of a scan table

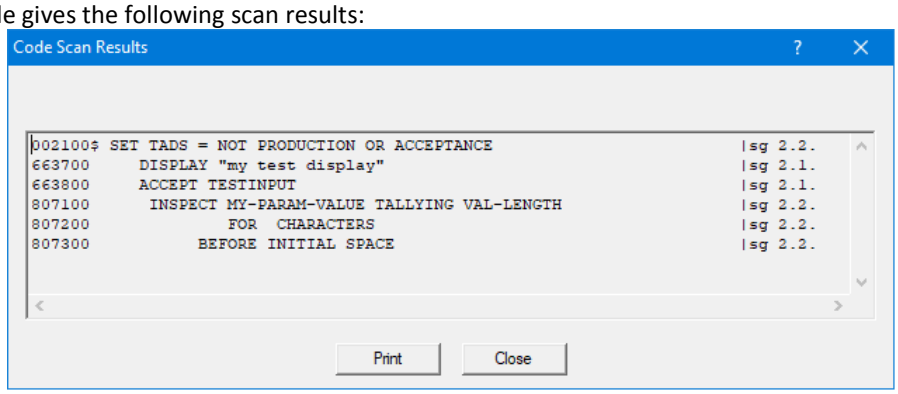
Line	Table
1	@@COMMENTLINE %
2	@#
3	% scan for the following targets

```
4       DISPLAY
5       ACCEP#
6       INSPECT INITIAL FOR 4 LINES#
```

Explanation:

- Line 1 defines the comment symbol for the scan table = '%'
- Line 2 changes the Scan Target Delimiter from '@' to '#'
- Line 3 is a comment line (because it starts with the comment symbol '%')
- Line 4 defines scan target 'DISPLAY'. This is a whole word target, so DISPLAY-IT won't be recognized
- Line 5 defines scan target 'ACCEP'. This is a partial word target, so ACCEPT will be recognized
- Line 6 defines a scan target where the words INSPECT and INITIAL are both used in the source in the defined order in a block of 4 lines. If found then the entire block is shown in the scan results.

This table gives the following scan results:



It is possible to enable Automatic Code Scanning for multiple environments, with a different table content for each environment by making the code scan table an anchored file

Task-1304-SURE New: Create and email deploy overviews per task

This improvement is only applicable for the MCP backend.

SURE creates a detailed deploy overview for each task that is compiled and deployed. It is also possible to email these overviews automatically to the responsible persons.

Deploy overviews

The deploy overviews are created by program RESPECT/SURE/TRANSFER

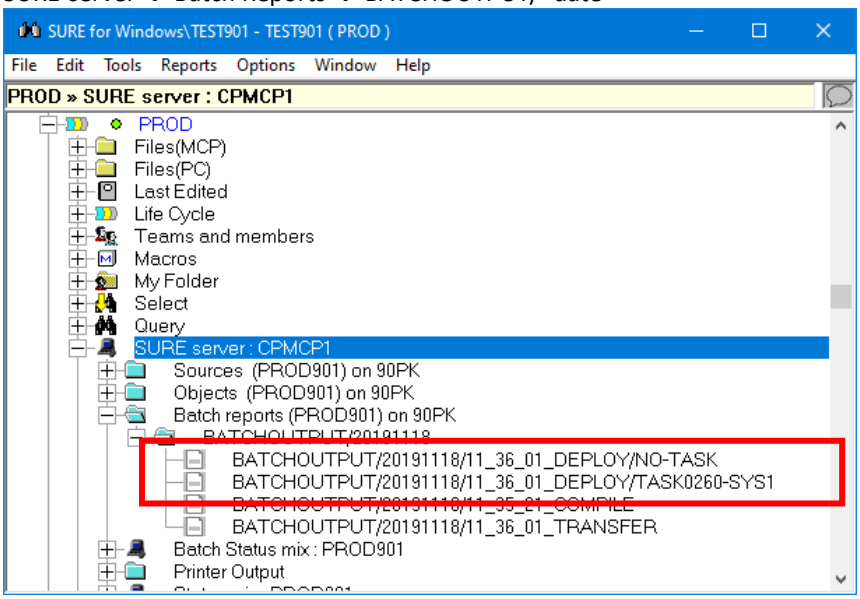
Deploy overviews are created per task:

- All programs that were changed, compiled or deployed because of a task are reported in the deploy overview of that task.
- The file name of a deploy overview is BATCHOUTPUT/<date>/<time>_DEPLOY/<task>

Programs that are compiled 'ad hoc' and not because of a task are reported in a default deploy overview called BATCHOUTPUT/<date>/<time>_DEPLOY/NO-TASK

The overviews are created as printer backup files, and saved on disk in the BATCHOUTPUT directory of the environment where RESPECT/SURE/TRANSFER ran.

You can download a deploy overview via folder:
SURE-server → Batch Reports → BATCHOUTPUT/<date>



- This example shows two deploy overviews
  - The default overview: DEPLOY/NO-TASK
  - A task-deploy-overview: DEPLOY/TASK0260-SYS1

The content of a deploy overview

The following is an example of a deploy overview:

```
Compiles/Deployments for TASK0260-SYS1 at PROD    18-nov-2019 11:36.
```

```
Task TASK0260-SYS1    This is the short description of the task

18-nov-2019 11:30: Reported by SIMON of department KANTINE.
18-nov-2019 11:33: Transferred  to PROD by TEST901.
18-nov-2019 11:33: Ready.
Handled by  TEST901.
Status      SOLVED
Project     SYS1
Type        FEATURE
Priority    MEDIUM


Description:
------------
Example of deployment overview of a task


Solution:
---------
This is the 'solution' info


Documentation:
--------------
This is the 'Documentation' info


Files changed:
--------------
SYS1/T20/C1
          Transfer Version 55.1 to PROD at 18-nov-2019 11:33 by TEST901.
SYS1/T20/P3
          Transfer Version 25.1 to PROD at 18-nov-2019 11:33 by TEST901.


Programs compiled:
------------------
SYS1/T20/P1
          Reason: SYS1/T20/C1.
SYS1/T20/P2
          Reason: SYS1/T20/C1.
SYS1/T20/P3


Programs deployed:
------------------
 prev  => new
  8.1  =>   8.1 (PROD901)OBJECT/SYS1/T20/P1 on 90PK
  1.2  =>   1.2 (PROD901)OBJECT/SYS1/T20/P2 on 90PK
 24.2  =>  25.1 (PROD901)OBJECT/SYS1/T20/P3 on 90PK
```

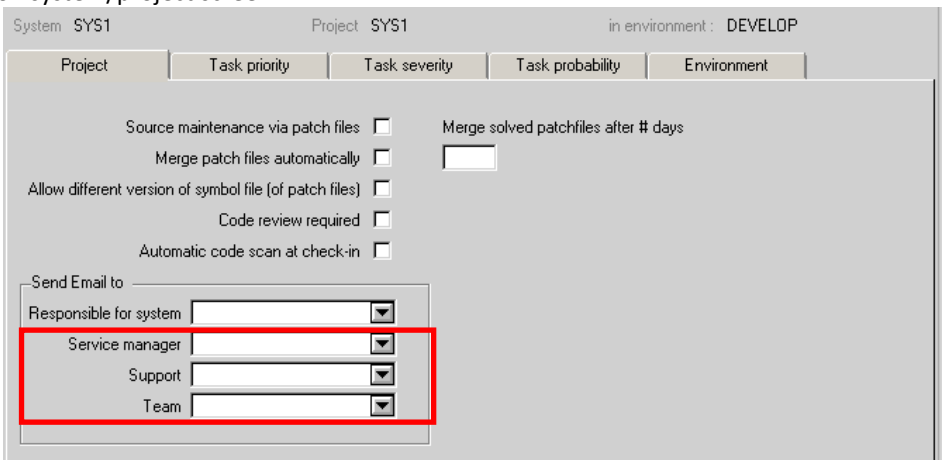
A deploy overview shows the following:

- The task name and the short description
- The timestamps when the task was created, assigned, transferred and solved
    - These timestamps depend on the environment of the compilation/deployment
- Several task attributes like reference, project, system, type, priority, severity, probability, et cetera
- The full task description
- The solution info (if entered)
- The documentation info (if entered)
- The files that were changed for because of this task, plus the method: check-in or transfer
- The programs that were compiled, plus the reason (a copy-file, multi-object, et cetera)
- The programs that were deployed, plus the previous and the new file-version

The default deploy-overview (for ad hoc compilations) does not show task-related information

Emailing the deploy overviews

The deploy overviews are emailed to responsible users or to teams based on email options that can be defined on system/project screen:



The following table describes the email routing for each option

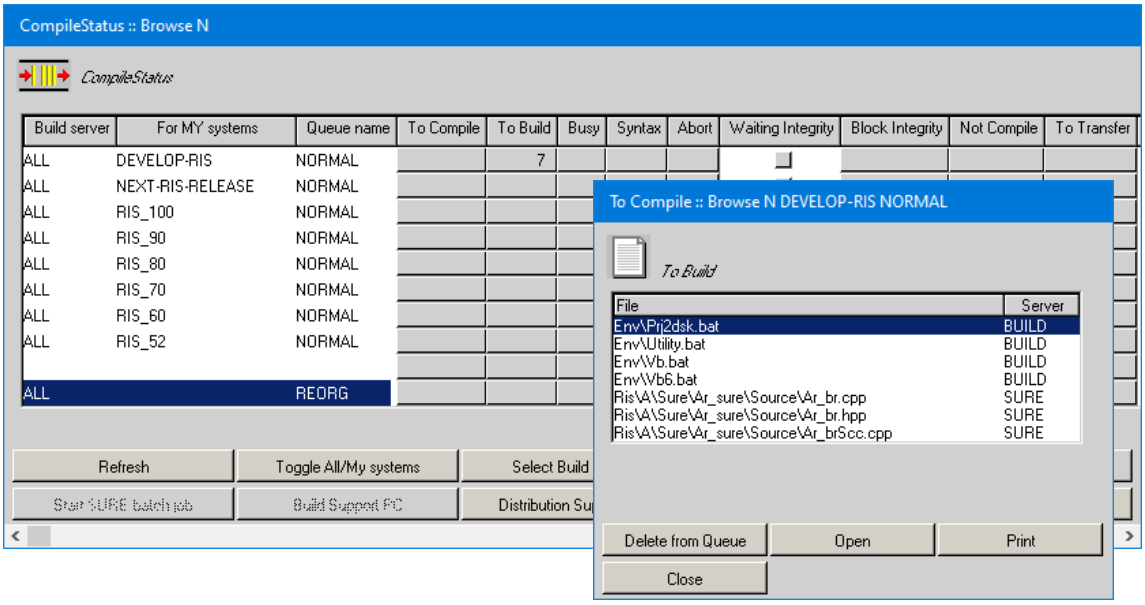
Email to	Explanation
<Service manager>	<Service manager> is an employee-function If this option is defined then: - If <Service manager> has an email address then the task deploy form is sent to that email address. - If <Service manager> does not have an email address then the task deploy email is sent to all users with that employee-function and with the task-project in their project scope.
<Support>	<Support> is an employee-function If this option is defined then: - If <Support>has an email address then the task deploy form is sent to that email address. - If <Support> does not have an email address then the task deploy email is sent to all users with that employee-function and with the task-project in their project scope.
<Team>	If this option is defined then: If <Team>has an email address then the task deploy form is sent to that email address. If <Team> does not have an email address then the task deploy email is sent to all members of the team and with the task-project in their project scope.

Task-1336-SURE Compile Interface: filter on specific Build Server

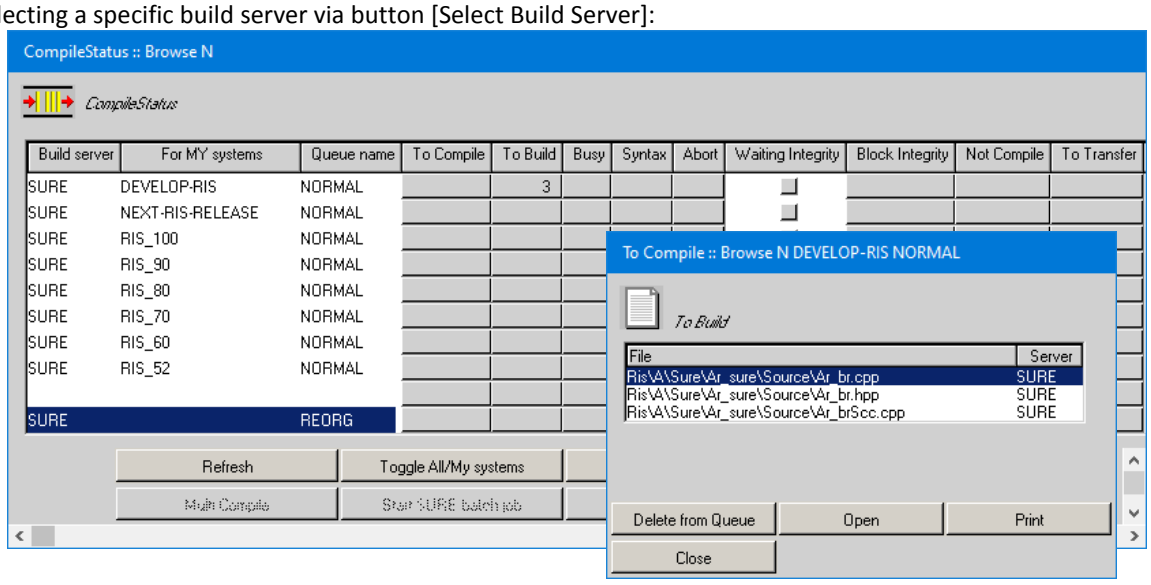
This function is only applicable for PC-files.

By default the Compile Interface shows the PC-files that are in the queue for any build server. It is now possible to select the queue of a specific server via Button [Select Build Server].

Example
The Compile Interface shows 7 files in the To Build queue: 3 for build server SURE and 4 for build server BUILD



After selecting a specific build server via button [Select Build Server]:



Notice that this button works only for PC-files: PC-files with another build server are suppressed, but MCP files are not filtered.

Function 'Purge Queue' in combination with a specific build server clears the Build Queue only for that build server (and it clears the compile queue of the MCP file).

Task-1369-SURE New task screen

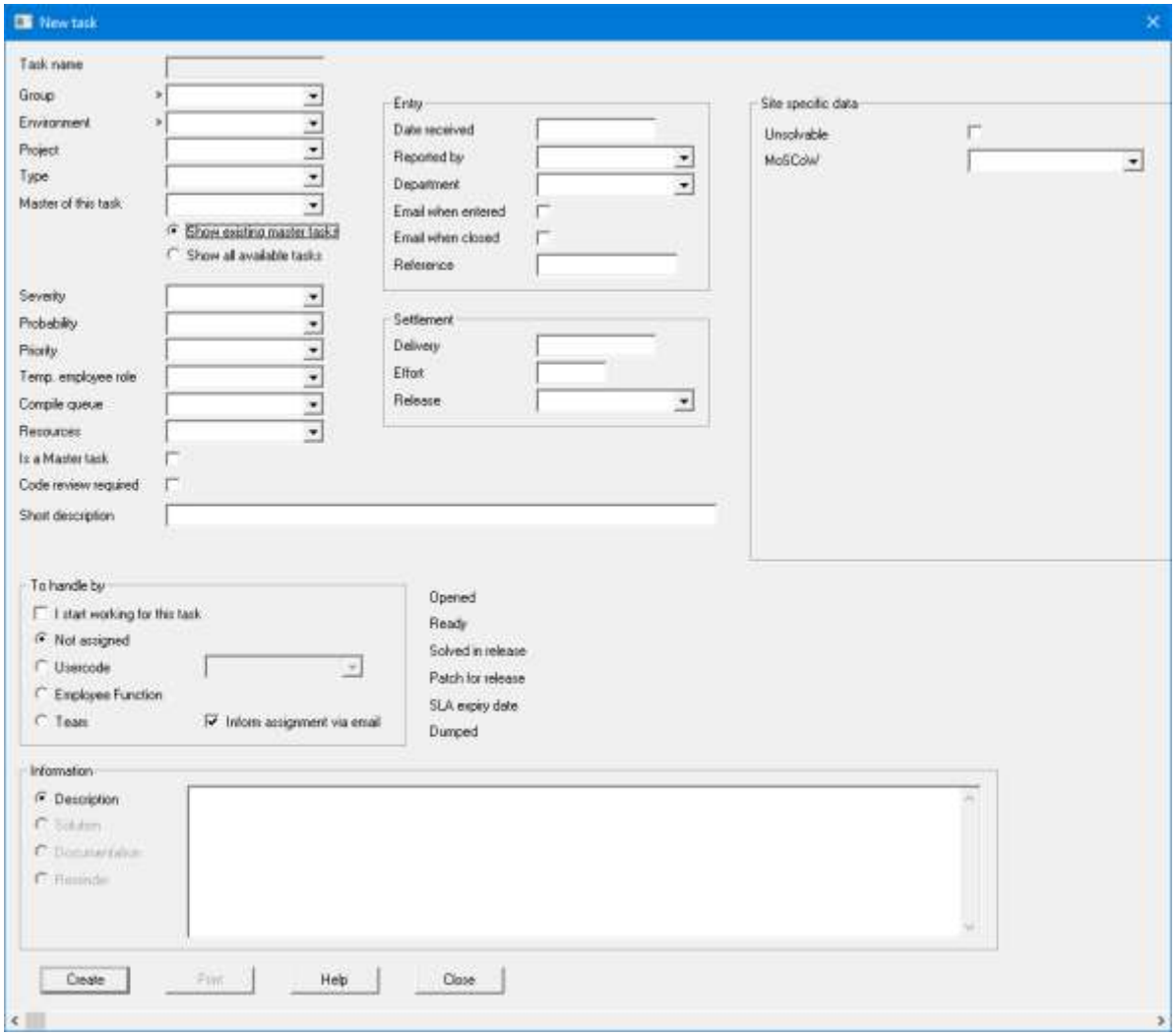
The task screen is used to define a new task or to inquire or modify the attributes of an existing task.

SURE has a new task screen that replaces the old (external) task screen.

The advantages of the new task screen are:

- The old task screen was handled by a separate external program. The new task screen is a dialog in the SURE-GUI, just like other dialogs, and that improves the performance and the 'look and feel'.
- An installation of the SURE-GUI does not require the .net-framework anymore.
- The new task screen does not require specific registry entries, which makes the installation easier.
- The site-specific task fields (fields that are defined by the organization) are now directly visible on the screen and not hidden behind a button.

The new task screen:



All functionality of the old external task screen is also available on the new task screen.

Button [Print] creates a task report, similar as function Toolbar → Reports → Print task form

Button [Help] gives the help information (same as below):

- A brief description of each field on the screen

- How to customize the task screen to the needs of your department
- The different methods how to enter a new task, and the required fields for each method

Key task attributes in the upper left corner

The attributes in this section determine the task-name, the flow and the accessibility of a task.

Task Name

The default way to create new tasks is via a naming standard formula that determines the name of the new task automatically.
If this field is enabled then authorized users have the possibility to overrule the naming standards to define a new task with a self-chosen name.
If this field is disabled then all task names are determined via a naming standard formula.

Group

This field must be enabled when you use task-groups.
Task-groups are only used when a new task is created.
The purpose of a task-group is as follows:

- Defining a new task via a task-group uses an alternative naming standard formula: it creates a task name with the group as prefix.
- It is possible to define a default project for a task-group. In that case the project of the group is pre-filled on the screen when you enter the group.
- It is possible to define a default short description for a task-group. In that case the short description of the group is pre-filled on the screen when you enter the group.
- It is possible to define a default task-type for a task-group. In that case the task-type of the group and the default task-type attributes are pre-filled on the screen when you enter the group.
  The default task-type attributes are:
  - Task environment
  - Task priority
  - Task effort
  - Temporary employee role

Environment

This field determines the environment where the developers work on the task.

Environment is a required attribute, but can be inherited from the task-type (leave the environment field empty to use the default value). If the task-type does not have a default environment, then you get an error message.

Project

The project is used in the naming standard formula to determine the task name, and the project is used to route the task to teams and/or users: the task is only visible for users who can work for all projects and for users who have the project in their project-list.
Task-project is a required attribute, but can be inherited from a task-group or a master-task.

Type

The type determines the flow of a task in SURE: must the task be approved and by who; must the changes for the task be code-reviewed, et cetera.
Task-type is a required attribute, but can be inherited from a task-group or a master-task.
The task-type determines also default values for the following attributes: Environment, Priority, Effort and Temporary-role (but only if these default values are defined for the task type).

Master of this task

This field shows the master of this task.
The behavior of this field depends on what you are doing:

- When you create a new task:
  - If you enter the name of an existing master task-in this field, then the name of the new task is prefixed with the entered master task
  - For example: master task REL20 gives sub task REL20/0001
- When you update the task attributes:
  - You can link the task to another task, to create a master/subtask relation.

The content of the drop-down list of this field depends on the radio button just below it:

- Option 'Show existing master tasks' shows the non-solved master tasks
- Option 'Show all available tasks' shows all tasks with an active status (not ENTERED and not SOLVED)

The task-type and project are inherited from the master task (if not filled-in).

Summary 1:
The algorithm how the name of a new task is determined when a task is created:

1. If field 'Task name' is entered and the user is allowed to create a task with a self-chosen name, then that name becomes the new task name.
2. Otherwise: if field 'Master of this task' is entered then the name of the new task is prefixed with the entered master task. For example: master task REL20 gives sub task REL20/0001.
3. Otherwise: if a naming standard formula is defined for the task-type, then that formula is used to determine the new task name (see task-type options).
4. Otherwise: if field 'Group' is entered, then the task name is determined by the 'naming standard formula for tasks that are entered per task group' (see global options).
5. Otherwise: the task name is determined by the standard 'naming standard formula for newly entered tasks' (see global options).

Summary how the required attributes are inherited:

- If a master task is entered:
  - If field 'Project' is empty then the project of the master task is used.
  - If field 'Type' is empty then the task-type of the master task is used.
- If field 'Group' is entered
  - Fields Environment, Project, Type, Priority, Effort, Temporary-role and Short-description are pre-filled on the screen based on that group.
  - You can change the pre-filled values, but you cannot empty a pre-filled value
- In all cases:
  - if field 'Environment' is empty then the environment of the task-type task is used (notice that the task-type can be inherited from a task group or a master task).

Other attributes in the left column

These attributes are optional, unless described otherwise.

Severity This field determines the severity of the task. It may be a required item depending on the task project.

Probability This field determines the probability of the task. It may be a required item depending on the task project.

Priority This field determines the priority of the task
Priority can be determined automatically via severity and probability (this is a project option).

	If this field is empty when a new task is created, then the default priority of the task-type is used.
Temporary employee role	The temporary employee function offers extra dynamic authorizations to the user, if the user is working on a task of this type. If this field is empty when a new task is created, then the default security function of the task-type is used.
Compile queue	If a task is linked to a user-defined compile queue, then all files that are changed because of this task will be compiled through that queue. If a task is not linked to a user-defined compile queue, the files will be compiled via the normal queue.
Resources	The name of a resource definition table that defines the default location for retrieval of resources.
Is a master task	Define the current task as 'Master Task'. A master task plus all its dependent tasks is handled by the system as one logical work unit.
Code review required	Enforce a code review by a senior developer for all sources that are modified because of this task
Short description	A short description of the task. (This is only for documentation purposes.) When a task is created via a task-group then the short description of the group is pre-filled on the screen

Attributes in section 'Entry'

The attributes in this section are related to the user or customer who reported the task.

Date received	The date when the issue was received from the customer or user. If this field is empty when a new task is added then today's date is used. This date is used for the overview of tasks that were reported during a defined period.
Reported by	The usercode or customer who reported the issue. Various overviews are available to list the announced, solved, and active tasks per usercode or customer.
Department	The department of the user who reported the issue. If this field is empty, the user's default department will be inherited. When the task is reported by a customer, the department field should be left empty.
Email when entered	If this check-box is enabled then an email is sent when the task is entered in SURE to the user or customer who reported the issue.
Email when closed / solved / denied	If this check-box is enabled then an email is sent when the task status changes to SOLVED to the user or customer who reported the issue (this can happen at functions transfer, close or deny).
Reference	A reference-number of the customer who reported the issue. It may happen that a customer has his own issue registration system where he keeps a log of reported issues. Newly added tasks receive automatically a task

number using a naming standard formula, and therefore, this task identifier will differ from the issue number that is used by the task registration system of the customer.

Attributes in section 'Settlement'

The attributes in this section can be used for planning purposes

Delivery The date when the task must be closed (status SOLVED).
It is possible to run a report with tasks that are overdue.
If the task is used for a patch-file then this date is used in the determination of the order how patch files are merged into the source.

Effort Expected hours required to solve the task.
If this field is empty when a new task is created, then the default effort of the task-type is used.

Release The software release for which the task has to be solved.
This field is used for planning and documentation purposes.
If you set the global option "use task-field 'next-release' to update the release number of its system" then an entered value in this field, changes the release number of the system.

Attributes in section 'To handle by'

A task can be assigned to a user, an employee-function or a team.

I start working for this task If the task is not assigned to myself or my team or my employee-function then assign it to myself
Make the task 'my current work task'

Not assigned Do not assign the task to a user, employee-function or team.

Usercode Select the user from the drop-down list. Only that user can work on the task.

Employee function Select the employee-function from the drop-down list. All users with that role can work on the task.

Team Select the team from the drop-down list. All users of that team can work on the task.

Inform assignment via email If this check box is selected, an email is sent to all users who have just been assigned the task.

Attributes in section 'Status information'

Dates and other status info

Opened The date when the first source (or RIS-component) was changed because of the task.

Ready The last date when the task got status solved. Notice that it is possible to reactivate the task and transfer it again to status solved.

Solved in release This gives the release number of the software release in which the task was solved. This release is inherited from the task system at the moment that the task gets status SOLVED.

Patch for release The historical software releases where a patch for this task was made. These release numbers are inherited from the task-system at the moment that the task gets status QUICK-FIX

SLA expiry date The date when the task must be solved, according to predefined SLA rules.
This date is only visible if SLA rules are defined for the task-project.
SURE gives warnings if the SLA-date is expired.

Dumped The last date when the task (and its linked sources) was dumped (and the number of different deliveries)

Approved This block is only visible if approve-information is available for the task.
The users who approved the task and the date of the approval

Attributes in section 'Information'

It is possible to define a default description template and a default solution template. These default templates must be defined for the task-type and they are shown on the screen if there is not yet specific description or solution defined for the task.

Description The description of the task. The first 80 positions are used as recognition text in the user interface.
The task description can also be changed via:
Right click on task-name → Description

Solution A description on how the task is, or can be, solved. This field can also be used to give an answer to the user or customer who reported the task.
Tasks with resolution info are marked in the browser with the 'tool' icon and can be selected via query expression SOLVED().
The task resolution info can also be changed as follows:
Click on the tool icon or right click on task-name → Solution

Documentation A description of the possible impact of this task on the documentation. A batch function is available to list all the tasks that have documentation impact that can be used as a guide to update the documentation.
Tasks with documentation impact are marked in the browser with the 'book' icon and can be selected via query expression DOCUMENTATION().
The documentation impact can also be changed as follows:
Click on the book icon or right click on task-name → Documentation impact

Reminder Various reminder info (like a yellow marker) for informal communication between developers. This type of info does not appear on task overviews.
Tasks with reminder info are marked in the browser with the 'lamp' icon and can be selected via query expression REMINDER().
The reminder info can also be changed as follows:
Click on lamp icon or right click on task-name → Reminder

Section 'Site specific data'

This section is only visible if there are site specific task fields defined in SURE.

Site specific task fields must be defined via:

Right click on folder 'Environment' → Customize task

Customization of the task screen

The task maintenance screen can be customized to the sites needs via option:

right click on folder 'Environment' → Customize task.

Two types of customizations are supported:

1. Fields on the screen can be defined as 'required' or 'disabled' and (when a new task is created) a default value can be assigned to a field.

   Combinations are possible and lead to the following behavior:

Required	Disabled	Default value	Resulting behavior
No	No	No	You can give the field a value or leave it blank.
No	No	Yes	The default value is pre-filled on the screen. You can change the field or you can clear it.
No	Yes	No	You cannot enter this field.
No	Yes	Yes	The default value is pre-filled on the screen. You cannot change it.
Yes	No	No	You must enter the field.
Yes	No	Yes	The default value is pre-filled on the screen. You can change it, but you cannot empty it.
Yes	Yes	No	This combination leads to frustration.
Yes	Yes	Yes	The default value is pre-filled on the screen. You cannot change it.

2. It is possible to define site specific task attributes. These site attributes are shown on the task screen, and you can change them via the task screen.

It is still possible to use the old-style task screens via special settings in the AW_OBJ.INI file

- Use the following settings if you want to use the old external task screen:

```
[SURE]
TaskAdd=C:\SURE\REND\RIS\BIN\TaskMnt.exe /O <OLEID> /A
TaskUpd=C:\SURE\REND\RIS\BIN\TaskMnt.exe /O <OLEID> /U <TaskName>
TASKMAINT=EXTERNAL/OBJECT/DIALOG
```

- Use the following settings if you want to use the old external task screen:

```
[SURE]
TASKMAINT=OBJECT
```

- The new task screen is the default one and requires no special settings

Task-1433-SURE Improvements for the query syntax

The Query dialog is used to select groups of files, tasks, users or something else via the relations.

The syntax of the Advanced Query Expression is improved as follows:

- It is possible to select on files, tasks or RIS-components that contain a specific kind of information
- The datetime filter is improved.

The remaining part of this chapter describes the complete syntax of the Advanced Query Expression. You can find this information also via button [Help] on the Query screen

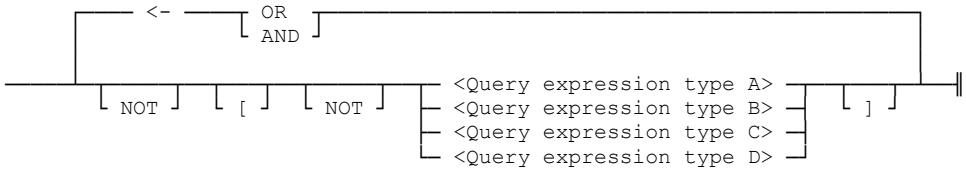
Advanced Query Expression

An Advanced Query Expression is the combination of one or more Simple Query Expressions, where each Simple Query Expression consists of a class and/or an asset. Simple Query Expressions are combined with the operators AND, OR and NOT.

You can enter your Advanced Query Expression in the box, or you can construct a basic expression via button [Wizard for Expression]

Syntax of an Advanced Query Expression

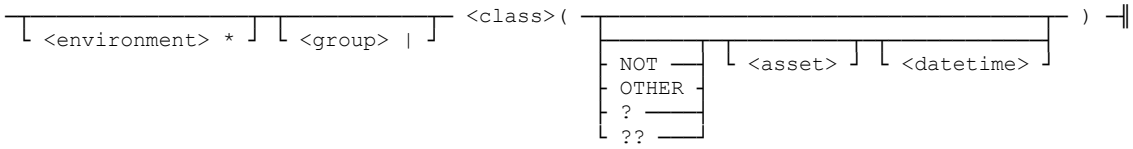
The following railroad diagrams describe the complete syntax of Advanced Query Expressions



Query expression type A

Use the following syntax if you want to select files or tasks(or other components) that:

- Have a relation with a specific class
- Don't have a relation with a specific class
- Have a relation with a specific class and asset
- Don't have a relation with a specific class and asset
- Have a specific kind of information




```
<environment> must be followed by '*'
<group> must be followed by '|'
<class> must be followed by '('  and ')'
<asset> can also be: asset1 OR asset2 (OR etc.)
```

Examples:

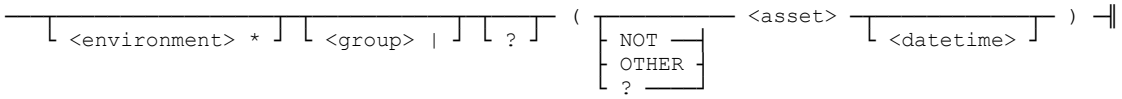
Class(asset)	STATUS(PRODUCTION) Files with production status
Class(asset1 or asset2)	DATASET(DACC OR DCUS)

	Files with dataset DACC and/or DCUS
Class( )	DATASET( ) Files that use a dataset
NOT Class( )	NOT DATASET( ) Files that don't use a dataset
Class(NOT asset)	DATASET(NOT DCUS) Files that use a dataset but not dataset DCUS
Class(OTHER asset)	DATASET(OTHER DCUS) Files that use a dataset other than dataset DCUS
Environment*class(asset)	PRODUCTION*COMPILE-STATUS(SYNTAX) Files with syntaxerrors in environment production

Query expression type B

Use the following syntax if you want to select files or tasks (or other components) that:

- Have a relation with a specific asset
- Don't have a relation with a specific asset.



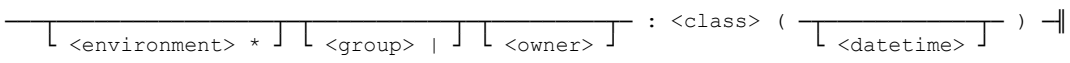

```
<environment> must be followed by '*'
<group> must be followed by '|'
<asset> can also be: asset1 OR asset2 (OR etc.)
```

Examples:

(asset)	(DJONES) Select files where DJONES is the asset in one of the relations. The name DJONES can, for example, be linked to relations with class AUTHOR, ANALYST, MAINTENANCE, REQUESTED or SOURCE-USERCODE
NOT (asset)	NOT (SYNTAX) Select files that don't have SYNTAX as an asset. So for example: no COMPILE-STATUS(SYNTAX)

Query expression type C

Use the following syntax if you want to select files or tasks (or other components) that are used in a relation as an asset.




```
<environment> must be followed by '*'
<group> must be followed by '|'
The ':' before <class> triggers the search for assets instead of search for owners
<class> must be followed by '('  and ')'
```

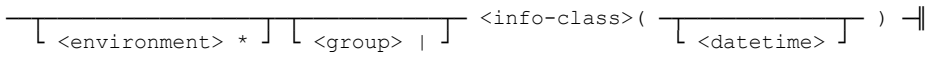
Examples:

Owner:class()	PROG-A:COPY-FILE() Select all copy-files of PROG-A

:class()	:LIBRARY() Select all files that are called by any program as a library

Query expression type D

Use the following syntax if you want to select files or tasks (or other components) that contain a specific kind of information.




```
<environment> must be followed by '*'
<group> must be followed by '|'
<info-class> must be followed by '('  and ')'
```

This syntax cannot be used at the beginning of an Advanced Query Expression or after operator 'OR'
Info-class must be one of the following tokens:

INFORMATION	Check on files or RIS-components with information
REMINDER	Check on files, tasks or RIS-components with reminder info
LAST-RUN	Check on files with run-information
SOLUTION	Check on tasks with solution-info
DOCUMENTATION	Check on tasks with documentation info
GENERATE-INFO	Check on RIS-components with generation-info

Examples:

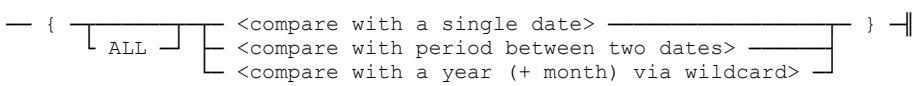
LAST-RUN({IN 2020})	Programs with a date-last-run in 2020
REMINDER()	Files, tasks or RIS-components with reminder info
SOLUTION()	Tasks with solution-info

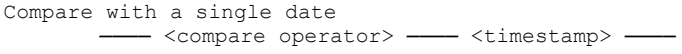
Datetime

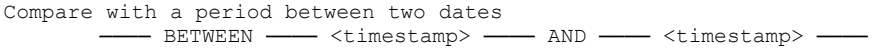
Use a date-time expression to select only the components with the relation within the defined time interval.

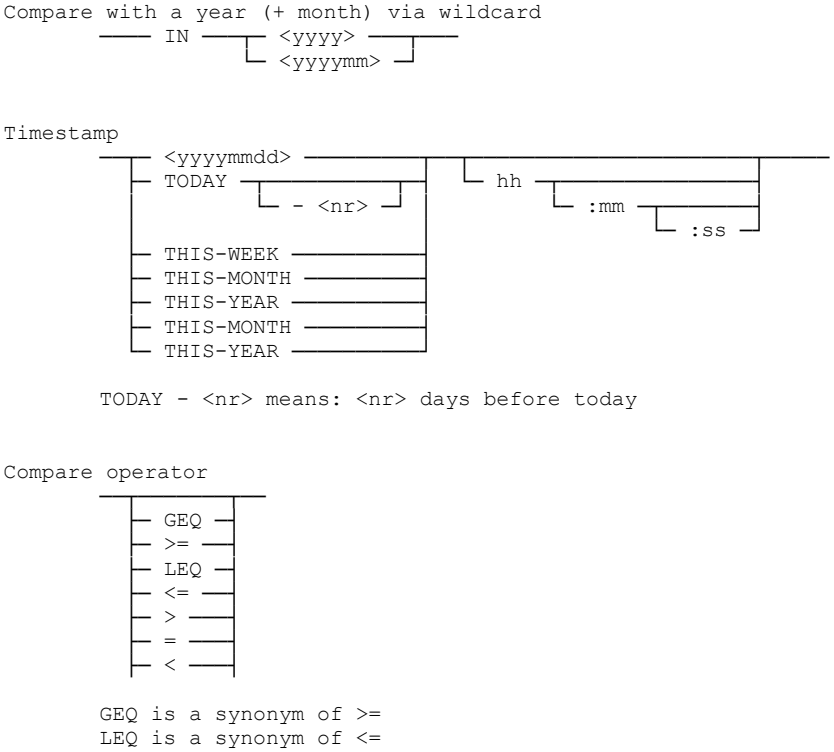
A date-time expression must be surrounded by accolades '{' and '}' and placed directly behind an asset and between the parenthesis that surround an asset. For example:

Class(asset{datetime})
Class({datetime})









Examples:

	Explanation
{>20191231}	Relation timestamp after December 12, 2019
{GEQ TODAY - 7}	Relation timestamp in the last 7 days
{IN 201805}	Relation timestamp in May, 2018
{BETWEEN 20190601 AND 20190610}	Relation timestamp between June 1 and June 10, 2019

Generic tokens in Query Expressions

Generic tokens are especially handy in macros, but they can also be used in an ad hoc query. A generic token value is replaced by an actual value, just before the macro or query is executed. The actual value depends on the user who executes the macro or query, on his work schedule, and on the current date.

The following generic tokens are available:

MY-TASK	MY-TASK is replaced by <my current task> when the macro or query is executed. Example: if my current task is TSK0025 and the expression is PROBLEM(MY-TASK), then all files linked to task TSK0025 are selected.
MY-USERID	MY-USERID is replaced by <my logon usercode> when the macro or query is executed. Example: if my logon usercode is SIMON and the expression is REQUESTED(MY-USERID), then all files requested by SIMON (=myself) are selected.
MY-ENVIRONMENT	MY-ENVIRONMENT is substituted by <my current environment> when the macro or query is executed. Example: if you open the query in environment DEVELOP then MY-ENVIRONMENT is replaced by DEVELOP

MY-PROJECT	MY-PROJECT is replaced by <one of the projects of my-project-list> when the macro or query is executed. Example: if PROJ-A and PROJ-B are the projects in my project list, and the expression is PROJECT(MY-PROJECT) AND STATUS(DEVELOP), then all files with STATUS = DEVELOP and (PROJECT = PROJ-A or PROJECT = PROJ-B) are selected.
MY-TEAM	MY-TEAM is replaced by <one of the teams of my-team-list> when the macro or query is executed. Example: if TEAM1 and TEAM2 are the teams in my-team-list, and the expression is SETTLEMENT(MY-TEAM), then all tasks with (SETTLEMENT = TEAM1 or SETTLEMENT = TEAM2) are selected.
MY-TEAMMEMBERS MY-TEAMMEMBER	MY-TEAMMEMBER is replaced by <one of the members of a team from my-team-list> when the macro or query is executed. Example: if TEAM1 and TEAM2 are the teams in my-team-list, and users SIMON, JAN, GERARD, FRANK and MARCO are members of one of those team, and the expression is SETTLEMENT(MY-TEAMMEMBER), then all tasks with (SETTLEMENT = GERARD or SIMON or JAN or FRANK or MARCO) are selected.
MY-EMPLOYEE-FUNCTION MY-EMP-FUNCTION MY-EMP-FUNC	MY-EMP-FUNC is replaced by <one of my employee functions> when the macro or query is executed. Example: if SYS1-DEVELOP and SYS2-DEVELOP are my employee-functions and the query expression is SETTLEMENT(MY-EMP-FUNC), the all tasks with (SETTLEMENT = SYS1-DEVELOP or SYS2-DEVELOP) are selected.
TODAY	TODAY can be used in the date expression, and will be replaced by today's date when the macro or query is executed. Example: the expression CHANGED({TODAY}) selects all files that are changed today.
TODAY - <days>	TODAY can be used in the date expression, and will be replaced by today's date when the macro or query is executed. Example: the expression CHANGED({>TODAY-2}) selects all files that are changed in the last 2 days.
THIS-WEEK	THIS-WEEK can be used in the date expression, and will be replaced by the first day of this week (Sunday) when the macro or query is executed. If THIS-WEEK is not preceded by a >, < or = then > is used as default. Example: CHANGED({THIS-WEEK}) selects all files that are changed since the beginning of this week.
THIS-MONTH	THIS-MONTH can be used in the date expression, and will be replaced by the first day of this month when the macro or query is executed. If THIS-MONTH is not preceded by a > , < or = then > is used as default. Example: CHANGED({THIS-MONTH}) selects all files that are changed since the beginning of this month.
THIS-YEAR	THIS-YEAR can be used in the date expression, and will be replaced by the first day of this year when the macro or query is executed. If THIS-YEAR is not preceded by a > , < or = then > is used as default. Example: CHANGED({THIS-YEAR}) selects all files that are changed since the beginning of this year.

Examples of Advanced Query Expressions

DATASET(DCUS) AND COPY-FILE(ICL/DCUS)
Select the files with dataset DCUS and copy-file ICL/DCUS

FILEKIND(DMALGOLSYMBOL) AND [SOURCE-USERCODE(RON) OR SOURCE-USERCODE(PAUL)]
Select DMALGOL files that are checked-out by RON or PAUL

CHANGED({IN 201705})
Select files that are changed in May 2017

ASSIGNED(MY-TEAMMEMBERS{THIS-MONTH})
Select files that are at this moment assigned to one of my team members, and the assignment was done in this month.

COMPILE-STATUS(SYNTAX) OR COMPILE-STATUS(ABORT)
Select all files with compile status = syntax or compile status = abort

COPY-FILE(CPY/AAA) AND DATASET(DCUS)
Select all files that use copy file CPY/AAA and dataset DCUS

COPY-FILE(CPY/AAA) AND NOT DATASET(DCUS)
Select all files that use copy file CPY/AAA but not dataset DCUS

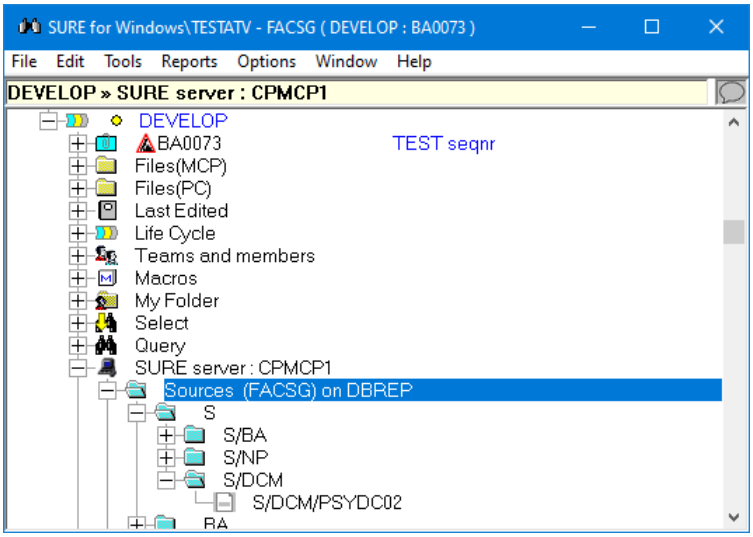
DATASET(DCUS{<20160101} OR DCOY{>20160101})
Select files that use dataset DCUS before 2016 or dataset DCOY since 2016

COMPILE-STATUS(COMPILED{>20180201})
Select all files that are compiled since February 1, 2018

COMPILE-STATUS(COMPILED{>=20180101}) AND NOT LAST-RUN({>=20180101})
Select all programs that are compiled since January 1, 2018 but did not run since then

Task-1434-SURE Use can delete file from his Sources-directory on the server

Each user has his own private work-space on the side of the SURE-backend. You can access this work space in the SURE-GUI via folder SURE Server → Sources



- For SURE backend on MCP this is the user's Cande work environment

- For SURE backend on Windows it is folder ..\DATA\<packname>\<usercode> on the Windows server where the SURE-backend runs

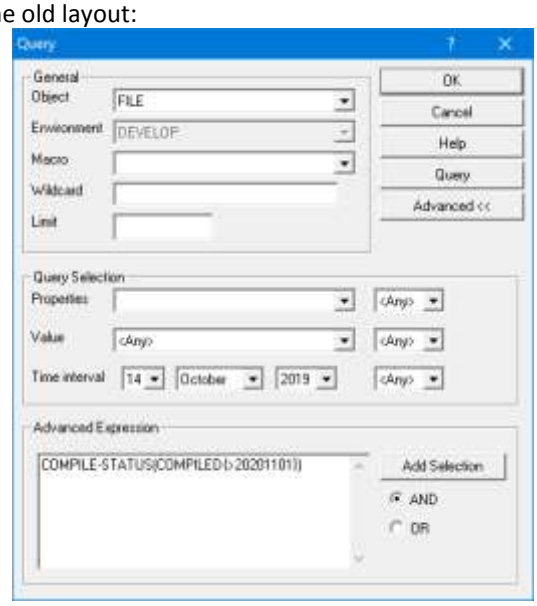
A user can now delete a file in his Server-sources directory to keep his environment clean.

- Delete a file via right click on the file name -> Delete
- You can only delete a file in your own Server-sources directory, based on you log-on usercode

Task-1435-SURE Improve function Query

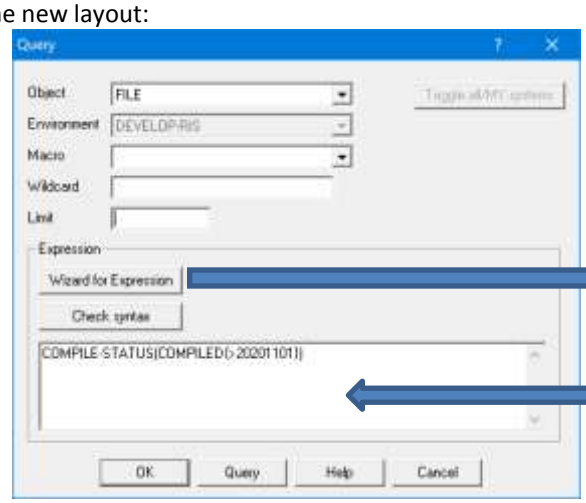
The layout of the Query screen is improved.

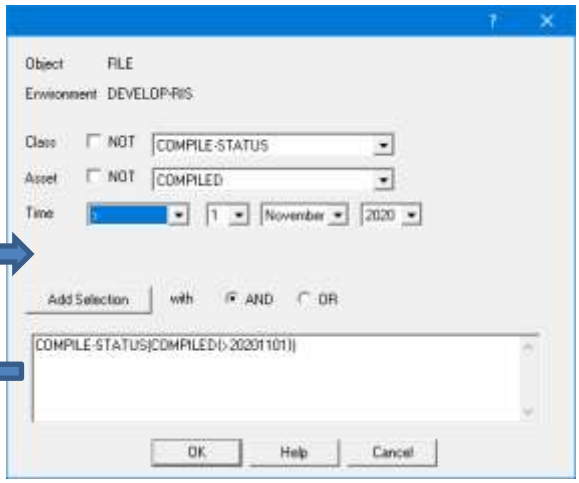
The old layout:



Section 'Query' on the old screen was confusing, because it worked differently in Normal mode and Advanced mode

The new layout:





Button [Wizard for expression] gives a continuation screen where the Query Expression can be composed using a wizard

But you can also ignore the [Wizard] button and enter the Advanced Expression directly on the screen

Button [Check syntax] can then be used to check the syntax of the entered expression

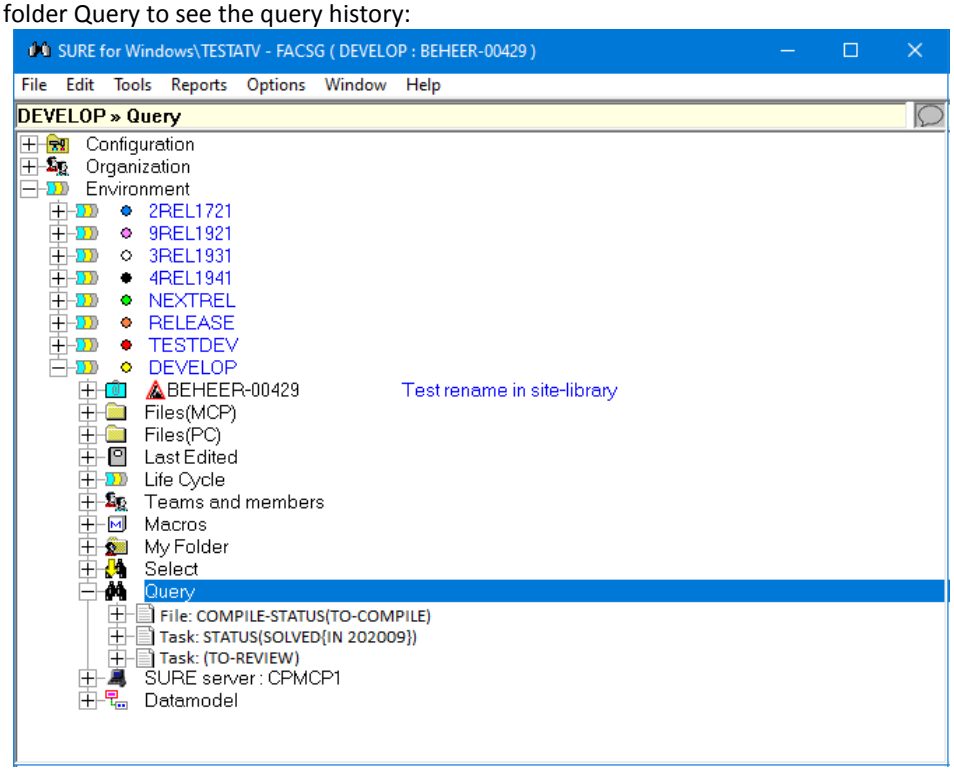
- Choose a 'Class', 'Asset' and 'Time' and press button [Add Selection] to extend the text in the box where the composed expression appears
- Click on [OK] to copy the text to the Query screen and to close the wizard

The wizard can only be used to create simple query expressions. The complete query syntax is described under button [Help] of the Query screen

The Query history

The last used Query expressions are saved in in the query history, and you can reuse them again. The benefit is that you can have multiple active queries and that you less have to re-enter query expressions.

Expand folder Query to see the query history:



- To start a new query:
  - Right click on folder Query → Execute, or click on the query-icon (the binocular)
  - This opens the Query screen
  - The new query expression is added to the query history

- Execute an existing query expression by expanding that folder
  - This opens the Query screen
  - You can update the query expression: that updates the line in the query history

- The last used query expression is moved/placed to the top of the list

- You can define the maximum number of lines in the query history via:
  Toolbar → Options → Number entries → Queries
  If a new query is added to the list then the oldest used query expression disappears from the list (similar as the content of folder 'Last Edited')

Task-1436-SURE Disable/Enable values of a drop-down list

The content of a drop-down list can be manually defined via folder 'Configuration -> Drop Down box value' or it can be defined automatically as a result of the data that is loaded in SURE.

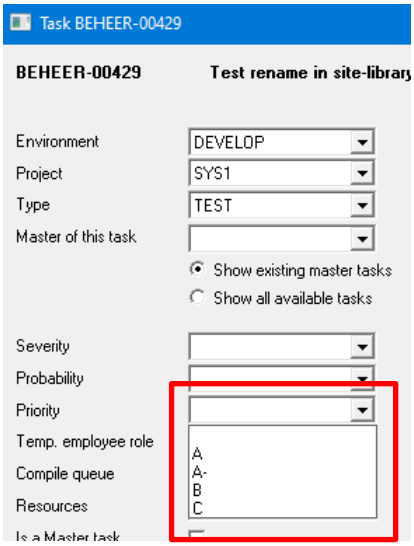
It is now possible to disable values of a drop-down list. This must be done via folder Configuration → Drop Down box value. The benefit is that drop-down lists can be cleaned up without losing historical information

Folder Configuration → Drop Down box value

- Values of a drop-down list can be disabled or enabled:

- Right click on a value to disable/enable it via the speed menu

The drop-down lists of the fields on the screens show only the values that are not disabled:



Task-1438-SURE Improve function Archive

We made the following improvements:

1. Introduction of a new function: 'Archive immediately'
2. If a file is archived, then archive the delta-files of that file too.

About function 'Archive immediately'

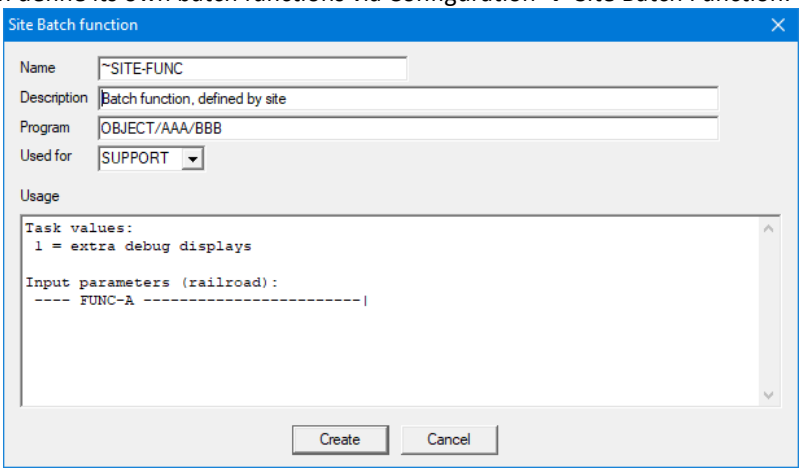
- Right click on a file → Archive → Archive immediately
- Up until now archiving was done in two steps:
    - first put the file in the to-archive queue,
    - Then run batch function MOVE-TO-ARCHIVE that did the actual archiving.
- With the new function 'Archive immediately' you don't have to run the batch function.
- Archiving is not possible if the archive environment is excluded for the system of the file.
- The old procedure is still available, but the function names in the menu are changed:
    - Function 'Move to Archive' is changed to 'Put in queue To Archive'
    - Function 'Undo move to archive' is changed to 'Remove from queue To Archive'

About archiving the delta files:

- The delta files are now also moved to the archive.
- We search in all environments for the longest range with delta-files that also contains the delta that belongs to the FileVersion of the archived file.
    - For example:
    - Suppose the following situation:
        - The file has FileVersion 5.1 in PROD and ACCEPT and FileVersion 6.1 in DEVELOP (so the version in DEVELOP is newer).
        - The range of delta-files in PROD is 3.1 to 5.1 (the older deltas were removed in PROD because of the defined parameters for delta-file cleaning).
        - The range of delta-file in ACCEPT is only 5.1 (also because of the cleaning parameters).
        - The range of delta-files in DEVELOP is 1.1 to 6.1.
    - The result of the archiving for this case:
        - The file exists in PROD, so FileVersion (5.1) is moved to the archive (because the rule is: if the PROD version exists then that version is archived, otherwise the newest version).
        - DEVELOP contains the longest range with delta-files and it also contains the delta to FileVersion 5.1, so the delta-range of DEVELOP is moved to the archive.
    - Notice that in this case the file itself is archived from PROD, but the delta-range is archived from DEVELOP.
- Function 'Restore from archive' restores the delta-files too

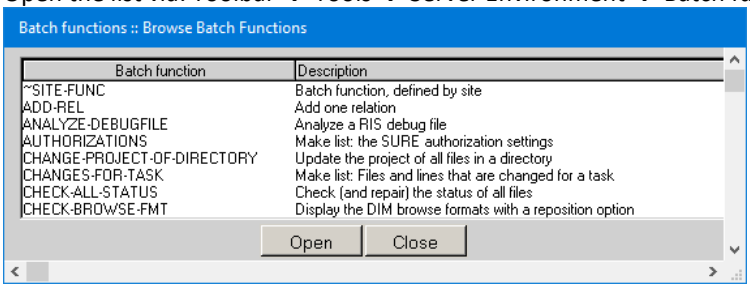
Task-1437-SURE Define site specific batch functions

Some sites have written their own SURE batch programs.
A site can define its own batch functions via Configuration → Site Batch Function:



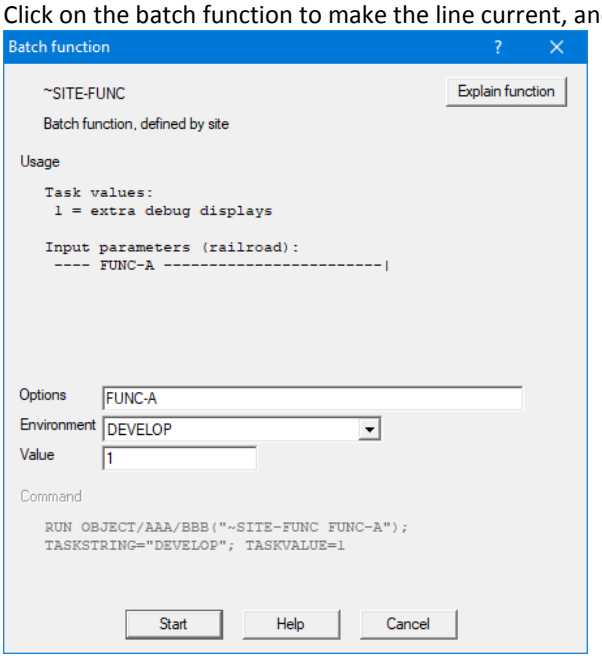
The site batch function appears in the same list and can be started the same way as the predefined batch functions:

- Open the list via: Toolbar → Tools → Server Environment → Batch functions:



Site function '~SITE-FUNC' is on top of the list (because of the sort order)

- Click on the batch function to make the line current, and press [Open]



- The railroad diagram with predefined input parameters is shown.
- Enter the options that you need and press [Start]

Task-1439-SURE Improve support for 'Time Last Run'

Time Last Run is the date-time when an application program ran for the last time. This run-information comes from the sumlog and is loaded in SURE via the load-log procedure:

SURE backend on MCP: Program RESPECT/SURE/LOG
SURE backend on Windows: Program RESPECT/SURE/AIXLOG

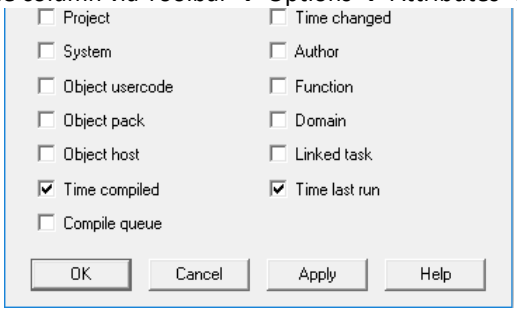
Normally the run-information is only loaded for the production environment because that is the best reality where programs run, but it can also be loaded for other environments.

Improved support for Time Last Run in the SURE GUI:

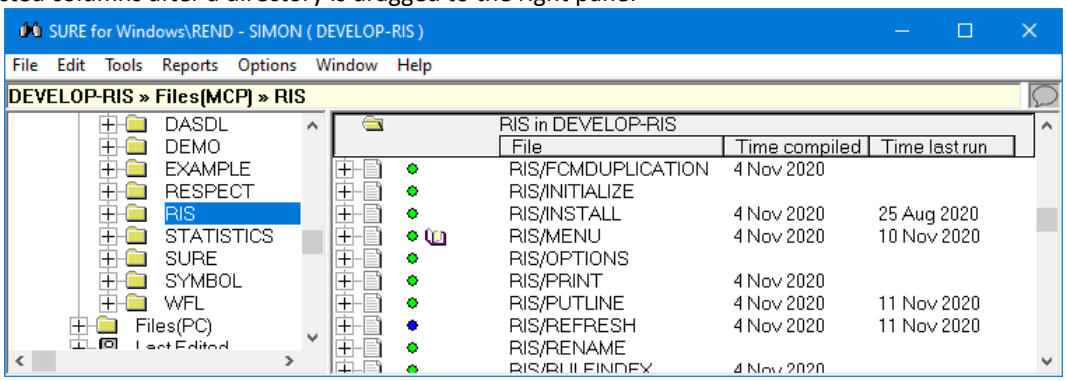
1. Check on Time Last Run in a Query Expression
   Examples:
   COMPILE-STATUS(COMPILED) and NOT LAST-RUN()
   - This query selects the files that are compiled but never ran (assuming that the run-statistics are loaded in SURE on a daily base)

   COMPILE-STATUS(COMPILED{>=20190101}) AND LAST-RUN({<20190101})
   - This query selects the files that are compiled after January 1, 2019, but never ran since that date

2. 'Time Last Run' in the right panes
   Select the column via Toolbar → Options → Attributes → Files



The selected columns after a directory is dragged to the right pane:



Programs that actually ran have a 'Time Last Run'
Programs that were never compiled or never ran don't have a 'Time Last Run'

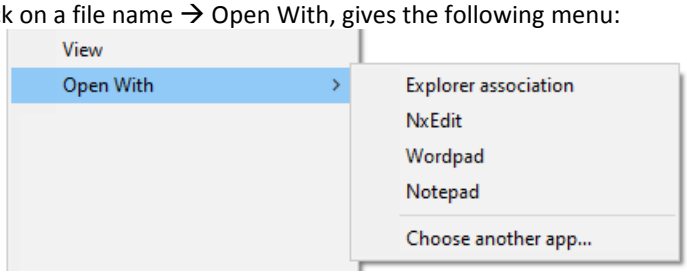
Other places in the SURE GUI where Time Last Run is visible:

1. The File-Properties screen → tab 'Statistics'
2. Right click on a file → Statistics → column 'Timestamp'

Task-1450-SURE Improve function Open With

The user can define a new editor (like Notepad++) that can be used to open a file via function ‘Open with’

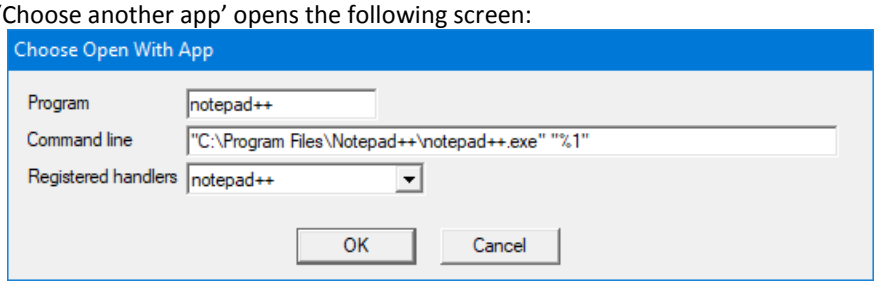
Right click on a file name → Open With, gives the following menu:



Explorer association	This opens the file in the default editor, based on the file extension. For example: - Files with file extension XLSX are opened in Excel - Files with file extension CPP are opened in Visual Studio
NxEdit	This opens the file in Programmers Workbench (the Unisys editor)
WordPad	This opens the file in WordPad
Notepad	This opens the file in Notepad
Choose another app	Add another editor to the menu

Option ‘Choose another app’ can be used to add another editor to the menu.
The procedure is as follows:

1. Option ‘Choose another app’ opens the following screen:



2. Select the editor that you want to use from the drop-down list of ‘Registered handlers’:

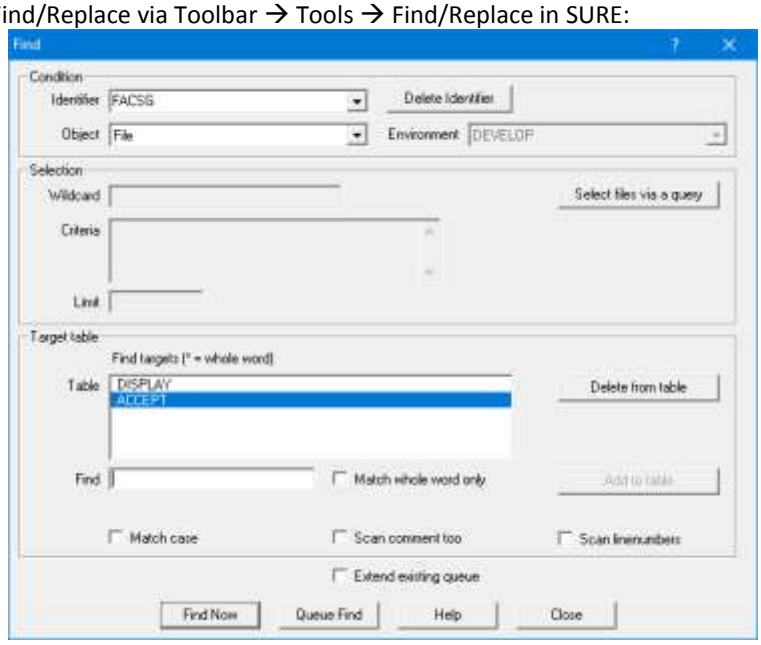
Program	The default name of the editor is pre-filled in this field. It is possible to adjust the name to your own needs.
Command Line	The startup parameter for the editor is pre-filled in this field . This parameter comes from the Windows Registry and should work immediately, but if the editor won’t start then you can adjust it here
Registered handlers	Click on the drop-down list to select a registered editor.

3. The selected editor is added to the menu, and the file is opened with that editor.

Task-1452-SURE Improve functions Find and Replace

Introduce a Find/Replace status screen where the user can check the status of the batch process.

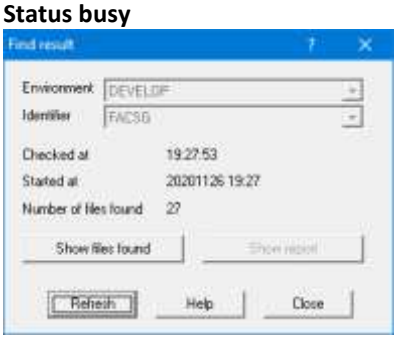
Start a Find/Replace via Toolbar → Tools → Find/Replace in SURE:



Define the Find or Replace table as usual and press button [Find/Replace now]

Button [Find/Replace now] starts the batch process immediately and opens the status screen:

Status busy



The status screen when the find is still busy.
The screen does every five seconds an automatic status check, and returns the following information:
- The date/time of the last status check
- The date/time when the process was started
- The number of found files up until so far
- Button [Show Report] is disabled.

Status Ready

The status screen when the find is ready gives the following information:
- The date/time of the last status check
- The date/time when the process was ready
- The total number of found files
- Button [Show Report] is enabled

Button [Show files found] opens a list with files where a find target was found (up until so far) in folder File → Select
Button [Show report] opens the find report

A user has two options:
- Leave the status screen open and continue with other activities in the SURE browser
- Close the status screen and re-open it later via Toolbar → Tools → Show Find/Replace results

Task-1480-SURE Hook an external code scanning tool to SURE

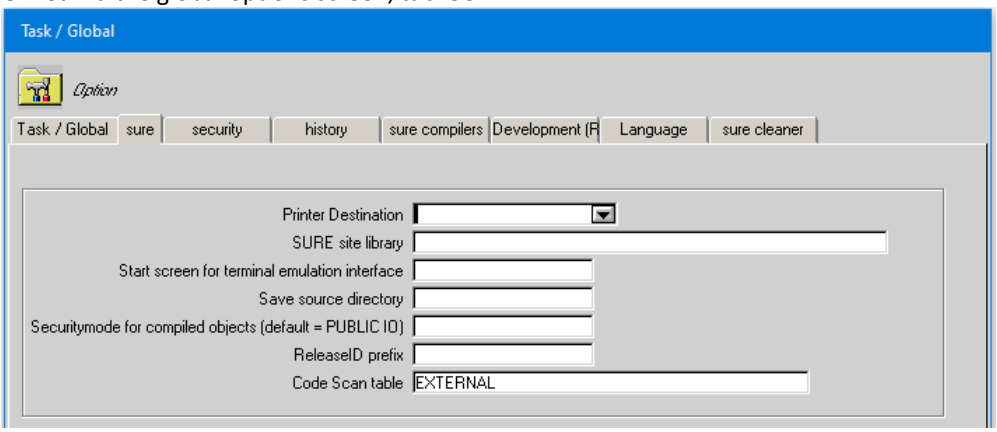
The purpose of the automatic code scanning feature is to scan a source after a check-in for words or tokens that should be avoided.

SURE has already an internal code scanner. It is possible to replace the internal code scanner by an external tool.

The Code Scan procedure

The code scanner: internal or external

The code scan table defines the internal code scan table or an external code scanner. The name of the table is defined via the global options screen, tab 'SURE':



- This example shows the definition of an external code scanner.
- If an external code scanner is used then field Code Scan table must have value 'EXTERNAL'
- If the internal code scanner is used then the name of the code scan table must be entered. The code can table can be an MCP file or a PC file. It must be loaded in SURE.

Option 'Automatic code scan after check-in'
Automatic code scanning can be enabled for a project on an environment or for a system on an environment:

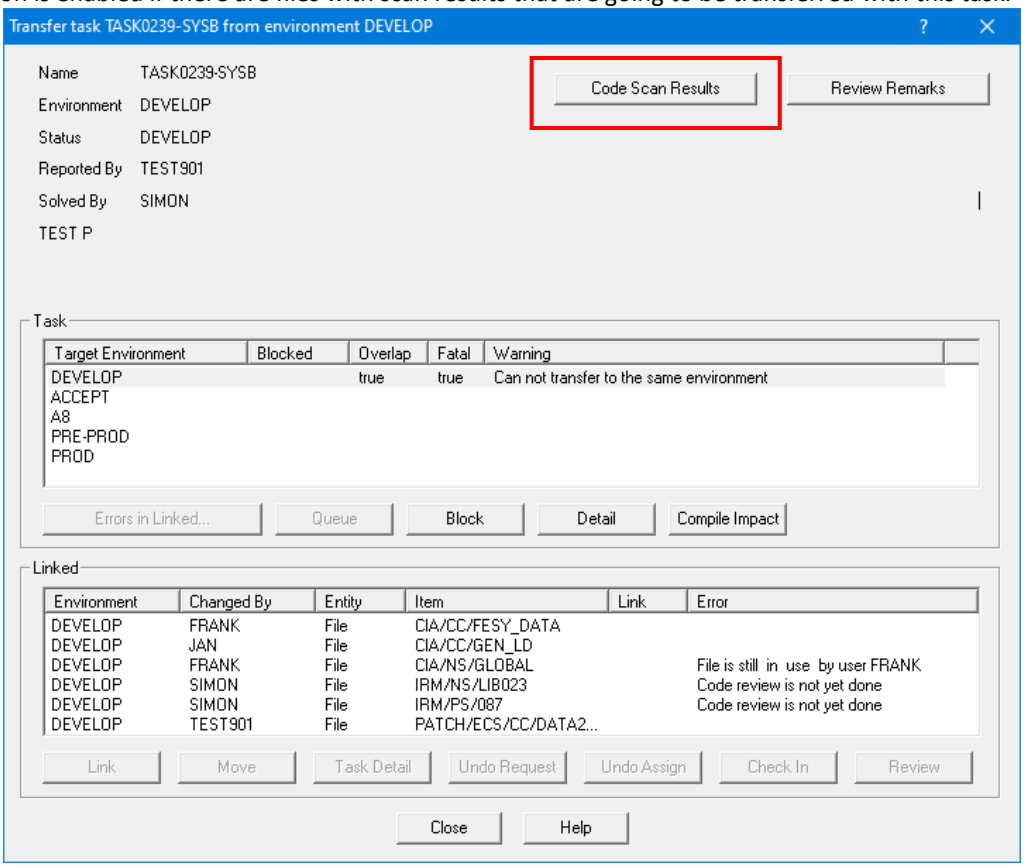
- If the option is defined for a system (via the project properties screen where project = system) then code scan functionality is enabled for all sources of that system.
- If the option is defined for a project (via the project properties screen (project is not system)) then code scan functionality is enabled for all sources of that project.

Automatic Code Scanning requires the definition of a code scan table: if no code scan table (or value EXTENAL) is defined then Automatic Code Scanning is disabled for all systems and projects

Viewing the code scan results for an individual source
Right click on a file → Miscellaneous → View code scan results

The file with Code Scan Results is copied from SURE to Cande and then file-transferred to Windows where it is opened in the correct viewer.

Viewing the code scan results for a (group of) task that must be transferred
The task transfer screen contains button [Code Scan Results] if a scan table is defined.
The button is enabled if there are files with scan results that are going to be transferred with this task.



The task transfer is not blocked by positive scan results.
The button is only available as a reminder that some of the sources contains words or constructions that should be avoided.

This function combines the Code Scan Results of all files that are linked to the task, and the combined file is placed on Cande and file-transferred to Windows where it is opened in the correct viewer.

This function is not yet implemented

Performing the automatic code scan via an EXTERNAL code scanner

The external code scan is triggered via a call of procedure SITE_EVENT (in the SURE site library) in the following cases:

- When a file is checked-in
- When a file is loaded in SURE by batch program RESPECT/SURE/LOAD
- When SURE function 'Resequence' is used
- When a quick-fix is reprocessed via function 'Apply Quick-fix'
- When one or more tokens are replaced in a file by RESPECT/SURE/REPLACE
- When the code scan is started manually via online function 'Start code scan'

Trigger a code-scan
Procedure SITE_EVENT is called with the following parameters

```
PROCEDURE SITE_EVENT
       (S_FILE,S_CLASS,S_PROG,S_FUNC,S_ENV,S_TASK,S_GROUP,S_USERID,S_TEXT);
VALUE   S_FILE,S_CLASS,S_PROG,S_FUNC,S_ENV,S_TASK,S_GROUP,S_USERID,S_TEXT;
STRING  S_FILE,S_CLASS,S_PROG,S_FUNC,S_ENV,S_TASK,S_GROUP,S_USERID,S_TEXT;
```

Parameter

S_FILE	The name of the source that must be scanned.
S_CLASS	"LOGUSER"
S_PROG	An indication which program of SURE triggered the code-scan. For example "SfW", "Replace", "Match", "Load", "Delivery".
S_FUNC	"Codescan"
S_ENV	The name of the SURE-environment
S_TASK	The name of the task that was used to modify the file. The task name is empty if the code scan was started manually via function 'Start code scan'.
S_GROUP	"FILE-CONTROL"
S_USERID	The name of the user who caused this event.
S_TEXT	This contains the following: <FileVersion><semicolon><SURE-function> - <FileVersion> = The current version number of the file, in the standard FileVersion layout: 'Version <nr>.<nr>'. - <SURE-function> = SURE-function that triggered the code scan. For example "Resequence", "Check-in", "Apply quick fix", "Load file", "Merge patch file".

The customer must adapt procedure SITE_EVENT to capture the event and to start a WFL-job that performs the External Code Scan process.

- The syntax to capture the Codescan event is: IF S_FUNC = "Codescan" THEN

The started WFL-job must perform the following actions:

- Copy the source from SURE to disk
  - RUN RESPECT/SURE/COPY("<source-name>")
- Start the external code scanner
- Load the file with the code scan results in SURE
  - RUN RESPECT/REPOSITORY("LOAD-CODESCAN-RESULT FILE <source-name> RESULT = <result-file> EXTENSION = <file-extension>")

Loading the Code Scan Result in SURE

The file with Code Scan Results must be loaded in SURE via batch function:

- RUN RESPECT/REPOSITORY("LOAD-CODESCAN-RESULT FILE <source-name> RESULT <result-file> EXTENSION = <file-extension>");
- Example:
  - Suppose that PROD/AAA is scanned and the CodeScanResult file is a PDF-file called SCAN-AAA.PDF then:
  - RUN RESPECT/REPOSITORY("LOAD-CODESCAN-RESULT FILE PROG/AAA RESULT SCAN-AAA EXTENSION = PDF");

The Code Scan Results can be cleaned in SURE as follows:

- RUN RESPECT/REPOSITORY("LOAD-CODESCAN-RESULT FILE <source-name> RESULT CLEAR");

About the CodeScanResult file:

- It can be any PC-file you want: PDF, DOCX, XLSX, et cetera
- The file-attributes must have the following file attributes:
  - EXTMODE = ASCII
  - FILESTRUCTURE = STREAM

    - FRAMESIZE = 8
    - MAXRECSIZE = 1
    - MINRECSIZE = 1
- Batch function LOAD-CODESCAN-RESULT aborts if the result file does not have MAXRECSIZE = 1
- We did our tests with a CodeScanResult file that was copied in Windows Explorer to the ClearPath_HOME_ directory

Performing the automatic code scan via the INTERNAL code scanner

The internal code scan is triggered in the following cases:

- When a file is checked-in
- When a file is loaded in SURE by batch program RESPECT/SURE/LOAD
- When SURE function 'Resequence' is used
- When a quick-fix is reprocessed via function 'Apply Quick-fix'
- When one or more tokens are replaced in a file by RESPECT/SURE/REPLACE
- When the code scan is started manually via online function 'Start code scan'

The source to be scanned is marked with relation CODE-SCAN(TO-CHECK)

Program RESPECT/SURE/FIND runs in the daily SURE batch and performs the code scan for all files with relation CODE-SCAN(TO-CHECK).

Online function 'View code scan results' starts immediately the code scan for that source

Task-1529-SURE Improve 'Build Successfully Done' notification of the Build Server

The SURE Build Server now creates a 'Build Completed' file to indicate that the build has completed successfully. This can be used when the Build Server must run unattended and is started (automatically) via a bat file.

The procedure is as follows:

- The Build Completed file is only created when the name of that file is defined via key COMPLETE=<filename> in section [BATCH] of the configuration file of the Build Server
- The SURE Build Server creates the Build Completed file when all build actions are done and the build results are saved in SURE.
- The bat file must remove the Build Completed file just before the SURE Build Server is started
- The bat file must check just after the run of the Build Server if the Build Completed file exists.
    - If the file exists then the Build Server completed successfully
    - If the file does not exist then the Build Server did not finish successfully

On the Windows server: where the SURE Build Server runs:

- Disable the option that a program crash shows the message box 'Debug or terminate the program', because that message box keeps the crashing process running, so a calling bat file cannot respond to its termination. The Build Server must be able to run fully unattended, disallowing message boxes from both the program and the operating system.
- Information on how to disable crash dialogs can be found via the following link:
  https://social.technet.microsoft.com/Forums/en-US/8e7a7f48-a65e-4cd5-a55a-a62e4f7604cc/disabling-crash-dialogs?forum=winservergen

Example

The definition of the Build Completed file in section [BATCH] of the configuration file of the Build Server:

```
[BATCH]
SERVER=SASCON
UNATTENDED=TRUE
ENVIRONMENT=DEVELOP
COMMAND=MAKE
MAKECOMMAND=C:\SURESERVER\SASCON\SCRIPT\DO_make.bat
COMPLETE=C:\SURE\SASCON\TEMP\Build_completed.txt
```

The content of the bat file that runs the SURE Build Server:

```
…
del C:\SURE\SASCON\TEMP\Build_completed.txt
C:\SURE\SASCON\RIS\BIN\AW_OBJ.EXE C:\SURE\SASCON\AW_OBJ_build.ini
if exist C:\SURE\SASCON\TEMP\Build_completed.txt (
  echo Build Server completed correctly
) else (
  echo Build Server has crashed
)
…
```

Alternatively, the bat file could use START to run the Build Server asynchronously and frequently check for the Build Completed file to appear or a maximum run time to be exceeded.

Task-1690-SURE Integration between SURE and ClearPath Visual IDE

Unisys ClearPath Visual IDE (CV-IDE) is a plugin for Microsoft Visual Studio 2017 or Microsoft Visual Studio 2019 to provide an integrated development environment to developers for creating projects, editing MCP symbol files, and building solutions using the familiar Visual Studio interface as they already use for C#, C++, ePortal, Agile Business Suite, and other languages.

It is possible to use CV-IDE in combination with SURE. The main features are:

- When an MCP file is checked out from SURE, that file is automatically opened in Visual Studio/CV-IDE.
- Compiling an MCP file from CV-IDE uses the compiler settings of that file as defined in SURE.

CV-IDE is a plugin for Microsoft Visual Studio for modifying MCP files. Visual Studio requires a solution file and project file, so using Visual Studio means that those files must be present.

If CV-IDE is defined in SURE as editor for MCP files, then the solution and project file are automatically created by SURE when an MCP file is checked out. SURE creates the solution and project file based on predefined templates.

The interface between SURE and CV-IDE work as follows:

SURE Function	Behavior
Check Out	The source file is checked out and copied as MCP work file from SURE to the users Cande work location. The MCP work file is then copied from Cande to the workspace for Visual Studio as local 'xxx_m' work file (xxx_m is the file extension, where xxx depends on the filekind). Each local work file has its own separate workspace for Visual Studio. This file is a "placeholder", it must be present, but changes in this local work file are automatically synchronized with the Cande work file by the Visual Studio CV-IDE plugin. SURE creates a solution file and a project file, both in the same workspace as the local work file. If "Edit/Open" is selected, the solution file is opened in Visual Studio/CV-IDE, and the local work file is shown in its editor window.
Edit	The file is already checked-out. The solution file is opened in Visual Studio/CV-IDE, and the local work file is shown in its editor window.
Local Compile	The developer can start a local compile from Visual Studio/CV-IDE. The compilation is executed by SURE job WFL/<environment>/COMPILE. This job uses the compilation parameters that are defined for the file in SURE, which includes binding, a deviating object name, a user defined post compilation process, et cetera.
Check In	If the ini file (AW_OBJ.INI) contains option [CVIDE]CHECK=<lock file>, then SURE gives an error message if the local work file is still open in Visual Studio. The local work file must be saved in Visual Studio and the solution must be closed, so that the MCP work file is certain to be synchronized with the local work file.

The MCP work file is saved in SURE and removed from Cande.

If the ini file (AW_OBJ.INI) contains option [CVIDE]REMOVE=<subdir>, then the local files in this directory are removed. Currently, this option should be REMOVE=.vs, as this .vs subdirectory of the workspace directory is created by Visual Studio/CV-IDE itself and contains a temporary file cache that can safely be removed along with the workspace.

Undo Checkout If the ini file (AW_OBJ.INI) contains option [CVIDE]CHECK=<lock file>, then SURE gives an error message if the file is still open in Visual Studio.

The MCP work file is removed from Cande.

If the ini file (AW_OBJ.INI) contains option [CVIDE]REMOVE=<subdir>, then the local files in this directory are removed.

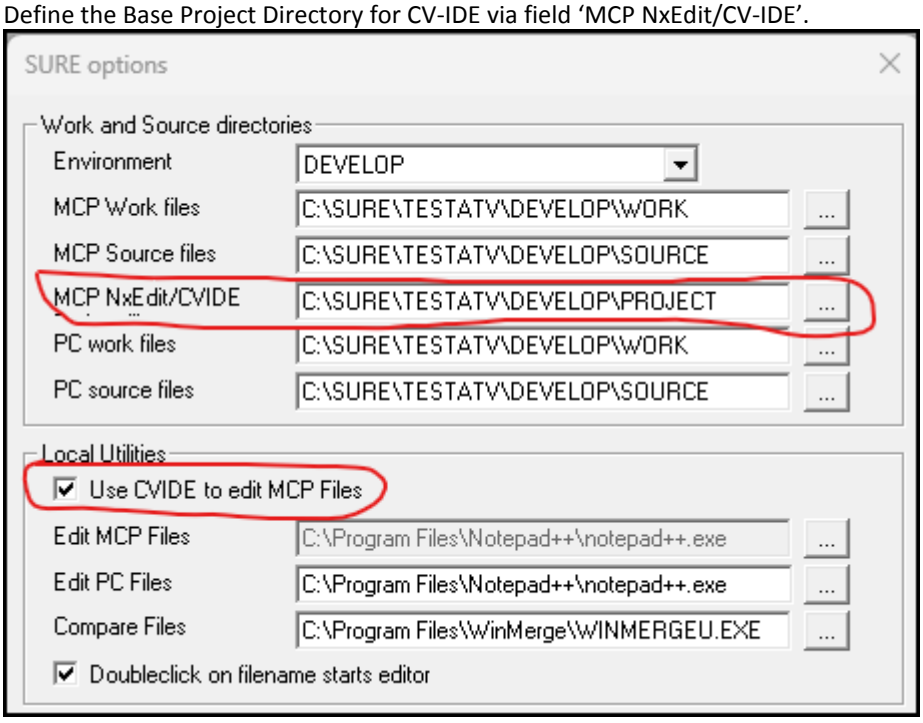
Configuration

Using CV-IDE in combination with SURE requires that templates for the Solution and Project files for Visual Studio are loaded in SURE. Once the templates are loaded in SURE they are available for all users and all MCP files. Read paragraph 'Templates for Solution and Project files' for details how to load the templates.

Each developer who wants to use CV-IDE must set the following local options via function:

Toolbar → Options → SURE options:

1. Enable SURE GUI option 'Use CV-IDE to edit MCP files'.
2. Define the Base Project Directory for CV-IDE via field 'MCP NxEdit/CV-IDE'.



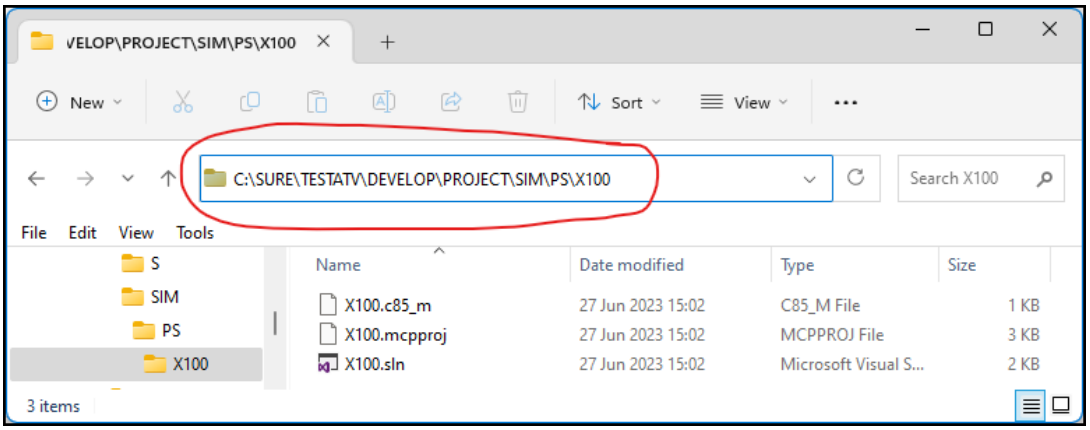
   - About the project directory: read paragraph 'Workspace for Visual Studio' for details.

Workspace for Visual Studio

When a file is checked out, SURE creates a separate working environment for that file for Visual Studio. This separate workspace is a subdirectory of the Project Directory. The Project Directory is defined via Toolbar → Options → SURE options → field MCP NxEdit/CV-IDE.

The full name of the Visual Studio workspace of a file is: <Project Directory>/<file name>

Example
Suppose the Project Directory is defined as C:\SURE\TESTATV\DEVELOP\PROJECT, and Cobol85 file SIM/PS/X100 is checked out:



- The base project directory is C:\SURE\TESTATV\DEVELOP\PROJECT
- The file name is SIM/PS/X100, so the subdirectory is SIM\PS\X100.
- The Visual Studio workspace for this file: C:\SURE\TESTATV\DEVELOP\PROJECT\SIM\PS\X100

- The following files are created by SURE, based on the last node of the file name:
  The solution file: X100.sln
  The project file: X100.mcpproj
  The local work file: X100.c85_m

Visual Studio creates additional files in the workspace when the solution is opened.

Options in the AW_OBJ.INI file

The following options can be defined in the AW_OBJ.INI file to improve the integration between CV-IDE and SURE:

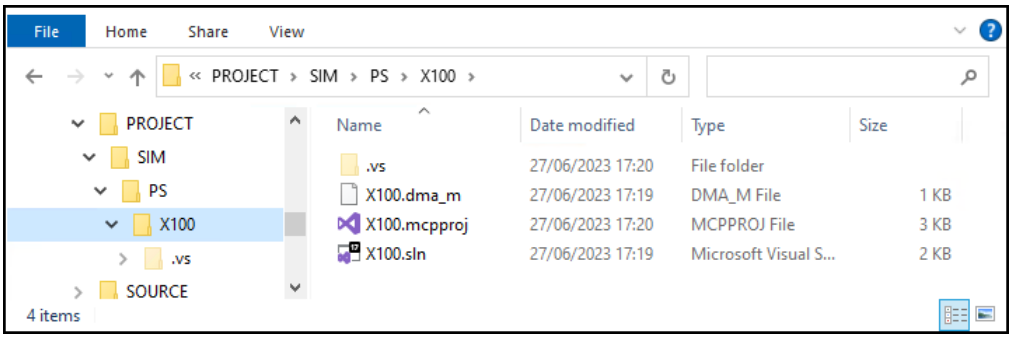
```
[CVIDE]
REMOVE=.vs
CHECK=.vs\<LASTNODE>\FileContentIndex\read.lock
```

Option [CVIDE]REMOVE=<name of subdirectory>
The purpose of this option is to remove the Visual Studio workspace of the file after the file is checked in or when undo checkout is used, to keep the base project directory clean.

By default, the Visual Studio/CV-IDE workspace is **not** removed when a file is checked in.

Notice that all files in the workspace are temporary files and can be removed if the file is not in maintenance:

- The solution and project files are based on templates and will be (re)created at check out.
- The local work file is a copy of the MCP source that is checked out from SURE and placed in the user's Cande work environment: (<usercode>) ON <work pack>. If the local work file is lost, it can be recreated via CV-IDE from the MCP source.
- All other files are (re)created by Visual Studio when they are lost.
- Version 17 of Visual Studio creates these other files in subdirectory .vs



If this option is enabled, then the behavior at check in is the same as when CV-IDE is not used.

If CV-IDE is **not** used the behavior is as follows:

- At check out: the file is copied from SURE to Cande.
- At check in: the MCP work file is saved in SURE and removed from Cande.

If CV-IDE is used the following happens:

- At check out:
  - The file is copied from SURE to Cande
  - The MCP work file is then copied from Cande to the workspace for Visual Studio as local 'xxx_m' work file (xxx_m is the file extension, where xxx depends on the filekind).
  - The solution and project files are created and copied to the workspace.
- At check in:
  - The local work file must first be saved in Visual Studio, to synchronize the MCP work file with the local work file.
  - The MCP work file is saved in SURE and removed from Cande.
  - If option [CVIDE]REMOVE=<subdirectory> is defined, then the following files are removed:
    - The solution and project files.
    - The local 'xxx_m' work file.
    - The <subdirectory> and all files in that subdirectory.
    - If the workspace is completely empty, then the workspace directory is removed too.
  - If (another version of) Visual Studio creates extra files or subdirectories, then those names can be added as comma separated nodes in the [CVIDE]REMOVE=<subdirectory-or-file-1>,<subdirectory-or-file-2>… setting.

The benefit of this option:

- The Project Directory remains small. Only the files that are checked out from SURE have a workspace in the project directory.

Option [CVIDE]CHECK=<name of read lock file>

The purpose of this option is to check if the solution is still open in Visual Studio when SURE function Check In or Undo Checkout is used.

Visual Studio creates a read lock file in the workspace when the solution opens for the first time and keeps that file locked as long as the solution is open.

- In Visual Studio 2019, the name of the read lock file is .vs\<LASTNODE>\FileContentIndex\read.lock
- <LASTNODE> is the last node of the MCP file.

If the option is defined and the solution is still open in Visual Studio when SURE function Check-In or Undo Checkout is used, then SURE gives the error message 'Solution is open in Visual Studio'.

If the name of the read lock file is changed in another (newer) version of Visual Studio, then the option must be changed in AW_OBJ.INI as well.

The benefits of this option:

- A developer cannot forget to save his work file in Visual Studio before he does the check in.
- If the solution is closed, then none of the files in the workspace is in use. This means that the workspace can be removed after check-in or undo checkout (see option [CVIDE]REMOVE=<subdir>).

Templates for Solution and Project files

CV-IDE is a plugin for Microsoft Visual Studio for modifying MCP files. Using Visual Studio means that a solution file and a project file must be present. With CV-IDE, the solution file has extension SLN, and the project file has extension MCPPROJ.

If CV-IDE is defined in SURE as editor for MCP files, then the solution and project file are automatically created by SURE when an MCP file is checked out. SURE creates the solution and project file based on predefined templates.

The templates must be loaded into SURE once via one of the following functions:

- From Cande: RUN RESPECT/REPOSITORY("LOAD-CVIDE-FILES")
- From SURE: Toolbar → Tools → Server environment → Batch functions → LOAD-CVIDE-FILES → Start.

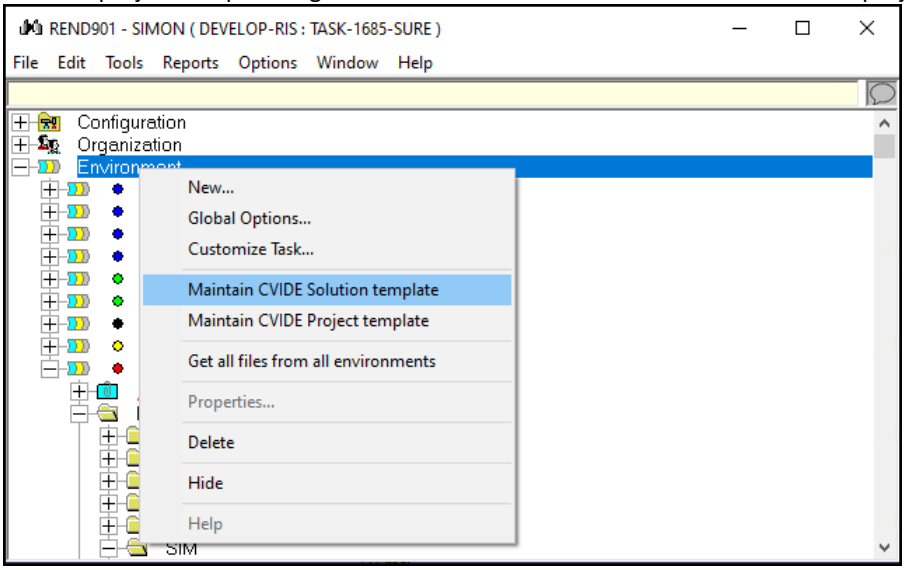
Once the templates have been loaded into SURE, they are ready for use at check out.

Customizing the template files

The template files are generic and are used during check out of any MCP file to create the solution and project file for that MCP file.

It is possible to customize the Solution or Project Templates, and to reset them to their default content by running RUN RESPECT/REPOSITORY("LOAD-CVIDE-FILES") again.

To customize the solution template: right click on folder Environment → Maintain CVIDE solution template.
To customize the project template: right click on folder Environment → Maintain CVIDE project template.



- The content of the template is shown in a continuation screen where it can be changed.
- The two menu choices are only visible if option 'Use CV-IDE to edit MCP files' is enabled.

The templates contain some SURE tokens that are replaced by the actual MCP name, filename, username, et cetera, when the solution and project files are created.
The following SURE tokens are recognized:

SURE token	Replaced by
<HOSTNAME>	The name of the MCP where the file is checked-out
<PACK>	The pack name where the file is checked-out
<USERCODE>	The usercode where is file is checked-out
<ENVIRONMENT>	The SURE environment where the file is checked-out
<SOURCENAME>	The name of the checked-out file
<LASTNODE>	The last node of the file name
<EXTENSION>	The file extension of the local source that is loaded in CV-IDE
<OBJECTNAME>	The name of the compiled object (as defined in SURE)
<OBJECTPATH>	The path of the compiled object (all directories except the last node)
<SYSTEM	The system of the file (as defined in SURE)
<PROJECT>	The project of the file (as defined in SURE)

Example
Suppose that cobol85 file SIM/PS/X100 is checked out in environment DEVELOP to usercode (SIMON) on pack PK1 at host CPMCP1. The object name is SIM/PO/X100.
The SURE tokens are then replaced as follows:

SURE token	Replaced by
<HOSTNAME>	CPMCP1
<PACK>	PK1
<USERCODE>	SIMON
<ENVIRONMENT>	DEVELOP
<SOURCENAME>	SIM/PS/X100
<LASTNODE>	X100
<EXTENSION>	c85_m
<OBJECTNAME>	SIM/PO/X100
<OBJECTPATH>	SIM/PO

Possible reasons to customize the template files.

The solution template:

- The current template creates a Visual Studio version 17 compatible file (for Visual Studio 2019). You may have to change the template's version if you use a newer version of Visual Studio with a newer solution version.

The project template:

- Tag MCPBuildType has value 'Custom'.
  - This triggers SURE compile job WFL/DEVELOP/COMPILE.
  - Change the value of tag MCPBuildType to 'default' if you want to have the same behavior as Cande command COMPILE.

- Tag MCPJobFilePath has value: ??<HOSTNAME>/<PACK>/*WFL/<environment>/COMPILE.
  - This triggers for environment DEVELOP SURE compile job WFL/DEVELOP/COMPILE.
  - You can change the value of tag MCPJobFilePath to the name of your own compilation job.
  - In that case you also must change the values of tags MCPWflParam and MCPJobFileErrorFileName.

Task-1695-SURE Improvements for Task Reference

SURE has the following options for Task Reference

1. Options to make task reference a required field for a specific environment.
2. Option to validate the entered task reference.

If the task reference is required for an environment, then it is not possible to transfer a task without a reference to that environment.
The task reference is visible (and changeable via a button) on the task transfer screen.

Options to make Task Reference a required field.

Option 'task reference required' must be enabled for the environment where the reference is required.

- If the option is enabled, then it is not possible to transfer a task without reference to that environment.
- Once the task has arrived at the environment, the reference cannot be turned off.

Example

Consider the following configuration and behavior:

Environment	Task reference required
DEVELOP	
TEST	
ACCEPT	yes
PROD	

- A task can be entered in SURE without a reference.
- The task can be transferred from DEVELOP to TEST without a reference.
- If the task is transferred to ACCEPT then the reference is required.
- If the task has status ACCEPT or status SOLVED (after transfer to PROD), then the reference cannot be emptied.
- If the task is reactivated to DEVELOP then the reference can be turned off, but then the reference must be turned on again at the next transfer to ACCEPT.

How to enable the option

Option Task Reference Required can be enabled at the following levels:

1. Environment
    - Right click on <environment> ➔ Properties ➔ tab Environment
    - The task reference is required when any task is transferred to that environment.

2. System on environment
    - Folder Configuration ➔ System ➔ <environment> ➔ <system> ➔ Right click on <system-project> ➔ Properties.
    - The task reference is required when a task of that system is transferred to that environment.

3. Project on environment
    - Folder Configuration ➔ System ➔ <environment> ➔ <system> ➔ Right click on <project> ➔ Properties.
    - The task reference is required when a task of that project is transferred to that environment.

4. File-type on environment
    - Folder Configuration ➔ Task-type ➔ Right click on <task-type> ➔ Properties ➔ tab Miscellaneous.
    - The task reference is required when a task with that file-type is transferred to that environment.

Option to validate the task reference that is entered on the screen.

The entered task reference can be validated via procedure SITE_TASKREF in the SURE site library.

The task validation is only enabled if the SURE site library is active and procedure SITE_TASKREF is exported in the site library.

The following is an example of procedure SITE_TASKREF where each reference number must start with 'ABC'.

```
STRING PROCEDURE SITE_TASKREF
           (S_SYS,S_PRJ,S_TPE,S_REF);
    VALUE   S_SYS,S_PRJ,S_TPE,S_REF;
    STRING  S_SYS,S_PRJ,S_TPE,S_REF;
BEGIN
 % Use this function to validate the task-reference
 % Input:
 %    S_SYS = the task-system  (if the reference depends on a system)
 %    S_PRJ = the task-project (if the reference depends on a project)
 %    S_TPE = the task-type    (if the reference depends on the type)
 %    S_REF = the task-reference
 % Response:
 %    The procedure result = an error message if the reference is wrong
 % Example:
 %    DISPLAY("SITE_TASKREF:"!!S_SYS!!","!!S_PRJ!!","!!
 %                           S_TPE!!","!!S_REF);
 %    IF TAKE(S_REF!!"   ",3) NEQ "ABC" THEN
 %       SITE_TASKREF := "Invalid task reference";
END;


EXPORT SITE_TASKREF;
```

Via the SURE site library it is also possible to do a call on another application system to verify the reference number.

3 New or deleted batch programs and batch functions

This paragraph gives a summary of the changed batch functions

All these batch function can be started via Toolbar → Tools → Server environment -> Batch functions

RESPECT/PRINT

new	HELP <function>	Show the options of the mentioned function
new	CHANGES-FOR-TASK	Make a list with all the changes that are made for a task: the delta-files of the changed sources.
new	COUNT-INFO	Make an overview of the types of information that is stored in SURE

RESPECT/REPOSITORY

new	HELP <function>	Show the options of the mentioned function
new	CLEAN-RENAMEDELETED	Clean the 'renamed and deleted' info. This info is used by a SURE build server to remove renamed and deleted sources from the build directory
new	LOAD-CODESCAN-RESULT	Load the result file of an external code scanner in SURE
upd	LOAD-SOURCE	New option REMOVE to remove the file from disk after it is loaded in SURE

Task			Status	Date ready	Release

4 Overview of tasks completed in release 100

TASK-1299-SURE	Received	18 Oct 2019	SOLVED	18 Nov 2019	at 100
	Reported by	BBL			
	Type	FEATURE			
	Project	SURE			

New feature: Support for 4-eyes code review after check-in

Solution: See the task explanation form or the task attachment in SURE for detailed information

TASK-1301-SURE	Received	23 Oct 2019	SOLVED	27 Oct 2019	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

Improve routing of batch reports

Solution: The following general rules apply for the way how SURE batch listings are routed. These reports are created by a SURE batch program

The file name of a SURE-listing (the printer backupfile) is: BATCHOUTPUT/<yyyymmdd>/<hh-mm-ss>_<report-id>
For example: BATCHOUTPUT/20191128/18_04_06_DEPLOY/TASK0123

The location of a SURE listing file is the 'SURE Batch Location' of an environment: the usercode and packname where the SURE evening batch runs. This location is defined via tab 'SURE batch' of the screen with environments options, which means that each SURE environment has its own Batch Location. Old SURE listing files are automatically removed from this location when they are expired. This expiration period is also defined on tab 'SURE batch' of the environment options.

The available listings are visible in the SURE browser via folder: <Environment-name> => SURE server => Batch Reports

A listing can be opened by function: Right click on listing name => Download

EMAILING
It is also possible to email SURE reports when they are created. The following general rules apply for emailing:

If the batch program is started with extra parameter 'PRINTER = EMAIL' then the output is sent to the user who started the batch program, but only if that user has an email address.

If the batch program is NOT started with extra parameter 'PRINTER = EMAIL' then the output is sent to the user who started the batch program, but only if that user has an email address and 'Printer Destination = EMAIL'.

It is also possible to define a fixed email destination for the <report-id> (where the report-id is truncated at a slash '/') . The fixed email destination can be a team, an employee-function or a customer. If the emp-func, team or customer has an email address then that email address is used, otherwise the report is sent to all users with that function or team (and a valid email address)

The fixed email destination for the report can be defined globally (for all environments) or for a specific environment.

Task			Status	Date ready	Release

The following relation determines a fixed email destination:
Environment = <environment>
Group = OPTION
Owner = <report-id>
Class = EMAIL-TO
Asset = <employee-function or team or customer>

In addition to these general rules for email routing: Task-deployment-overviews and Compilation-syntax-overviews can be sent to project leaders and environment administrator (users who are responsible for project, system or environment)
See the task explanation form or the task attachment in SURE for detailed information

TASK-1303-SURE	Received	1 Nov 2019	SOLVED	18 Nov 2019	at 100
	Reported by	ITSforSURE			
	Type	FEATURE			
	Project	SURE			

New feature: Support for automatic code scanning after check-in

Solution: See the task explanation form or the task attachment in SURE for detailed information

TASK-1304-SURE	Received	3 Nov 2019	SOLVED	30 Nov 2019	at 100
	Reported by	UOFW			
	Type	FEATURE			
	Project	SURE			

SURE creates a detailed deploy overview for each task that is compiled and deployed. It is also possible to email these overviews automatically to the responsible persons.

Solution: See the task explanation form or the task attachment in SURE for detailed information

TASK-1313-SURE	Received	27 Nov 2019	SOLVED	7 Jan 2020	at 100
	Reported by	BBL			
	Type	ERROR			
	Project	SURE			
	Severity	SEVERE			
	Probability	POSSIBLE			

If SSL encryption on the SURE client/server interface is enabled and we do a halt/load, then the SURE server does not respond automatically after the halt/load. We first have to disable/enable program SURE in COMS.

Solution: The SURE-server (program RIS/API/DCIS) checks if the SSL-encrypted port file is opened correctly, and does a retry after 1 minute until the port file is successfully opened.

TASK-1320-SURE	Received	3 Dec 2019	SOLVED	6 Aug 2020	at 100, 90
	Reported by	LEMANS			
	Type	IMPROVEMENT			
	Project	SURE			

Maintenance via patch-files: add more tracing into the trace-merge file

Task			Status	Date ready	Release
TASK-1322-SURE	Received	9 Dec 2019	SOLVED	3 Mar 2020	at 100
	Reported by	ORDINA			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	POSSIBLE			
	SURE backend on Windows: cannot open task-attachments with long names				
TASK-1326-SURE	Received	11 Dec 2019	SOLVED	13 Dec 2019	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			
	Set the release number to 100.1				
TASK-1328-SURE	Received	18 Dec 2019	SOLVED	19 Dec 2019	at 100, 90
	Reported by	RVA			
	Type	ERROR			
	Project	SURE			
	Severity	SEVERE			
	Probability	RARE			
	The SURE build server stops doing anything after a time-out				
Solution:	This was caused by a time-out of a long-during transaction				
TASK-1329-RFW	Received	19 Dec 2019	SOLVED	2 Jan 2020	at 100, 90
	Reported by	BBL			
	Type	IMPROVEMENT			
	Project	SURE			
	Change handling of Open Repository for DATA\CONFIG to ensure it is always R/O				
TASK-1330-SURE	Received	2 Jan 2020	SOLVED	2 Jan 2020	at 100, 90
	Reported by	BBL			
	Type	IMPROVEMENT			
	Project	SURE			
	Function 'Code review': close the 'Set Reviewed' screen automatically at [Approve] if there is no other review required (for another task)				

Task			Status	Date ready	Release
TASK-1332-SURE	Received	10 Jan 2020	SOLVED	22 Jan 2020	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	POSSIBLE			

Select function: unhighlighting sometimes fails.

Under 'Select...' nodes are added if a second Select result list is added to an earlier one.
These new nodes are then marked as 'selected' and highlighted as such.
When clicking a node outside the selection after that, these highlighted nodes should be unselected and unhighlighted.
Sometimes this unhighlighting does not occur and nodes remain highlighted while they are being unselected.

TASK-1333-SURE	Received	12 Jan 2020	SOLVED	12 Jan 2020	at 100
	Reported by	ORDINA			
	Type	IMPROVEMENT			
	Project	SURE			

Function 'Add new file(name)': eliminate some unnecessary and confusing warnings

Solution: Do not give a warning if the file-name is created via a naming-standard and the file-extension is not the same as the entered file-type.

TASK-1334-SURE	Received	14 Jan 2020	SOLVED	14 Jan 2020	at 100, 90
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

Load the initialized RIS\DATA\CONFIG files in SURE

TASK-1335-SURE	Received	17 Jan 2020	SOLVED	17 Jan 2020	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	RARE			

Crash with 'String Protect' in function ODT

TASK-1336-SURE	Received	20 Jan 2020	SOLVED	22 Jan 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Function Compile Interface: make it possible to filter the response on a specific Build-Server

Solution: This is implemented via button [Select Build Server] on the Compile Interface screen.

Task			Status	Date ready	Release

Notice that this button works only for PC-files: PC-files with another build server are suppressed, but MCP files are not filtered.

Function 'Purge Queue' in combination with a specific build server clears the Build Queue only for that build server (and it clears the compile queue of the MCP file).
See the task explanation form or the task attachment in SURE for detailed information

TASK-1337-SURE	Received	21 Jan 2020	SOLVED	22 Jan 2020	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

Remove some no longer necessary tracing

TASK-1338-SURE	Received	21 Jan 2020	SOLVED	21 Jan 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Sure Build: the file-delete on rename is not case sensitive

Solution: If a PC-source is deleted or renamed in SURE then that source is also deleted from the build server (at the next build). But the delete on the build server is now skipped if (a part of) the source name is only renamed from upper- to lowercase or vice-versa.

TASK-1341-SURE	Received	23 Jan 2020	SOLVED	23 Jan 2020	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

Function Multi Relate: pre-fill the screen with the parameters of the previous multi relate

Solution: The parameters of the previous multi relate are kept in the INI file

TASK-1342-RFW	Received	23 Jan 2020	SOLVED	30 Jan 2020	at 100, 90
	Reported by	BBL			
	Type	IMPROVEMENT			
	Project	SURE			

Set file time and change file R/O status may fail without notice on virtualized file systems.

Solution: Upon detection that a set file time or change file R/O call has not actually performed the request, because the file has not been changed in the appropriate way, wait 500 ms and retry the call.

TASK-1343-SURE	Received	23 Jan 2020	SOLVED	23 Jan 2020	at 100
	Reported by	SNS			
	Type	ERROR			
	Project	SURE			

Task			Status	Date ready	Release
	Severity	MINOR			
	Probability	CERTAIN			

A renamed directory remains visible in the SURE-browser when the rename is not done for all environment

Solution: The old directory name is now only visible in the SURE-environments where the rename is not yet done.
The new directory name is now only visible in the SURE-environments where is rename is already done.

TASK-1347-SURE	Received	4 Feb 2020	SOLVED	4 Feb 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Function 'Reprocess quick-fix': if only 1 source is linked to the quick-fix task, then allow to change the environment so that you can apply the fix directly on other environments

TASK-1348-RIS	Received	4 Feb 2020	SOLVED	4 Feb 2020	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

Improve the speed of function 'Drop down box value'

TASK-1349-RIS	Received	5 Feb 2020	SOLVED	9 Feb 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

The drop-down list of Projects does not refresh automatically when a new project is introduced. Have to restart SfW

TASK-1350-SURE	Received	7 Feb 2020	SOLVED	14 Feb 2020	at 100, 90
	Reported by	BBL			
	Type	IMPROVEMENT			
	Project	SURE			

Sometimes it is necessary to disable/enable the Kerberos-software. SURE does not handle this situation correctly, and we have to disable SURE and thaw RIS/API/LIB to continue. SURE should notify the case and reset the Kerberos interface automatically

TASK-1352-SURE	Received	11 Feb 2020	SOLVED	13 Feb 2020	at 100, 90
	Reported by	RVA			
	Type	ERROR			
	Project	SURE			
	Severity	SEVERE			

Task			Status	Date ready	Release
	Probability	POSSIBLE			
	SURE backend on Windows: put copy file in 'Stable Resource Location' fails if an old version of the file is already resident with attribute 'Readonly' enabled				
TASK-1353-SURE	Received	11 Feb 2020	SOLVED	26 Mar 2020	at 100, 90
	Reported by	UOFW			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	POSSIBLE			
	Deploy overview: a driver is sometimes reported on the ad hoc overview, but should be reported on the overview of the task that was used to change bind objects				
TASK-1354-SURE	Received	11 Feb 2020	SOLVED	11 Feb 2020	at 100, 90
	Reported by	UOFW			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	POSSIBLE			
	Deploy overview: the time-stamp that the source was added to the compile queue cannot be older than the timestamp of the previous deployment				
TASK-1355-SURE	Received	12 Feb 2020	SOLVED	19 Feb 2020	at 100, 90
	Reported by	BBL			
	Type	FEATURE			
	Project	SURE			
	Allow the use of environment variables in INI entries for file / directory names				
Solution:	INI entries [GLOBAL] TRACE= [SURE] DOWNLOAD= [<environment-name>] SOURCEDIRECTORY= WORKDIRECTORY= PROJECTDIRECTORY= PCSOURCEDIRECTORY= PCWORKDIRECTORY= can now contain environment variable references such as %localappdata% and . and .. nodes.				
TASK-1357-SURE	Received	14 Feb 2020	SOLVED	14 Feb 2020	at 100, 90
	Reported by	ITSforSURE			

Task			Status	Date ready	Release
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	CERTAIN			
	The COMPILE-overview does not show the content of waiting integrity tables				
TASK-1358-SURE	Received	17 Feb 2020	SOLVED	17 Feb 2020	at 100, 90
	Reported by	BBL			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	LIKELY			
	SURE gives suddenly a strange error message when we try a create a second patch file for a source				
TASK-1361-SURE	Received	19 Feb 2020	SOLVED	19 Feb 2020	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	RARE			
	Query to right pane crashes if first result in query list does not have an entity type				
TASK-1362-SURE	Received	19 Feb 2020	SOLVED	19 Feb 2020	at 100, 90
	Reported by	RVA			
	Type	IMPROVEMENT			
	Project	SURE			
	Make a batch-function to clean the 'renamed and deleted' info that is used by a build server				
TASK-1363-SURE	Received	3 Mar 2020	SOLVED	4 Mar 2020	at 100
	Reported by	ITSforSURE			
	Type	FEATURE			
	Project	SURE			
	Introduce based directories in INI file, improve support for environment variables and enhance flexibility of use of backslashes at the end of directory names in INI file.				
TASK-1364-SURE	Received	3 Mar 2020	SOLVED	29 Jun 2020	at 100
	Reported by	SNS			
	Type	ERROR			
	Project	SURE			
	Severity	SEVERE			

Task			Status	Date ready	Release
	Probability	RARE			
	Windows backend: The SURE-batch hangs in a 'deadly embrace' when a second batch is started while the first batch is not yet completed				
TASK-1367-SURE	Received	11 Mar 2020	SOLVED	11 Mar 2020	at 100
	Reported by	ORDINA			
	Type	IMPROVEMENT			
	Project	SURE			
	SURE backend on Windows: make it possible to define an alternative script-name that handles email-send requests				
Solution:	The alternative script name can be defined via the following option in the config file: SCRIPT-SEND-EMAIL=<name-of-the-script>				
TASK-1369-SURE	Received	16 Mar 2020	SOLVED	28 Apr 2020	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			
	Improve the internal task screen to eliminate the external task screen				
Solution:	The new task screen replaces the old (external) task screen. The advantages of the new task screen are: - It is not a separate program anymore, and that improves the performance. - An installation of the SURE-GUI does not require the .net-framework. - The new task screen does not require specific registry entries, which makes the installation easier. All functionality of the external task screen is also available on the new task screen. The site-specific task fields are now directly visible on the screen (and not hidden behind a button). Button [Print] creates a task report, similar as function Toolbar => Reports => Print task form Button [Help] gives the help information, this explains the following: - A brief description of each field on the screen - How to customize the task screen - The different methods how to enter a new task, and the required fields for each method See the task explanation form or the task attachment in SURE for detailed information				
TASK-1370-SURE	Received	23 Mar 2020	SOLVED	25 Mar 2020	at 100, 90, 80
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			
	Create the default INFDB description file for DMS release 601				
TASK-1371-SURE	Received	27 Mar 2020	SOLVED	29 Mar 2020	at 100, 90

Task			Status	Date ready	Release
	Reported by	BBL			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	RARE			

The list with Batch Reports shows repeatedly the same file-names.

Solution: This happened when there are more than 126 batch reports in a directory

TASK-1372-SURE	Received	31 Mar 2020	SOLVED	14 Apr 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

SURE backend on Windows: the SURE-scheduler must check the number of active LFIXX stacks and start an extra LFIXX if necessary

Solution: The SURE-Scheduler checks every 2 seconds if all required LFIXX and FTPXX programs are still active. The number of required programs is defined in the config-file via options NUMBER-LFIXX and NUMBER-FTPXX.

The LFIXX programs handle the transaction requests. These programs are connected to the database
The FTPXX programs handle the file-transfer requests. These programs are not connected to the database.

If some required programs are not active then the following is done:
1. All still running LFIXX programs are stopped.
2. All required LFIXX and FTPXX programs are restarted by the SURE-Scheduler.

If the SURE-Scheduler has restarted required programs for more than 5 times in the last two minutes then there is a serious issue in the SURE backend or in the environment of the SURE backend. It can be a network issue, an issue with the Microsoft Message Queues, a database problem, or something else. In that case the entire SURE backend is automatically terminated by the SURE-Scheduler, and the SURE backend must be restarted manually after the problem is investigated and solved.

An automatic close of the SURE backend is reported in the log files (Scheduler.log and SURESERVER.log) as follows:

```
2020/04/01 19:55:49 Restart 1 LFIXX.exe
2020/04/01 19:55:53 Restart 1 LFIXX.exe
2020/04/01 19:55:57 Restart 1 FTPXX.exe
2020/04/01 19:56:00 Restart LFIXX.exe OBJLOC
2020/04/01 19:56:03 Restart LFIXX.exe IMPACT
2020/04/01 19:56:06 ******************************************************
2020/04/01 19:56:06 *
2020/04/01 19:56:06 *   Fatal errors in the SURE-backend:
2020/04/01 19:56:06 *         Programs crashed multiple times
2020/04/01 19:56:06 *
2020/04/01 19:56:06 *   5 Restarts in 2 minutes did not resolve the issue
2020/04/01 19:56:06 *
2020/04/01 19:56:06 *   The complete SURE backend is now stopped
2020/04/01 19:56:06 *
2020/04/01 19:56:06 *   - Contact the SURE administrator
2020/04/01 19:56:06 *   - Check the status of the Database and Message Queues
2020/04/01 19:56:06 *   - Fix the issue before you restart the SURE-backend
2020/04/01 19:56:06 *
2020/04/01 19:56:06 ******************************************************
```

The above example log shows 5 restarts of required programs, and at the 6th time the Scheduler decides to terminate the SURE backend.

Task			Status	Date ready	Release
TASK-1373-SURE	Received	2 Apr 2020	SOLVED	2 Apr 2020	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

SURE backend on Windows: 2 new methods to restart the SURE-backend software

Solution: ODT command RESTART-ONLINE
- This command restarts the SURE backend immediately

SURESERVER.CONFIG option RESTART-ONLINE=hh:mm
- This option restarts the SURE backend automatically every day at the indicated time stamp.
- The syntax of the timestamp must be <hours in 2 digits><colon><minutes in 2 digits>

TASK-1374-SURE	Received	3 Apr 2020	SOLVED	7 Apr 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

SURE backend on Windows: the SURE-server must send a proper error message to the user in case of a crash in an FDM.

TASK-1378-SURE	Received	7 Apr 2020	SOLVED	8 Apr 2020	at 100, 90
	Reported by	UOFW			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	POSSIBLE			

Deploy overview: a renamed file is compiled and deployed, but it appears on the ad-hoc deploy overview and not on a deploy overview of a task

Solution: The rename function checks from now on always for a current task, also if the rename is done for all environments.

If the rename is done for 1 environment then the rename-action and the file are linked to the task and the task is used as compile-reason for the renamed file.

If the rename is done for all environments then nothing is linked to the task but the task is used as compile-reason for the renamed file in all the environments where the rename is done.

TASK-1379-SURE	Received	8 Apr 2020	SOLVED	8 Apr 2020	at 100
	Reported by	ORDINA			
	Type	IMPROVEMENT			
	Project	SURE			

SURE backend on Windows: functions Delete- and Create-Environment' mention the name of an MCP-job instead of the Windows-job

Task			Status	Date ready	Release
TASK-1381-SURE	Received	12 May 2020	SOLVED	13 May 2020	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	POSSIBLE			

Function 'Undo-Checkout MCP source' does not remove the work file from the Local Work Directory after a verification message that the file remains assigned

TASK-1382-SURE	Received	12 May 2020	SOLVED	13 May 2020	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	SEVERE			
	Probability	POSSIBLE			

Date fields in a right pane browse with columns may remain empty
Task screen cannot be opened if option 'Multiple dialog' is disabled.

Solution: Locale functions appear to fail sometimes. Use a backup date formatting function when the primary function fails.

TASK-1383-SURE	Received	14 May 2020	SOLVED	14 May 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Give the new task screen scroll bars if the screen does not fit completely on the desktop

TASK-1384-SURE	Received	15 May 2020	SOLVED	9 Jun 2020	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

Remove the need for some INI entries by making their unchanging value default

TASK-1387-SURE	Received	20 May 2020	SOLVED	25 May 2020	at 100, 90
	Reported by	LEMANS			
	Type	IMPROVEMENT			
	Project	SURE			

RESPECT/PRINT must be able to print all source lines in all sources that are changed because of a specific task.

TASK-1391-SURE	Received	3 Jun 2020	SOLVED	8 Jun 2020	at 100, 90
	Reported by	LEMANS			
	Type	ERROR			

Task			Status	Date ready	Release
	Project	SURE			
	Severity	SEVERE			
	Probability	RARE			
	Function 'Merge Patch' creates sometimes a corrupted source				
TASK-1395-SURE	Received	17 Jun 2020	SOLVED	26 Jun 2020	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			
	Overview of type information that is stored in the repository				
Solution:	This overview is started via: Toolbar => Tools => Server Environment => Batch Functions => COUNT-INFO				
TASK-1399-SURE	Received	7 Jul 2020	SOLVED	12 Jul 2020	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	POSSIBLE			
	Task maintenance dialog partly switches to the content of the Description Information after Apply, but does not revert the yellow background to white when Reminder was the active Information upon Apply.				
TASK-1400-SURE	Received	8 Jul 2020	SOLVED	8 Jul 2020	at 100
	Reported by	UOFW			
	Type	IMPROVEMENT			
	Project	SURE			
	Increase the size of fields 'Attributes for object and/or compiler' and 'Object Attributes (only this env.)' on the File-Properties screen				
Solution:	Two fields of tab 'Object' of the File-properties screen are changed to buttons. - Field 'Attributes for object and/or compiler' - Field 'Object attributes (only this environment)' The buttons behave similar as other buttons on the same tab. This means that there is no limitation anymore of the length of the Object Attributes fields.				
TASK-1403-SURE	Received	15 Jul 2020	SOLVED	15 Jul 2020	at 100
	Reported by	ORDINA			
	Type	IMPROVEMENT			
	Project	SURE			
	Suppress the deactivated users from the drop-down list 'Reported by' on the task screen				

Task			Status	Date ready	Release
TASK-1404-SURE	Received	15 Jul 2020	SOLVED	15 Jul 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

A new file is added, but a file with the same name exists already in the Archive Environment. Give a better warning for this case

TASK-1405-SURE	Received	15 Jul 2020	SOLVED	15 Jul 2020	at 100
	Reported by	SNS			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	RARE			

A newly added PC-file does is not linked to a build server if the file exists already in other environments

TASK-1406-SURE	Received	15 Jul 2020	SOLVED	15 Jul 2020	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

If a file is added and the new filename exists already in another environment but in a different case, then the newly added filename must have the same case as the existing filename

TASK-1407-SURE	Received	17 Jul 2020	SOLVED	17 Jul 2020	at 100
	Reported by	ORDINA			
	Type	IMPROVEMENT			
	Project	SURE			

External task maintenance dialog has list boxes that do multi character positioning when typing in them.
Internal dialog has list boxes with the default 'first character' repositioning.

Change this to multi character to match the old situation.

TASK-1409-SURE	Received	17 Aug 2020	SOLVED	17 Aug 2020	at 100
	Reported by	ORDINA			
	Type	IMPROVEMENT			
	Project	SURE			

SURE backend on Windows: support 'elapsed time longer than 24 hours' in the job-summary log

TASK-1411-SURE	Received	20 Aug 2020	SOLVED	21 Aug 2020	at 100, 90
	Reported by	UOFW			

Task			Status	Date ready	Release
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	RARE			

Dropdown list for entity Macro may be incomplete when first opened in a dialog, depending on previous action on Macros

TASK-1412-SURE	Received	24 Aug 2020	SOLVED	24 Aug 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Show the timestamp of the relation at Query for group ALL

TASK-1414-SURE	Received	25 Aug 2020	SOLVED	25 Aug 2020	at 100
	Reported by	UOFW			
	Type	IMPROVEMENT			
	Project	SURE			

The installation program of the SURE backend on MCP must support a possible key for the secured socket

TASK-1415-SURE	Received	28 Aug 2020	SOLVED	28 Aug 2020	at 100, 90
	Reported by	UOFW			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	CERTAIN			

"Install new client software required" dialog uses obsolete path name to locate Setup.exe

TASK-1416-SURE	Received	28 Aug 2020	SOLVED	28 Aug 2020	at 100
	Reported by	ORDINA			
	Type	IMPROVEMENT			
	Project	SURE			

PC-file: show the size of the file in a right pane also if the size is larger than 1 MB

TASK-1419-SURE	Received	7 Sep 2020	SOLVED	7 Sep 2020	at 100, 90
	Reported by	BBL			
	Type	IMPROVEMENT			
	Project	SURE			

Add special examine function for WFL jobs

Task			Status	Date ready	Release

Solution: RESPECT/SURE/EXAMINE recognizes now the following statements

- SUBAPP001(param,"<program name>")
- SUBAPP002(param,"<program name>")

SUBAPP001 and AUBAPP002 are names of routines in the WFL-job. The second parameter is a program name and that program is linked to the WFL-name via an EXECUTE relation

TASK-1425-SURE

Received	25 Sep 2020	SOLVED	15 Oct 2020	at 100
Reported by	SNS			
Type	IMPROVEMENT			
Project	SURE			

Show reminder of a file at function Check-out, and also when the properties screen of a RIS-module is opened

Solution: If a RIS-component has reminder-info and the property screen of that RIS-component is opened, then a screen with reminder info is shown first.
The user has at that moment 2 options:
1. Set the reminder-info aside: the property screen becomes visible and the reminder-info remains also visible
2. Close the reminder-info: the property screen becomes visible and the screen with reminder-info is closed

TASK-1429-SURE

Received	2 Oct 2020	SOLVED	5 Feb 2021	at 100, 90
Reported by	UOFW			
Type	IMPROVEMENT			
Project	SURE			

It is not allowed anymore to use the 'PL' syntax to pass a task attribute to the compiler. If this method is defined in SURE then replace PL by COMPILER so that the next compilation via SURE doesn't fail. This improves the compatibility with newer MCP releases

TASK-1431-SURE

Received	5 Oct 2020	SOLVED	11 Oct 2020	at 100
Reported by	ITSforSURE			
Type	IMPROVEMENT			
Project	SURE			

Function Query: improve the date filter in the Query syntax

Solution: The date filter must be defined between accolades { and }, and immediately behind the query-asset

New functions in the date filter are:

{IN yyyy}
The date of the relation must be in the indicated year

{IN yyyymm}
The date of the relation must be in the indicated year + month

{BETWEEN yyyymmdd AND yyyymmdd}
The date of the relation must be between the two dates (inclusive)

Task			Status	Date ready	Release

{>= yyyymmdd} or {GEQ yyyymmdd}
The date of the relation must be greater or equal to the indicated date

{<= yyyymmdd} or {LEQ yyyymmdd}
The date of the relation must be less or equal to the indicated date

For example: COMPILE-STATUS(COMPILED{IN 2019})

If the asset contains of multiple values then you can link a different date filter to each of those values

For example:
DATASET(DCUS{IN 2019} OR DCOY{IN 2018})

TASK-1433-SURE	Received	12 Oct 2020	SOLVED	14 Oct 2020	at 100
	Reported by	BBL			
	Type	IMPROVEMENT			
	Project	SURE			

Function Query: extend the query syntax so that you can select on files with information and run-info

Solution: The following class-tokens can be used in a query to select on linked info:

INFORMATION
Check on files or RIS-components with information

REMINDER
Check on files, tasks or RIS-components with reminder info

LAST-RUN
Check on files with run-information

SOLUTION
Check on tasks with solution-info

DOCUMENTATION
Check on tasks with documentation info

GENERATE-INFO
Check on RIS-components with generation-info

It is possible to combine the info-class with a date-filter.

Example:
LAST-RUN({IN 2020}) Programs with a last run date in 2020
See the task explanation form or the task attachment in SURE for detailed information

TASK-1434-SURE	Received	13 Oct 2020	SOLVED	14 Oct 2020	at 100
	Reported by	ORDINA			
	Type	FEATURE			
	Project	SURE			

New function in SURE to delete a file from the 'Server => Source' directory

Task			Status	Date ready	Release

Solution: See the task explanation form or the task attachment in SURE for detailed information

TASK-1435-SURE

Received	14 Oct 2020	SOLVED	27 Nov 2020	at 100
Reported by	ITSforSURE			
Type	IMPROVEMENT			
Project	SURE			

Improvements for the Query function

Solution: See the task explanation form or the task attachment in SURE for detailed information

TASK-1436-SURE

Received	14 Oct 2020	SOLVED	31 Oct 2020	at 100
Reported by	ORDINA			
Type	IMPROVEMENT			
Project	SURE			

Make it possible to disable/enable values of drop-down list. A disabled value won't appear in the list until it is enabled

Solution: Folder Configuration => Drop Down Box value => <name list>

You can now right click on a value to disable/enable it.

Disables values won't appear anymore in a drop-down list on a screen.
See the task explanation form or the task attachment in SURE for detailed information

TASK-1437-SURE

Received	17 Oct 2020	SOLVED	10 Nov 2020	at 100
Reported by	BBL			
Type	IMPROVEMENT			
Project	SURE			

Make it possible that a site can define its own batch-functions, so that they can start their self-written batch programs from the SURE-GUI

Solution: An organization can define its own batch functions via folder Configuration => Site Batch Functions
You can define the following:
- A logical name for the batch function plus a brief description
- The program name.
- A railroad diagram with the possible input parameters
- Taskvalues for the program

The Site Batch Function can be started from the SURE-GUI via Tools => Server Environment => Batch Functions
See the task explanation form or the task attachment in SURE for detailed information

TASK-1438-SURE

Received	19 Oct 2020	SOLVED	26 Nov 2020	at 100, 90
Reported by	UOFW			
Type	IMPROVEMENT			
Project	SURE			

Function 'Move to Archive': make it also possible to archive immediately

Solution: Archive immediately: right click on the file => Archive => Archive immediately

Task			Status	Date ready	Release

Function 'Move to Archive' is changed to 'Put in queue To Archive'
Function 'Undo move to archive' is changed to 'Remove from queue To Archive'

See the task explanation form or the task attachment in SURE for detailed information

TASK-1439-SURE	Received	28 Oct 2020	SOLVED	16 Dec 2020	at 100
	Reported by	BBL			
	Type	IMPROVEMENT			
	Project	SURE			

Support a new column for files in a right pane: 'timestamp of last run'

Solution: See the task explanation form or the task attachment in SURE for detailed information

TASK-1440-SURE	Received	1 Nov 2020	SOLVED	11 Nov 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Function 'Add new task via task-group': show the default project, task-type, priority, effort and environment on the screen as soon as you leave the task-group field

TASK-1441-SURE	Received	2 Nov 2020	SOLVED	4 Nov 2020	at 100, 90
	Reported by	RVA			
	Type	IMPROVEMENT			
	Project	SURE			

SURE backend on Windows: allow to copy a PC-file to the Local Work Directory, so that the user can add some statements for testing without doing a check-out

Solution: Implemented via: right click on PC-file => Copy => Copy into work directory

This function is only applicable for PC files and it is dependent of the following option:
- File-type option 'Remove source & object from work directory after check-in'

TASK-1443-SURE	Received	5 Nov 2020	SOLVED	5 Nov 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Function Code Review:
- The developer who changed a source is not allowed the clear the review request
- The project of the file must meet the project-list of the reviewer
- Give a warning if you want to approve the same file 2 times in a row
- Give a warning if you want to clear the code review request

TASK-1444-SURE	Received	6 Nov 2020	SOLVED	6 Nov 2020	at 100

Task			Status	Date ready	Release
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	POSSIBLE			

Function Load file: a loaded file remains assigned to the user who did the load after a transfer to the next environment

TASK-1445-SURE	Received	9 Nov 2020	SOLVED	10 Nov 2020	at 100
	Reported by	ORDINA			
	Type	IMPROVEMENT			
	Project	SURE			

SURE backend on Windows: show also the delta-file of converted MCP sources (for reference purposes)

TASK-1446-SURE	Received	10 Nov 2020	SOLVED	10 Nov 2020	at 100
	Reported by	SNS			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	POSSIBLE			

Set file to R/O may fail on a file on a remote file system if it is immediately preceded by a set file time

TASK-1447-SURE	Received	11 Nov 2020	SOLVED	11 Nov 2020	at 100
	Reported by	ORDINA			
	Type	IMPROVEMENT			
	Project	SURE			

Function 'Task transfer': give a better error message if a task must be approved but it is not yet ready to approve

TASK-1448-SURE	Received	11 Nov 2020	SOLVED	11 Nov 2020	at 100
	Reported by	SNS			
	Type	ERROR			
	Project	SURE			
	Severity	MAJOR			
	Probability	POSSIBLE			

Locations of files in the BUILD process may have one directory node less than required

TASK-1449-SURE	Received	15 Nov 2020	SOLVED	24 Nov 2020	at 100
	Reported by	ITSforSURE			
	Type	DOCUMENT			
	Project	SURE			

Task			Status	Date ready	Release
	Documentation and release notes				
TASK-1450-SURE	Received Reported by Type Project	17 Nov 2020 ITSforSURE IMPROVEMENT SURE	SOLVED	19 Nov 2020	at 100
	Allow user to define Open With applications				
Solution:	See the task explanation form or the task attachment in SURE for detailed information				
TASK-1451-SURE	Received Reported by Type Project Severity Probability	19 Nov 2020 SNS ERROR SURE MODERATE RARE	SOLVED	20 Nov 2020	at 100
	A file is logically removed, then delinked from the task, and finally relinked to another task. After that we cannot promote the second task because of an error that the file is not valid.				
TASK-1452-SURE	Received Reported by Type Project	20 Nov 2020 ITSforSURE IMPROVEMENT SURE	SOLVED	26 Nov 2020	at 100
	Improve functions FIND and REPLACE				
Solution:	See the task explanation form or the task attachment in SURE for detailed information				
TASK-1454-SURE	Received Reported by Type Project Severity Probability	25 Nov 2020 ITSforSURE ERROR SURE MINOR RARE	SOLVED	26 Nov 2020	at 100
	Function LOADFILE does not work correctly for PC files. This function is only used for debugging				
TASK-1455-SURE	Received Reported by Type Project	26 Nov 2020 ITSforSURE IMPROVEMENT SURE	SOLVED	26 Nov 2020	at 100
	Update the help info of the SURE GUI				

Task			Status	Date ready	Release
TASK-1458-SURE	Received	30 Nov 2020	SOLVED	8 Dec 2020	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			
	Better detection of Windows 10 OS for the Help About screen				
TASK-1459-SURE	Received	30 Nov 2020	SOLVED	15 Dec 2020	at 100, 90
	Reported by	UOFW			
	Type	IMPROVEMENT			
	Project	SURE			
	RESPECT/SURE/MATCH and RESPECT/SURE/WINBATCH must check every day for empty directories				
TASK-1460-SURE	Received	3 Dec 2020	SOLVED	8 Dec 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			
	Add dump of Build.lst and Build.err files to batch build trace				
Solution:	This requires the following setting in build-ini file [BATCH] TRACE=TRUE				
TASK-1462-SURE	Received	7 Dec 2020	SOLVED	8 Dec 2020	at 100
	Reported by	SNS			
	Type	ERROR			
	Project	SURE			
	Severity	SEVERE			
	Probability	POSSIBLE			
	The Query history folders show sometimes only a colon. A mouse click on such a line may cause a crash				
Solution:	Cleanup query history on every request for that list				
TASK-1463-SURE	Received	8 Dec 2020	SOLVED	9 Dec 2020	at 100, 90
	Reported by	UOFW			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	POSSIBLE			
	File status 'Assigned' is not cleared at transfer when the file was roll-backed				

Task			Status	Date ready	Release
TASK-1464-SURE	Received	9 Dec 2020	SOLVED	9 Dec 2020	at 100, 90
	Reported by	UOFW			
	Type	IMPROVEMENT			
	Project	SURE			

Function 'Restore from Archive': use the destination work-environment

Solution: The SURE-server switches to the target-work-environment of your current task in the case of a Restore from Archive

An example of the new situation:
- Suppose the work-usercode/pack of the archive environment = (SUREARCHIVE) ON PK13
- The users' current task in DEVELOP is of system SYSA, with work-usercode/pack = * ON DEVPK (so: any user on DEVPK)
- If the user logs on with usercode USER1, the SURE-server switches to (USER1) ON DEVPK, which is part of the work-environment of SYSA in DEVELOP

TASK-1465-SURE	Received	9 Dec 2020	SOLVED	10 Dec 2020	at 100
	Reported by	LEMANS			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	RARE			

RESPECT/SURE/TRANSFER: the deploy to another host does not work for files with the object-usercode/pack the same as the SURE-batch usercode/pack

TASK-1466-SURE	Received	9 Dec 2020	SOLVED	10 Dec 2020	at 100
	Reported by	SNS			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	POSSIBLE			

Installer during REINSTALL does not show connection dialog, causing an empty INFDB connection string

Solution: Re-install copies not all configuration settings from the old AW_OBJ.INI file and updates them then in the same way as function Upgrade

TASK-1467-SURE	Received	10 Dec 2020	SOLVED	10 Dec 2020	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	RARE			

Function Query does not work correctly if the asset is 'NOT'

TASK-1468-SURE	Received	10 Dec 2020	SOLVED	10 Dec 2020	at 100, 90
	Reported by	UOFW			
	Type	ERROR			

Task			Status	Date ready	Release
	Project	SURE			
	Severity	MODERATE			
	Probability	POSSIBLE			

Rename File via a task: if the repository has an archive environment then old file name remains visible in the archive

TASK-1469-SURE	Received	10 Dec 2020	SOLVED	10 Dec 2020	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Improvements for function Query

Solution:
1. Don't close the Query screen after an error message about invalid query syntax
2. Remove function Query from menu Toolbar => Tools, because this option cannot be combined with the new Query folders in the browser
3. Better cleanup of the Query-history in the ini file
4. Various small changes in memory management to avoid a possible crash

TASK-1472-SURE	Received	13 Dec 2020	SOLVED	28 Dec 2020	at 100
	Reported by	ORDINA			
	Type	IMPROVEMENT			
	Project	SURE			

Improve the speed of batch function CREATE-ENVIRONMENT

TASK-1473-SURE	Received	14 Dec 2020	SOLVED	14 Dec 2020	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	POSSIBLE			

Task Maintenance dialog : content of field Environment does not change when selection in dialog box Environment changes

TASK-1474-RIS	Received	14 Dec 2020	SOLVED	14 Dec 2020	at 100, 90
	Reported by	CSI			
	Type	ERROR			
	Project	SURE			
	Severity	MAJOR			
	Probability	RARE			

MCP backend: Check-in of a PC-file does not work if the total file-size is a multiple of 3600 but not a multiple of 28800

TASK-1477-SURE	Received	23 Dec 2020	SOLVED	23 Dec 2020	at 100, 90

Task			Status	Date ready	Release
	Reported by	UOFW			
	Type	IMPROVEMENT			
	Project	SURE			

Function Archive: make it possible to intercept the object locations of the old environments in the event site library

TASK-1478-SURE	Received	29 Dec 2020	SOLVED	30 Dec 2020	at 100
	Reported by	BBL			
	Type	IMPROVEMENT			
	Project	SURE			

SURE logon with Kerberos: improve the SURE error message in the case that the Kerberos system returns an error

TASK-1479-SURE	Received	30 Dec 2020	SOLVED	5 Feb 2021	at 100, 90
	Reported by	UNISYS			
	Type	IMPROVEMENT			
	Project	SURE			

De-implement the usage of Unisys function TIME(6)

TASK-1480-SURE	Received	7 Jan 2021	SOLVED	28 Jan 2021	at 100, 90
	Reported by	BBL			
	Type	FEATURE			
	Project	SURE			

Make it possible to hook an external code scanning tool to SURE

Solution: See the task explanation form or the task attachment in SURE for detailed information

TASK-1481-SURE	Received	8 Jan 2021	SOLVED	27 Jan 2021	at 100, 90
	Reported by	BBL			
	Type	IMPROVEMENT			
	Project	SURE			

Logon via Kerberos: check if the Kerberos service is available before the log-on is opened.

Solution: If 'log-on via Kerberos' is enabled then SURE does at each user-log-on a check if the GSSAPI support library is active and if the Kerberos service is available.
If the Kerberos service is available then 'log-on via Kerberos' is used.
If the Kerberos service is not available then the log-on via usercode/password is used.

TASK-1482-SURE	Received	9 Jan 2021	SOLVED	11 Jan 2021	at 100, 90
	Reported by	BBL			
	Type	IMPROVEMENT			
	Project	SURE			

Log-on via Windows-Account: Link a new Windows-Account to the SURE-userid if the userid is not yet linked to any

Task			Status	Date ready	Release

Windows Account

Solution: This happens only if option 'Logon via Windows account' is enabled and the following relation is manually added:
Environment = 0
Group = OPTION
Owner = WINDOWS-ACCOUNT
Class= FIRST
Asset = USERCODE

TASK-1483-SURE

Received	11 Jan 2021	SOLVED	27 Jan 2021	at 100, 90
Reported by	RVA			
Type	IMPROVEMENT			
Project	SURE			

Batch function LOAD-SOURCE: new option to remove the source from disk after it is loaded in SURE

TASK-1484-SURE

Received	12 Jan 2021	SOLVED	12 Jan 2021	at 100, 90
Reported by	UOFW			
Type	IMPROVEMENT			
Project	SURE			

Function 'Load file in SURE': In case of an individual file: give a warning if the file is archived. In case of directory: skip the archived files and write the reason in the load-report

TASK-1485-XX

Received	19 Jan 2021	SOLVED	22 Feb 2021	at 100
Reported by	ITSforSURE			
Type	IMPROVEMENT			
Project	SURE			

TcpipManager : improve logging in routine that maps MQ incoming messages to IP outgoing sessions

TASK-1486-SURE

Received	20 Jan 2021	SOLVED	26 Jan 2021	at 100, 90
Reported by	BBL			
Type	IMPROVEMENT			
Project	SURE			

Resolve path name for INI parameter to AS_COMP, so it can be defined relative to %appdata%

Solution: The default location for AS_COMP is directory C:\ProgramData\ITSforSURE\

It is possible to place AS_COMP at a different location, but requires the following configuration settings:

The AW_OBJ.INI file:
[COMPILE]
INI=<directory>\AS_COMP.INI

For example:
%localappdata%\SURE\AS_COMP.ini

Task			Status	Date ready	Release

In MultiEdit:
Extra command line parameter: /I <directory>\AS_COMP.INI

For example:
c:\sure\ris\bin\as_comp <LFN><FILE>.<EXT> /O 1 /I "%localappdata%\SURE\AS_COMP.INI"

The quotes are only necessary if the directory of your localappdata contains spaces

TASK-1487-SURE	Received	26 Jan 2021	SOLVED	26 Jan 2021	at 100, 90
	Reported by	UOFW			
	Type	IMPROVEMENT			
	Project	SURE			

Batch function CHECK-SYSTEM-ENVIRONMENTS must also check the files with STATUS(REMOVED)

TASK-1488-SURE	Received	26 Jan 2021	SOLVED	15 Apr 2021	at 100
	Reported by	UOFW			
	Type	IMPROVEMENT			
	Project	SURE			

Improvements for the Task Deploy Overview for MCP files
1. Create also an overview for tasks that only have files that are not used for compilations,. These are files without an object-location and not used as a copy-file.

2. Check the overview for files that are changed in an environment because of Check-in, Load, Transfer, Recover, Rollback, Reprocess quick-fix, Rename, Replace, Restore from archive.

TASK-1490-SURE	Received	1 Feb 2021	SOLVED	5 Feb 2021	at 100, 90
	Reported by	BBL			
	Type	ERROR			
	Project	SURE			
	Severity	MAJOR			
	Probability	RARE			

RESPECT/SURE/COMPILE crashes with 'STRING POOL EXCEEDED"

Solution: This happened in a recursive procedure that contained a string literal

TASK-1494-SURE	Received	4 Feb 2021	SOLVED	5 Feb 2021	at 100, 90
	Reported by	UOFW			
	Type	ERROR			
	Project	SURE			
	Severity	MAJOR			
	Probability	POSSIBLE			

Invalid index in RESPECT/SURE/TRANSFER and RESPECT/SURE/COMPILE

Task			Status	Date ready	Release
Solution:	This happened when the programs were busy with the deploy overviews, in the case that more than 4000 programs were deployed				
TASK-1495-SURE	Received Reported by Type Project	15 Feb 2021 BBL IMPROVEMENT SURE	SOLVED	22 Feb 2021	at 100, 90
	Return the repository-name to the SURE-GUI at the first handshake transaction				
TASK-1496-SURE	Received Reported by Type Project	15 Feb 2021 BBL IMPROVEMENT SURE	SOLVED	19 Feb 2021	at 100, 90
	Pass the repository-name to the code-scan event				
TASK-1497-WEBSITE	Received Reported by Type Project	17 Feb 2021 SNS FEATURE SURE	SOLVED	19 Feb 2021	at 100
	Generate MD5 checksums for files that are accessible via the website download page				
Solution:	The name of a checksum file is <downloaded-file>.checksum.txt For example: - The downloaded file = : http://www.itsforsure.nl/software/SureRelease100.zip - The checksum file = : http://www.itsforsure.nl/software/SureRelease100.zip.checksum.txt				
TASK-1499-SURE	Received Reported by Type Project	18 Feb 2021 ITSforSURE IMPROVEMENT SURE	SOLVED	19 Feb 2021	at 100
	Check the Global Options				
Solution:	New: - Use Windows Domain Account to log on Removed: - Email server definition				
TASK-1501-SURE	Received Reported by Type Project	26 Feb 2021 SNS ERROR SURE	SOLVED	2 Mar 2021	at 100

Task			Status	Date ready	Release
	Severity	MODERATE			
	Probability	POSSIBLE			
	Dragging a Macro with object type ALL to a right pane hangs up the GUI				
TASK-1502-SURE	Received	26 Feb 2021	SOLVED	2 Mar 2021	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			
	Sub-folders of folder configuration have generic context menus which sometimes contain too many or too few choices for specific types. Create type specific menus for each node and sub-node, containing only the relevant choices.				
TASK-1503-SURE	Received	1 Mar 2021	SOLVED	2 Mar 2021	at 100
	Reported by	SNS			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	POSSIBLE			
	Function 'Delink a file from a task' does not always delink the file if the function is used from the speed-menu of the file. It works well if delink is used from the task-transfer screen				
TASK-1504-SURE	Received	1 Mar 2021	SOLVED	2 Mar 2021	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	SEVERE			
	Probability	CERTAIN			
	SURE backend on Windows: examine does not link the used datasets to the filename				
TASK-1506-SURE	Received	3 Mar 2021	SOLVED	5 Mar 2021	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	POSSIBLE			
	Task Life Cycle Dashboard: Open does not show correct task, Assign shows wrong header				
TASK-1507-SURE	Received	5 Mar 2021	SOLVED	5 Mar 2021	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			

Task			Status	Date ready	Release
	Project	SURE			
	Set the release number to 100.2				
TASK-1509-SURE	Received	8 Mar 2021	SOLVED	8 Mar 2021	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			
	SURE backend on Windows: improve email functionality for the pending task description when a new task is added				
TASK-1510-SURE	Received	12 Mar 2021	SOLVED	16 Mar 2021	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			
	Improve the check that the Local Repository is compatible with the Central Repository. If the compatibility check fails then the Local Repository is refreshed				
	Controls	TASK-1512-SURE	Patch TASK-1510-SURE on RIS_100		
TASK-1512-SURE	Received	15 Mar 2021	SOLVED	15 Mar 2021	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			
	Patch TASK-1510-SURE on RIS_100				
	Dependent of	TASK-1510-SURE	Improve the check that the Local Repository is compatible with the Centr		
TASK-1514-SURE	Received	17 Mar 2021	SOLVED	19 Mar 2021	at 100, 90
	Reported by	LEMANS			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	RARE			
	Some programs are not examined in the PROD environment. It works good in the DEV environment				
Solution:	This happened if the source is maintained via patchfiles and the last patchfile is empty				
TASK-1516-RFW	Received	22 Mar 2021	SOLVED	28 Mar 2021	at 100, 90
	Reported by	BBL			
	Type	ERROR			
	Project	SURE			

Task			Status	Date ready	Release
	Severity	MINOR			
	Probability	CERTAIN			
	RFW Format Print may cause messages "no memory available" from printer driver				
TASK-1517-SURE	Received	7 Apr 2021	SOLVED	19 Apr 2021	at 100
	Reported by	CEDAE			
	Type	IMPROVEMENT			
	Project	SURE			
	Function Show log: in case of log-entry 'Compiled SYNTAX' show also the syntax errors in the log screen				
TASK-1518-SURE	Received	19 Apr 2021	SOLVED	19 Apr 2021	at 100, 90, 80
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			
	Create the default INFDB description file for DMS release 621				
TASK-1524-XX	Received	4 May 2021	SOLVED	25 May 2021	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			
	SURE backend on Windows: Port FRAMEWORK projects to .Net 4.5.1				
TASK-1527-SURE	Received	6 May 2021	SOLVED	25 May 2021	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			
	Small changes in Setup modules				
TASK-1528-SURE	Received	7 May 2021	SOLVED	2 Jun 2021	at 100
	Reported by	SNS			
	Type	ERROR			
	Project	SURE			
	Severity	MAJOR			
	Probability	POSSIBLE			
	The To-Build queue for PC-files: a file was already in the build queue when the Build Server is started, and added again to the build queue during synchronization phase of the Build Server. In that case the file is removed from the build queue at the end				

Task			Status	Date ready	Release
TASK-1529-SURE	Received	12 May 2021	SOLVED	3 Jun 2021	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Improve 'Build Successfully Done' notification of the Build Server

Solution: See the task explanation form or the task attachment in SURE for detailed information

TASK-1530-SURE	Received	12 May 2021	SOLVED	3 Jun 2021	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

The BuildServer places some temporary files in the Windows temp directory. This may give problems if multiple instances of the BuildServer run simultaneously.

Solution: The temporary files are now placed in the SURE temp directory. The name of this directory can be defined in the AW_OBJ.INI file via key [SURE]DOWNLOAD=<dir>.
This makes it possible to define a different SURE temp directory for each BuildServer

TASK-1531-SURE	Received	12 May 2021	SOLVED	3 Jun 2021	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	RARE			

Sharing violation on file RIS\TOOL\CONFIG\data.001 if a BuildServer is started when a an interactive SURE-client is active on the same workstation

TASK-1532-SURE	Received	27 May 2021	SOLVED	16 Jun 2021	at 100, 90
	Reported by	UNISYS			
	Type	IMPROVEMENT			
	Project	SURE			

Log-on via Kerberos: Improve the clean-up of Kerberos contexts so that the memory usage of Kerberos remains stable

TASK-1533-SURE	Received	27 May 2021	SOLVED (already-done)	10 Sep 2021	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Improve dependency function
Source PROG/1 is DEPENDENT of source PROG/2 and PROG/2 uses copy-file COPY/3
If COPY/3 is changed then PROG/1 and PROG/2 must be recompiled because of integrity reasons. But only PROG/2 is recompiled

Task			Status	Date ready	Release
TASK-1534-SURE	Received	1 Jun 2021	SOLVED	1 Jun 2021	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Function Rename: if a file exists only in 1 environment, then do the rename for all environments

TASK-1536-SURE	Received	2 Jun 2021	SOLVED	2 Jun 2021	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Increase the visible size of an error file that is loaded by the SURE-BuildServer from 800000 to 999000 and improve the message that the remaining part is truncated

TASK-1537-SURE	Received	3 Jun 2021	SOLVED	4 Jun 2021	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

Make it possible to define a project-acronym to a project (for example: project CUSTOMERS with acronym CUS). This acronym can be used in the name-standards for new tasks.

Solution: The syntax to use the project-acronym in a name-standard is <SIGLE>.

Example with project CUSTOMER and acronym CUS:
- Name-standard <SIGLE>'-'{<SIGLE>,5} gives the name CUS-00001

TASK-1539-SURE	Received	21 Jun 2021	SOLVED	30 Jun 2021	at 100, 90
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

Extra debug info in RESPECT/SURE/COMPILE

TASK-1540-SURE	Received	25 Jun 2021	SOLVED	30 Jun 2021	at 100
	Reported by	ANDIMA			
	Type	ERROR			
	Project	SURE			
	Severity	MAJOR			
	Probability	POSSIBLE			

Crash (integer overflow) when opening the Environment Properties after the repository is upgraded from release 80 to 100

Task			Status	Date ready	Release
Solution:	The expiration-options for logging and delta-files were not correctly converted				
TASK-1542-SURE	Received	5 Jul 2021	SOLVED (already-done)	10 Sep 2021	at 100
	Reported by	ANDIMA			
	Type	ERROR			
	Project	SURE			
	Severity	MINOR			
	Probability	CERTAIN			
	Found files/tasks list opened under Select File/Task: show More... node instead of showing all results				
TASK-1548-SURE	Received	2 Aug 2021	SOLVED (already-done)	10 Sep 2021	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			
	Move temporary file location from %TEMP% to [SURE]DOWNLOAD				
TASK-1550-SURE	Received	4 Aug 2021	SOLVED	5 Aug 2021	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	POSSIBLE			
	RESPECT/SURE/TRANSFER: the deploy overview is not correct for a bound program more than 45 bindobjects are recompiled because of a changed copy-file. Only the first 45 bindobjects appear correctly as a compile-reason on the deploy-overview				
TASK-1551-SURE	Received	16 Aug 2021	SOLVED	16 Aug 2021	at 100
	Reported by	ITSforSURE			
	Type	ERROR			
	Project	SURE			
	Severity	MODERATE			
	Probability	POSSIBLE			
	Information boxes: the CRLF formatting is sometimes gone				
TASK-1555-SURE	Received	23 Aug 2021	SOLVED	23 Aug 2021	at 100
	Reported by	ANDIMA			
	Type	ERROR			
	Project	SURE			
	Severity	MAJOR			
	Probability	POSSIBLE			
	The start-job of a dasdl-source is not started anymore				

Task			Status	Date ready	Release
TASK-1556-SURE	Received Reported by Type Project	23 Aug 2021 ANDIMA IMPROVEMENT SURE	SOLVED	28 Oct 2021	at 100

Support a local compile of an MCP file via MultiEdit (or Notepad ++) if that file is only viewed from SURE
Support a local compile of an MCP file via MultiEdit (or Notepad ++) if that file is located in the SURE-temp directory

TASK-1558-SURE	Received Reported by Type Project	8 Sep 2021 UOFW IMPROVEMENT SURE	SOLVED	8 Sep 2021	at 100, 90

Allow to define the SURE-batch usercode/pack for the archive environment to support a FIND in the archive environment

TASK-1559-SURE	Received Reported by Type Project	10 Sep 2021 SNS IMPROVEMENT SURE	SOLVED	10 Sep 2021	at 100

Function Delete Task: add also a log record for this function the global SURE log

TASK-1560-SURE	Received Reported by Type Project	20 Sep 2021 BBL IMPROVEMENT SURE	SOLVED	20 Sep 2021	at 100, 90

Function 'Set Code reviewed' must not check on the domain of a source

TASK-1561-SURE	Received Reported by Type Project	21 Sep 2021 ORDINA IMPROVEMENT SURE	SOLVED	21 Sep 2021	at 100

Allow to change the task-type of a task when the old task-type does not have options that determine the flow of a task.

Solution: Changing the task type is allowed if the old task-type is defined as follows:
- Option 'Code review required' is disabled
- Tabs Transfer-by, Approval and Miscellaneous are all empty

TASK-1562-SURE	Received	22 Sep 2021	SOLVED	23 Sep 2021	at 100

Task			Status	Date ready	Release
	Reported by	ORDINA			
	Type	IMPROVEMENT			
	Project	SURE			

Improve the speed of batch functions CREATE-ENVIRONMENT and DELETE-ENVIRONMENT

TASK-1564-SURE	Received	1 Oct 2021	SOLVED	3 Oct 2021	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

Function Transfer Master-task: improve the error message if a file that is linked to a subtask is not yet reviewed

TASK-1565-SURE	Received	1 Oct 2021	SOLVED	31 Oct 2021	at 100, 90
	Reported by	BBL			
	Type	IMPROVEMENT			
	Project	SURE			

Function Code Review: if a task is deleted then the TO-REVIEW relations to that task must be deleted too

TASK-1566-SURE	Received	4 Oct 2021	SOLVED	4 Oct 2021	at 100
	Reported by	BBL			
	Type	IMPROVEMENT			
	Project	SURE			

Show the [Code Review Remarks] button on the Task-transfer screen always if there are files with remarks

TASK-1567-SURE	Received	4 Oct 2021	SOLVED	4 Oct 2021	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Function Undo Archive: give an extra security level to this function so that only the SURE-administrators can use it. The preferred function to use is 'Restore from archive'

Solution: Function 'Undo Archive' requires now the following authorizations:
- Global/Archive
- Global/Options

TASK-1570-RIS	Received	6 Oct 2021	SOLVED	6 Oct 2021	at 100
	Reported by	ITSforSURE			
	Type	IMPROVEMENT			
	Project	SURE			

RESPECT/SURE/FIND must display the current file-name in case of a crash

Task			Status	Date ready	Release
TASK-1571-RIS	Received Reported by Type Project	6 Oct 2021 ITSforSURE IMPROVEMENT SURE	SOLVED	29 Oct 2021	at 100
	Set the release number to 100.3				
TASK-1572-SURE	Received Reported by Type Project	6 Oct 2021 SNS IMPROVEMENT SURE	SOLVED	6 Oct 2021	at 100
	SURE backend for Windows: Batch scripts must give a display when the INITIALIZE procedure is completed				
TASK-1574-SURE	Received Reported by Type Project	18 Oct 2021 BBL IMPROVEMENT SURE	SOLVED	3 Nov 2021	at 100
	Function Code Review: make it possible to enter an External Reference Number at the Set Reviewed screen				
TASK-1575-SURE	Received Reported by Type Project	20 Oct 2021 BBL IMPROVEMENT SURE	SOLVED	27 Oct 2021	at 100
	Function Set Reviewed: if a file is linked to multiple tasks and the file must be reviewed, then make it possible to do the review for all those tasks in one action .				
TASK-1576-SURE	Received Reported by Type Project	27 Oct 2021 BBL IMPROVEMENT SURE	SOLVED	27 Oct 2021	at 100
	Function Code Review: move the Code Review option from system level to project level				
TASK-1577-SURE	Received Reported by Type Project	27 Oct 2021 BBL IMPROVEMENT SURE	SOLVED	27 Oct 2021	at 100
	Function Code Review: make it possible to indicate for a single file that code review must be skipped				

Task			Status	Date ready	Release
TASK-1583-SURE	Received	3 Nov 2021	SOLVED	3 Nov 2021	at 100
	Reported by	SNS			
	Type	IMPROVEMENT			
	Project	SURE			

Function 'Report via macro': make it possible to click on a macro in the browser to use it for the report