

# **Study Definition Repository (SDR)**

# Reference Implementation (RI) User Interface User Guide Version 7.0

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# **Document History**

Version No.	Date	Author	Revision Description
V1.0	17-Mar-2022	ACN	Initial Version
V2.0	30-Jun-2022	ACN	Added Pre-requisites for certificate installation
V3.0	09-Aug-2022	ACN	Added Study Comparison in General features and added a new section for administrative features.
V4.0	01-Mar-2023	ACN	Added SoA Matrix (section 2.5) and Report Export (section 3.1) feature details. Removed certificate access pre-requisite (section 1.4) for accessing SDR RI UI.
V4.1	27-Apr-2023	ACN	Added Token API link to generate auth token on login page in section 2.1
V5.0	26-Jun-2023	ACN	Added export to excel in SoA. Updated Study comparison screen. Updated all the figures with new images.
V6.0	29-Apr-2024	ACN	Added instructions to skip certificate selection after successful authentication.
V7.0	11-Sept-2025	Capgemini	Removed authentication, authorization management, and usage report.

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#### 1. Introduction

#### Overview

The UI application of the SDR Reference Implementation<sup>1</sup> allows the user to view and search Study Definitions. The RI UI features include -

- List Study Definitions and View Details including SoA Matrix
- Search Study Definitions
- View Revision History for a Study
- Compare Study Versions and Different Studies

## **Scope of Document**

This document details the list of UI features available in Study Definition Repository Reference Implementation and provides steps for navigation. The technical design and implementation of these features is out of scope.

#### **Intended Audience**

The document is a guide for users/vendors who want to view and search the study definitions using SDR RI UI.

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<sup>&</sup>lt;sup>1</sup> The SDR Reference Implementation is an attempt to demonstrate the vision of the DDF initiative, not a commercial product. To be clear, TransCelerate does not endorse any particular software, system, or service. And the use of specific brands of products or services by TransCelerate and its collaboration partners in developing the SDR Reference Implementation should not be viewed as any endorsement of such products or services.

To the extent that the SDR Reference Implementation incorporates or relies on any specific branded products or services, such as Docker, this resulted out of the practical necessities associated with making a reference implementation available to demonstrate the SDR's capabilities. Users are free to download the source code for the SDR from GitHub and design their own implementations in whatever environments they choose.



#### **Definitions and Acronyms**

Term / Abbreviation	Definition
API	Application Programming Interface
DDF	Digital Data Flow
SDR	Study Definition Repository
URL	Uniform Resource Locator

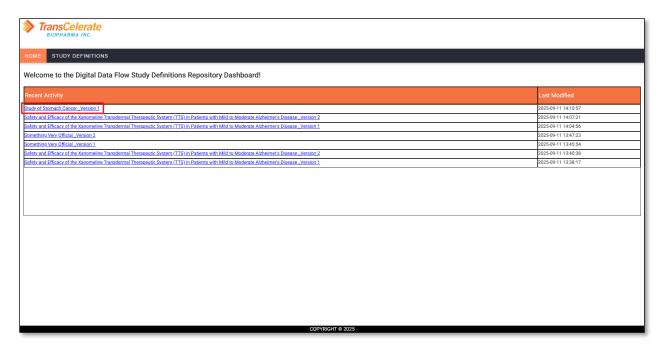
# 2. SDR RI UI - General Features

The SDR RI UI Implementation has the following features outlined below.

### **Recent Activity Widget**

On the Home Page, the Recent Activity Widget screen shows the list of Study Definitions modified over the last 30 days, with most recently modified definitions on the top. The top 20 documents are listed first, and the remaining come into view as the user scrolls.

Figure 1 Recent Activity Widget



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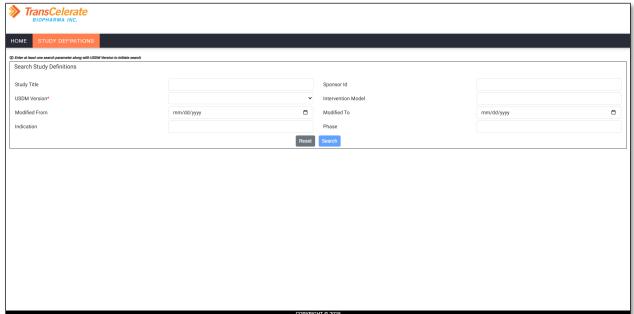


### **Search Study Definitions**

### **NAVIGATION STEPS**:

On clicking the Search Study Definitions in the menu, the user can navigate to the search page, where they can select any parameter along with the USDM Version parameter to search specific a study (the USDM Version parameter is a mandatory field):

Figure 2 Search Study page



Below is the list of search parameters and their types:

Field Name	Field Type
Study Title	Plain Text
Sponsor Id	Plain Text.
Intervention Model	Plain Text with Suggestions
Phase	Plain Text with Suggestions
Modified From	Date Picker
Modified To	Date Picker

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Indication	Plain Text.
USDM Version (Mandatory)	Dropdown containing list of different USDM versions.

• Once the user clicks on the Search button, the Search Results view is shown as below.

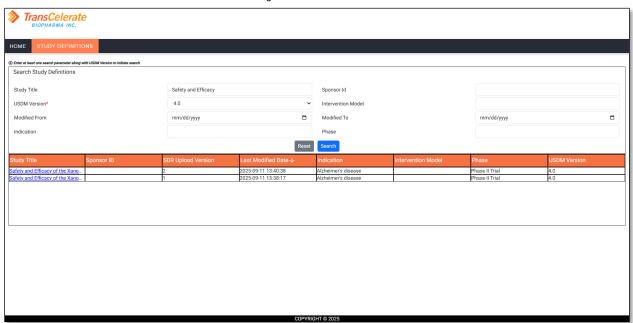


Figure 3 Search results

- Columns in the search results are sortable (ascending/descending) except USDM Version.
- The top 20 documents are listed first, and the remaining results come into view as the user scrolls.

### **Study Details**

On the click of any study title link from either the Recent Activity widget or from Search results, a Study Details page will be displayed, grouped by sections. The User can expand each section to view detailed information as shown below.

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Figure 4 Study Details Page from Home

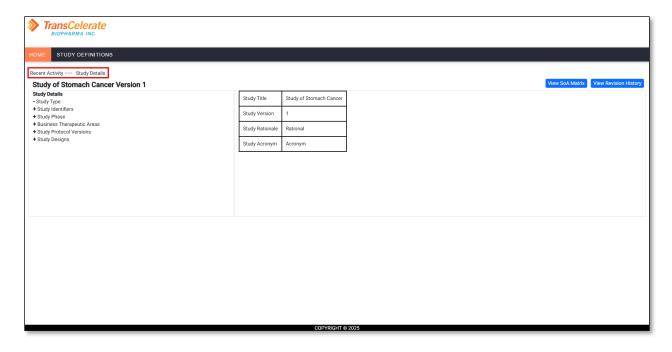
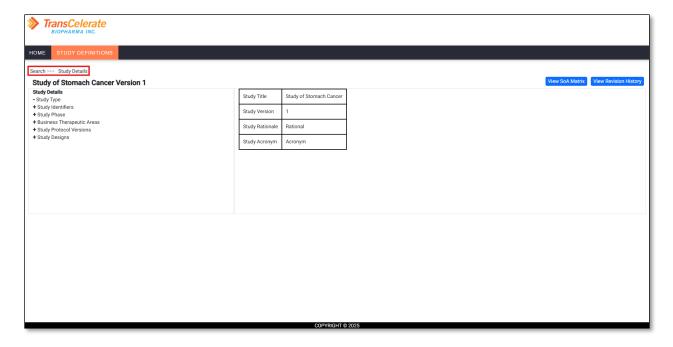


Figure 5 Study Details page from Search Grid



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#### SoA Matrix (Schedule of Activities)

The SoA Matrix shows a tabular representation of the schedule of activities for a given Schedule timeline under a Study Design. The SoA displays the mapping of encounters and activities in a matrix along with basic timing related information. This screen displays the SoA matrix for all study designs and schedule timelines (one table per schedule timeline per study design within tabs) as shown below.

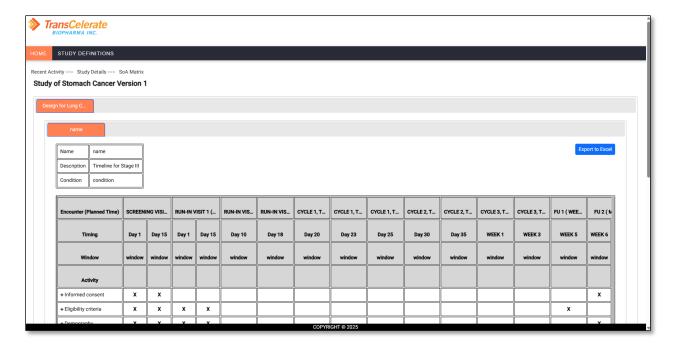


Figure 6 SoA Matrix

#### **NAVIGATION STEPS:**

- On clicking View SoA Matrix on the Study Details screen, the user will be redirected to viewing all SoA's for a given version of the study definition.
- Each study design tab will have child tabs that will display one SoA Matrix per Schedule Timeline.
- The schedule Timeline basic information (Name, Description and Condition) is above the SoA Matrix table. When there is no study design or timelines defined in the selected study version, a message is shown to the user indicating there is insufficient data to build the matrix.
- Each activity in the first column, will have an accordion component associated with it. On expanding the accordion control, Biomedical concepts, Procedures and Time Profile information will be displayed as sub items. Biomedical concepts and

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procedures will display names of the respective list of items associated with that activity.

• If any Time profile is tagged to an activity, the Time profile name along with a link to navigate to the specific matrix tab will be displayed.

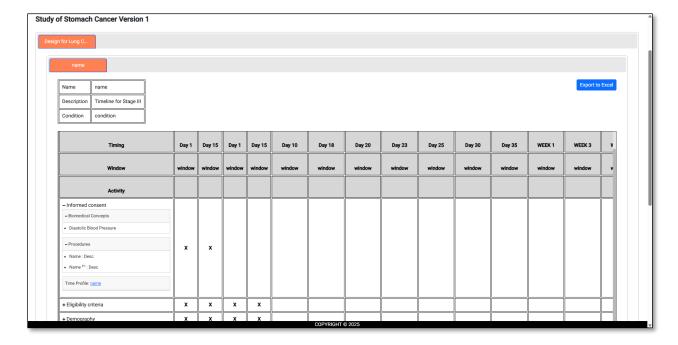


Figure 7 SoA Matrix with accordions

- Footnotes will be displayed below the SoA Matrix table to list additional information on activities and procedures when they are marked optional. Each footnote associated with an activity/procedure will display the reason for it being marked conditional.
- The user can also download the SOA Matrix by clicking on Export to Excel button which is available under each timeline.
- The 'Export to Excel' button is disabled if there is insufficient data inside any timeline.

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Activity

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Figure 8 Footnotes below SoA Matrix

#### **Revision History**

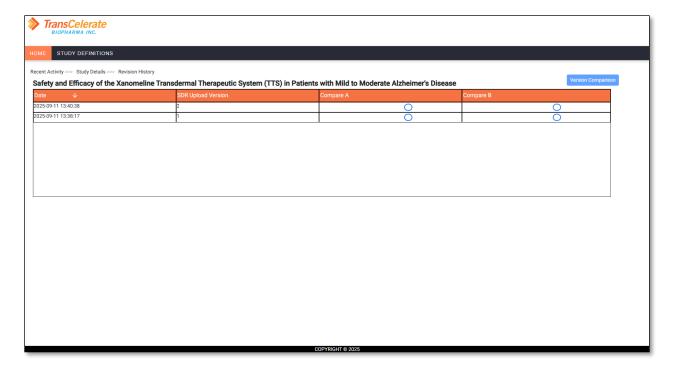
#### **NAVIGATION STEPS:**

- On clicking the View Revision History button on the Study Details page, the
  revision history page for the study will be loaded. This screen allows the user to
  view the version history for the study definition selected.
- Columns in the results are sortable (ascending/descending).
- The User can compare any two versions by selecting the corresponding radio buttons in columns "Compare A" and "Compare B".

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Figure 9 Revision History Page



## **Version Comparison**

## **NAVIGATION STEPS**:

- On clicking the Version Comparison button in the revision history screen (as shown in Figure 9 above), the version comparison page will be loaded. This screen allows the user to compare two versions of the same study.
- The User can navigate between the pages using the breadcrumb navigation.

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Figure 10 Version Comparison page

```
> TransCelerate
                  STUDY DEFINITIONS
                                                                                          ision History >>> Study Version Comparison
              sion# 1(Modified On:2025-09-11 13:38:17)
                            "id": "9e4c6d51-1267-459d-868a-2a16d9cab15c",
"name": "CDISC PILOT - LZZT",
"description": null,
"label": null,
"versions": [
                                                                                                                                                                                                                                                                                                                    "id": "9e4cdd51-1267-459d-868a-2a16d9cab15c",

"name": "CDISC PILOT - LZZI",

"description": "Description Modified",

"label": null,

"versions": [
                                                "id": "StudyVersion_1",
"instanceType": "StudyVersion",
"versionIdentifier": "2",
"businessTherapeuticAreas": [
                                                                                                                                                                                                                                                                                                                                         "id": "StudyVersion_1",
"instanceType": "StudyVersion",
"versionIdentifier": "2",
"businessTherapeuticAreas": [
                                                                    "id": "Code_8",
"code": "PHARNA",
"codeSystem": "SPONSOR",
"codeSystemVersion": "12",
"decode": "Eli Lilly",
"instanceType": "Code"
                                                                                                                                                                                                                                                                                                                                                              "id": "Code_8",
"code": "PHARMA",
"codeSystem": "SPONSOR",
"codeSystemVersion": "12",
"decode": "Ell Lilly",
"instanceType": "Code"
                                                  "rationale": "The discontinuation rate associated with this oral dosing regimen was 58.6 "notes": [],
"abbreviations": [],
"dateValues": [
                                                                                                                                                                                                                                                                                                                                           ],
"rationale": "The discontinuation rate associated with this oral dosing regimen was 58.6'
"notes": [],
"abbreviations": [],
                                                                                                                                                                                                                                                                                                                                              "dateValues": [
                                                                                                                                                                                                                                                                                                                                                           "id": "GovernanceDate_1",
"name": "D_APPROVE",
"label": "Design Approval",
"description": "Design approval date",
"tyne": {
                                                                    "id": "GovernanceDate_1",
"name": "D_APPROVE",
"label": "Design Approval",
"description": "Design approval date",
                                                                        "description : wesp....."
"type": {
    id": "Code 13",
    'code': "123552",
    'codesystem': "http://www.cdisc.org",
    'codesystem': "http://www.cdisc.org",
    'decode': "Sponsor Approval Date",
    'instanceType": "Code'

"instanceType": "Code'
                                                                                                                                                                                                                                                                                                                                                                   "description": "Design approval date",
"type": {
   "id": "Code_13",
   "code": "Cl32352",
   "code's "Cl32352",
   "code'system's: "http://www.cdisc.org",
   "code'systemVersion": "2824-89-27",
   "descode": "Sponsor Approval Date",
   "instanceType": "Code"
}
                                                                         },
"dateValue": "2006-06-01"
```

#### **Study Comparison**

#### **NAVIGATION STEPS:**

• On clicking the Compare button in the Study Definitions menu as shown in the below screenshot, the Study Comparison page will be loaded. This screen allows the user to do a side-by-side comparison of two different study definitions.

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Figure 11 Study Compare Page

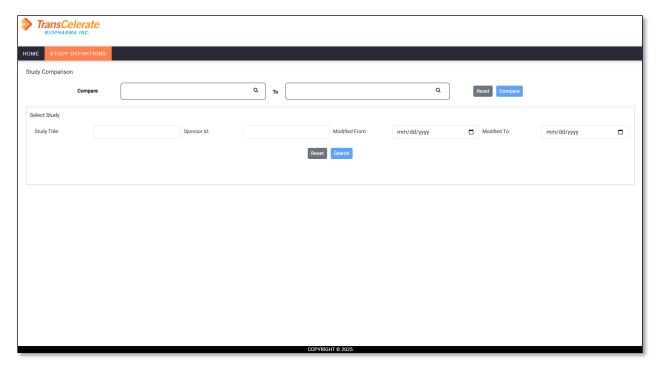


- The User can search any two studies to compare by using the search feature on the left and right sides of the compare. At any point, only two studies can be compared.
- The user searches separately for the two studies using the left and right search boxes
- In either case, once the user clicks on the search icon in the respective search box, search criteria will appear below the search boxes and the user can search a study by entering the criteria of interest and then pressing the "search" button.
   The user can search the study, by Study title, Sponsor ID and modified date range.

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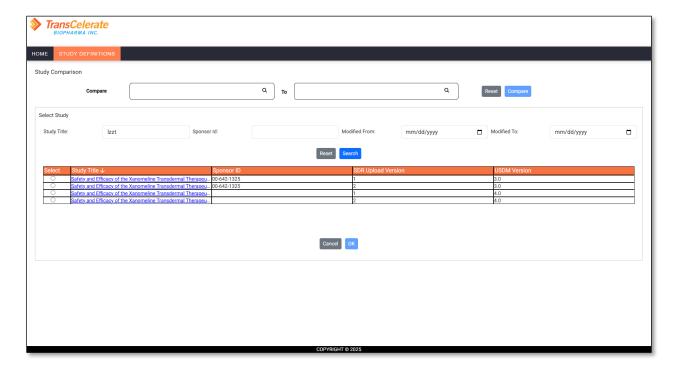


Figure 12 Search study compare page.



• Once the relevant study is found on search, user can click OK to add to compare.

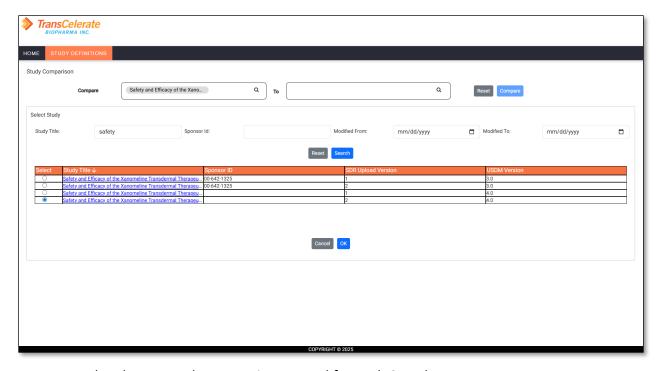
Figure 13 Study Comparison - Search Results



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Figure 14 Search study on selection to compare

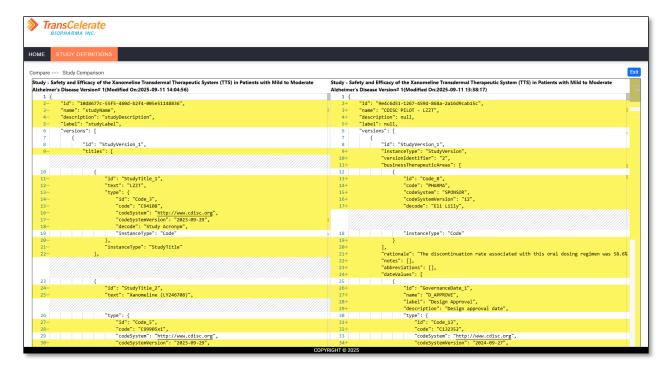


• The above search process is repeated for each Search Box.

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Figure 15 Study Comparison page

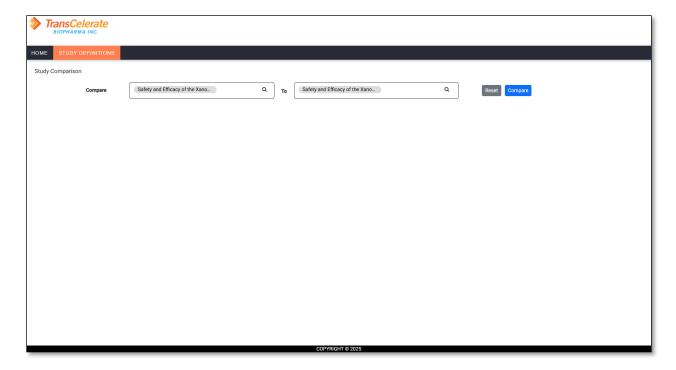


- Once two studies have been searched and selected on the left and right comparison boxes, user can click the "Compare" button.
- The application loads a side-by-side content comparison of the study definition JSONs. The comparison highlights the differences and the user can scroll through the comparison or directly jump to a difference by clicking the comparison highlights on the scrollbar.
- The User can go back to the study compare screen by clicking on the breadcrumb navigation.

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Figure 16 Compare page- navigation from breadcrumb.

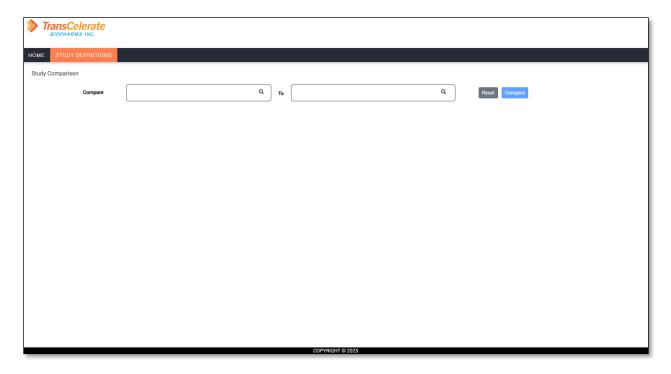


• User can also click on "Exit" button on the Study Comparison screen to go back to the compare screen that is reset as shown below.

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Figure 17 Compare page - Navigation using exit button.



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