Points to Note
for
Upgrading of CloudSAMS

(Database Software and Reporting Tool)

Version 1.0

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Amendment History				
Change Number	Revision Description	Author	Revision Number	Date

1   Target Audience

This document is mainly for the attention of school users in particular to those who like to build and maintain:

- Queries in Data Management module of CloudSAMS;

- Packages in Data Query Tool (DQT) module of CloudSAMS;

- Report templates of Crystal Reports.

2   Upgrade of database software

2.1   Note for upgrade to SAP SQL Anywhere 17

Upgrading of CloudSAMS will involve the replacement of database management system from SAP SQL Anywhere 16 to SAP SQL Anywhere 17. As there are no compatibility issues found in executing SQL statement between SAP SQL Anywhere 16 and SAP SQL Anywhere 17, users do not need to make any changes for the school-defined SQL statements.

3   Upgrade of reporting tool

3.1   Note for upgrade to SAP Crystal Reports 2020

Upgrading of CloudSAMS will involve the upgrading of reporting tool from SAP Crystal Reports 2013 to SAP Crystal Reports 2020. To cater for the changes after upgrading CloudSAMS, users are required to follow the steps in section 3.3 and 3.4 to configure workstations installed with Crystal Reports 2020 in order to let them run smoothly in the new environment. Basically, all existing report templates which are created with SAP Crystal Reports 2013 are compatible with SAP Crystal Reports 2020. However, discrepancies may be found in the report printouts. Users may follow the steps in section 3.3 and 3.4 to update corresponding report templates in order to rectify the discrepancies.

3.2   Configuration of workstation for Crystal Reports Designer 2020

Please make sure the workstation for editing report templates is resided in the CloudSAMS network segment and has installed and configured Crystal Reports Designer 2020.

Detailed procedures are specified in *Crystal Reports Designer 2020 Installation Guide* and *SAP SQL Anywhere 17 Installation Guide*.

3.3   Update School-defined Crystal Reports Templates after migration to SAP Crystal Reports 2020

As SAP Crystal Reports 2020 handles fonts, lines, sorting and HTML codes differently, the report printouts might be displayed differently. The following update processes can help users to rectify the common errors or discrepancies found in the school-defined report templates.

> *The updated school-defined report template should be uploaded to the CloudSAMS for report printing as usual.*

3.3.1 Impact on font size

Missing label, misalignment, overlapping of words or words with missing underline could be found in the report templates. Manual adjustment is required in order to rectify the problem.
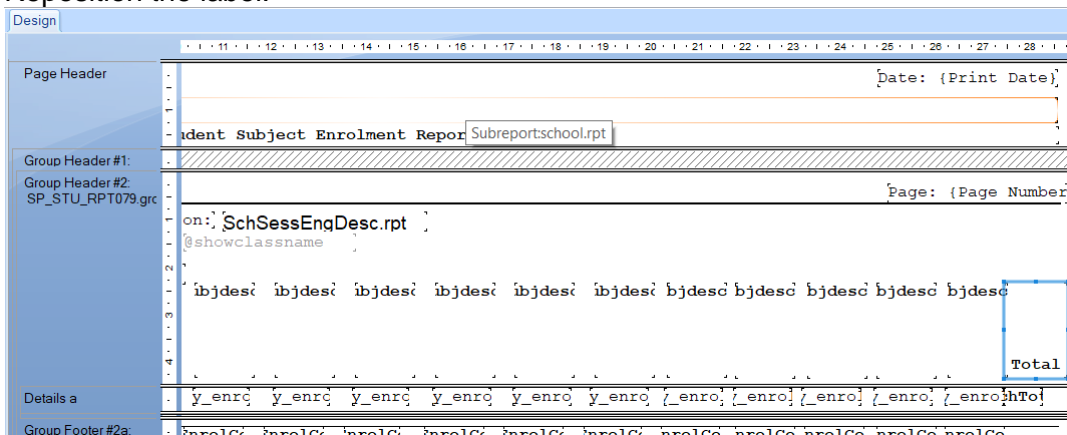
Example 1 (sample report: R-STU079-E_H)

In the column header, "Total" is missing.

Before	After

Suggested solution
1) Widen or lengthen the textbox; or
2) Reposition the label.

Example 2 (sample report: R-STU51-1)

The words are overlapping in the report.

Before	After
ID Doc No: Religion: Catholicism Non-Chinese Speaking: N Date of Measurement: 01/10/2021	ID Doc No: 1234******** Religion: Not Applicable Non-Chinese Speaking: N Date of Measurement 04/09/2021

Suggested solution
1) Widen or lengthen the textbox; or
2) Reposition the label.

Example 3 (sample report: R-APL003-C)

The underline of the word "入讀摘要" is missing.

Before	After
入讀摘要 狀況 入讀 尚待入讀確定 (模式一)	入讀摘要 狀況 入讀 尚待入讀確定 (模式一)

Suggested solution
1) Move the label up a little to make the underline visible.

Affected reports

The following built-in reports are found with the issue of missing labels, alignment, overlapped words or words with missing underline:

R-APL003	Enrolment Status Report (by School Class)
R-APL004	Enrolment Status Report (by ApL Course)
R-APL036	Enrolment Status of ApL (Chinese) Report (by School Class)
R-FBG001	Budget Income By Ledger
R-FBG004A	Variance Report of Expenditure(Without Amendment History)
R-FBG004	Variance Report of Expenditure
R-FBG004S	Variance Report of Expenditure
R-FBK021	Consolidated Expenditure Report by Grant Type
R-FBK024	School Plan by School Year
R-FBK032	Salaries Grant Account (Boarding Section)
R-FBK033	Employers Contributions to Provident Fund Scheme / MPF Scheme for Non-Teaching Staff Account (Boarding Section)
R-FBK037	OEBG Statement of Actual Expenditure Special Domain
R-SEC003	User Group Access Rights
R-SEC007a	List of functions that can be accessed outside VPN Segment
R-STU203	Report on Student Handicap and Special Education Service
R-STU204	Report on Student Handicap and Special Education Service - Group by item
R-STU205	Report on Boarders - Own Sch and Other Sch
R-STU206	Report on Allowance / Assistance
R-STU208	Report on Mode of Transport to School
R-STD028	Leave Record of Teachers - Report
R-STU079-H	Statistics - Student Subject Enrolment Report (by Subject) (Horizontal)
R-STU16-2	Statistics - No. of Student by School House List for Class Level
R-STU44-1	Mailing Label (Student)
R-STU45-1	Mailing Label (Guardian)
R-STU47-1	Parent and Guardian List by Class
R-STU47-2	Parent and Guardian List by Student
R-STU48-1	Sibling Information List by Class Level
R-STU49-1	Sibling Information List by Class
R-STU49-2	Sibling Information List by Student
R-STU51-1	Student Profile List by Class
R-STU52-1	Student Special Health Condition by Class
R-STU69-1	Student Religion by Class
R-STU69-2	Student Religion by Religion
R-STU74-1	Statistics - Early Exit Students Report (Entire School Year)
R-TTL019-E	Summary for Collaborative Lesson Planning Period
FormCErr	Student Form C Error Report
FormE	Student Form E Report

3.3.2   Impact on output table

Extra empty rows would appear at the bottom of the table if the number of items is less than the number of rows. To fix this issue, users are advised to remove the additional lines of the table one by one.
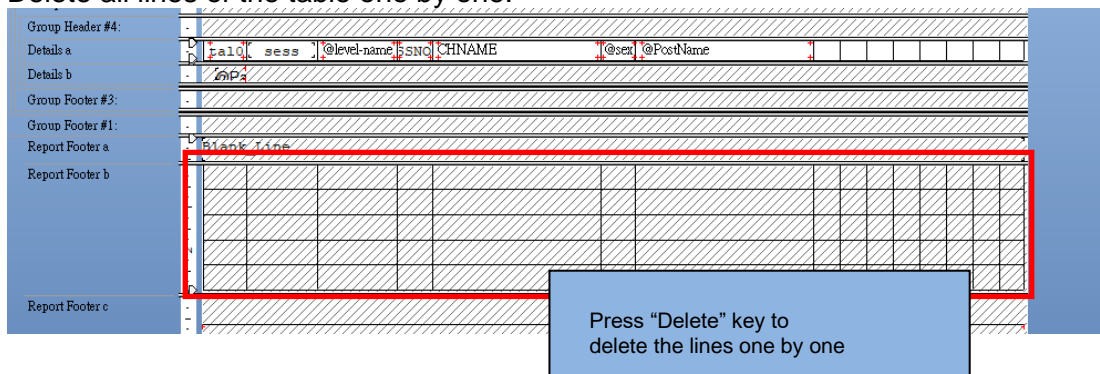
<u>Example 1 (sample report: R-STA005-C)</u>

Before

編號	授課制	班別	班號	姓名	性別	職位	
1	全日	S1-一A	21	生一甲二一	男	組長	

After

編號	授課制	班別	班號	姓名	性別	職位	
1	全日	S1-一A	21	生一甲二一	男	組長	

<u>Suggested solution</u>

1)   Delete all lines of the table one by one.

Press "Delete" key to delete the lines one by one

2)   After all lines are deleted, move the arrow to the top of the section.

3)   Minimize the size of the section.
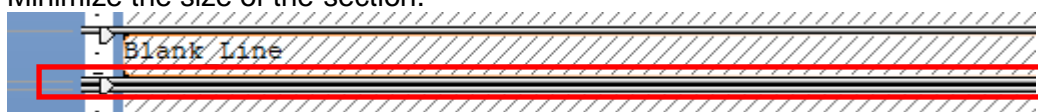
Affected reports

The following built-in reports are found with the issue of extra empty rows:

R-STA005	Activity Roll-call Sheet
R-STA024	Event Roll-call Sheet
R-STU004	Class List (with English Name and Sex)
R-STU006	Class List (with English Name, Chinese Name, Sex, Nationality, Ethnicity and Spoken Language at Home
R-STU007	Class List (with Age and Guardian English Name)
R-STU008	Class List (with STRN, DOB and Guardian English Name)
R-STU009	Class List (with STRN, DOB and Guardian Chinese Name)
R-STU010	Class List (with Father and Mother Contact)
R-STU076	Class List (with English Name, Chinese Name, Sex, Nationality, Ethnicity and Spoken Language at Home

3.3.3   Impact on table sorting sequence

The sorting sequence is different when the display language is different. The correct sequence should follow the English description in alphabetical order for both English and Chinese reports. To fix this issue, users can add an additional sorting criteria for the report. There are two suggested ways to edit the report.

Example 1 (sample report: R-STU202-C)

The sorting sequence is different.

Before	After

Suggested solution (Fix by using "Record Sort Expert")
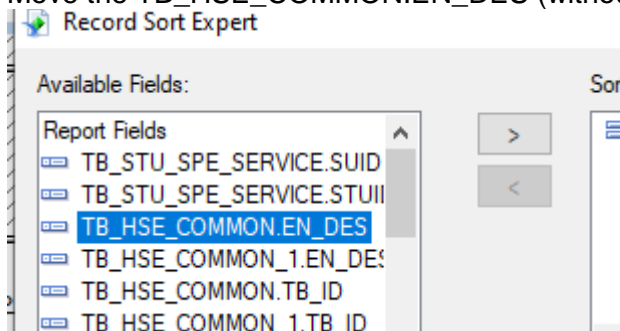
1)   Double click the field.
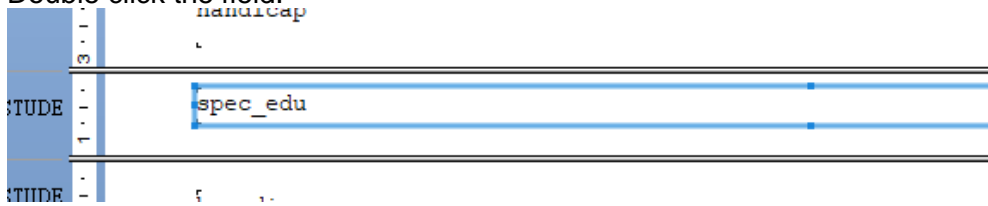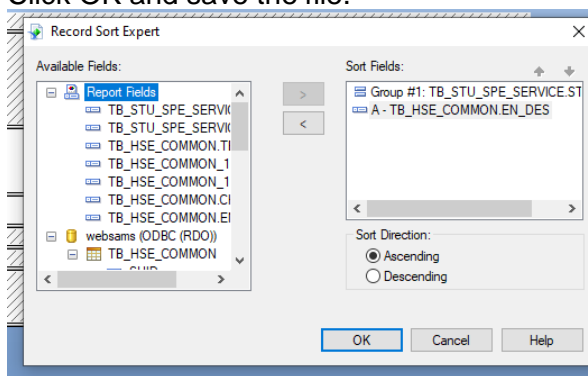

2)   Open the "Record Sort Expert" by clicking the icon.
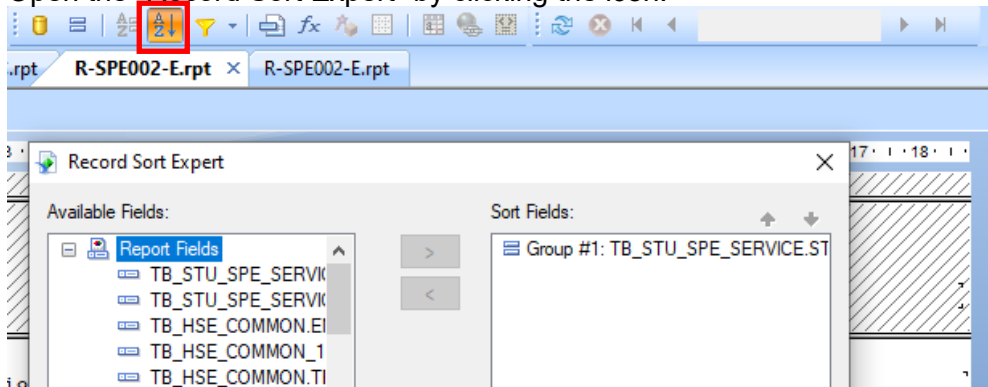
3)   Move the TB_HSE_COMMON.EN_DES (without _1) to Sort Fields.

4)   Click OK and save the file.
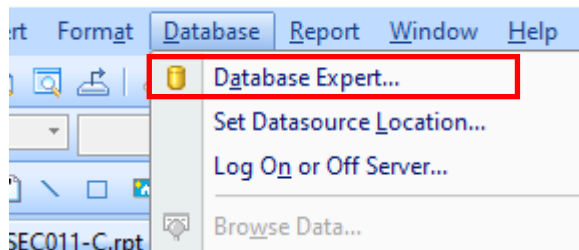
Example 2 (sample report: R-ASR003-C)

The sorting sequence is different.

Before	After

Suggested solution (Fix by editing command)

1) Click Database and choose Database Expert.

2) Right click the table and select Edit Command.
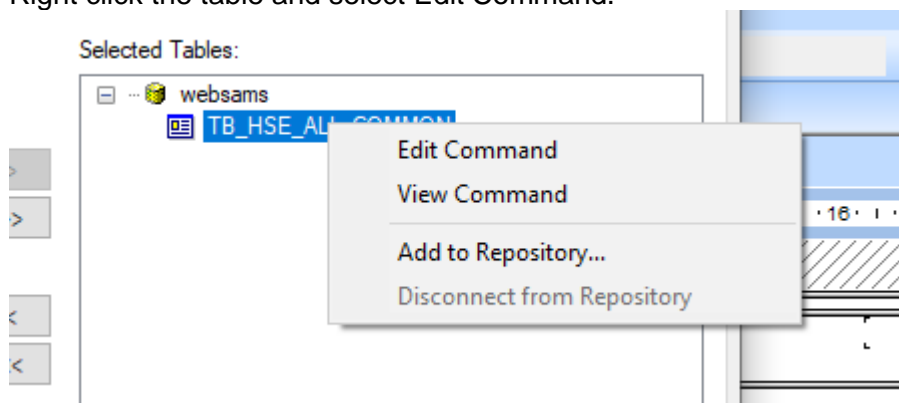
3) Add "order by EN_ABBR, MO_EN_ABBR" at the end of the SQL query.
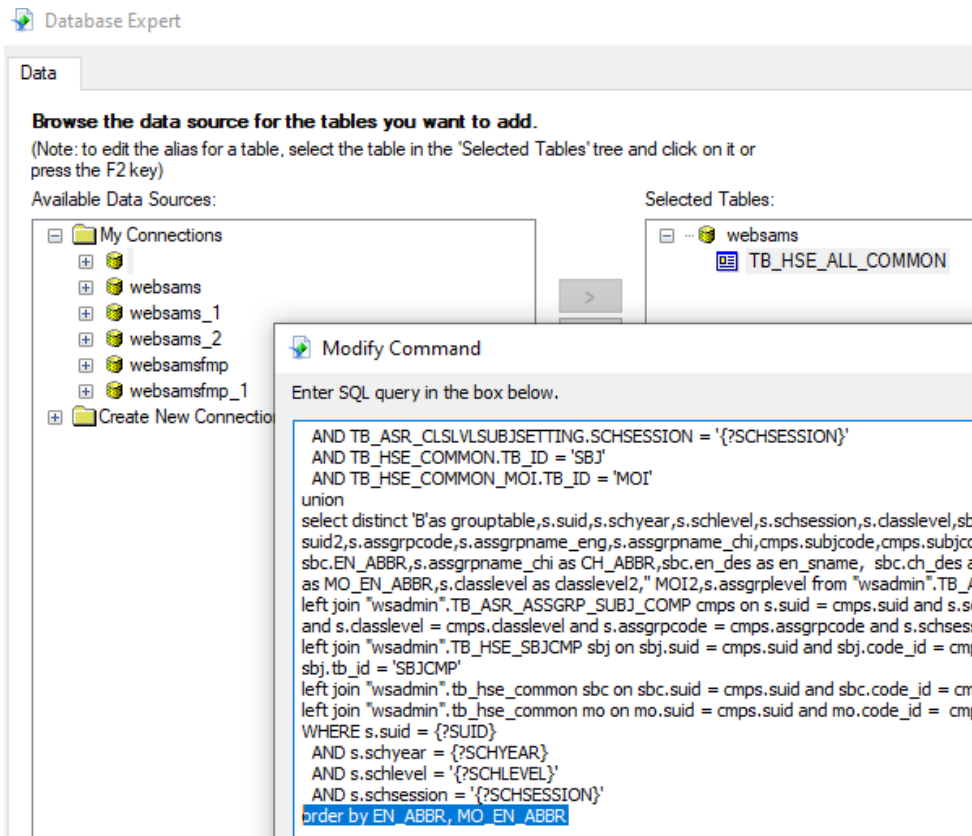
Affected Reports

The following built-in reports are found with the issue of sorting sequence:

R-ASR003	Term / Assessment Weighting Factor List
R-STU202	Student Special Education Details

3.3.4   Impact on Chinese font style

The Chinese characters cannot be shown due to a misinterpretation of font style. Users can change the font style of the targeted field in order to display Chinese characters correctly.

Example 1 (sample report: R-ANP027-C)

The Chinese characters are not shown correctly.

Before	After
出席規則 | 缺席類型	條件
遲到	至少3次		出席規則 | 缺席類型	條件
遲到	□□3□	

Suggested solution

1)   Right click on the field and select Format Field.
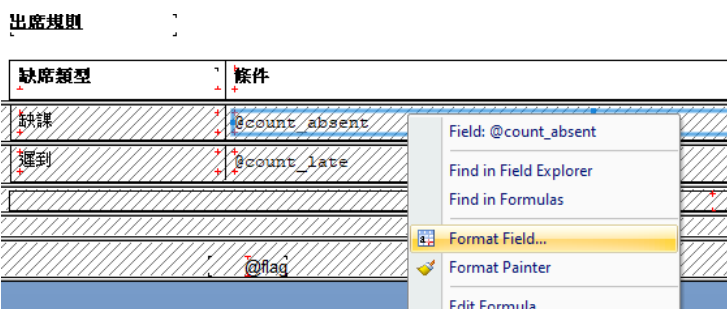
2)   Choose the tab "Font" and change the font to "新細明體", then click OK.
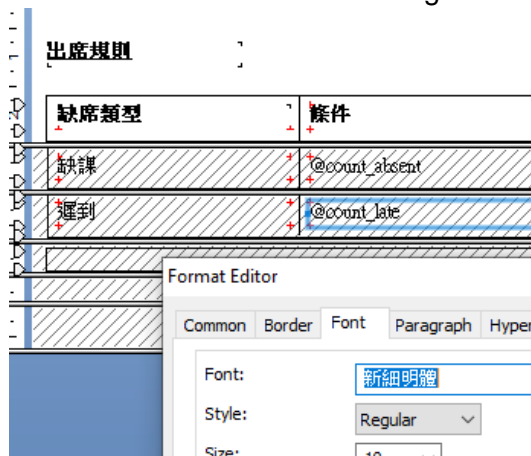
Affected Reports

The following built-in report is found with the issue of displaying Chinese characters incorrectly:

R-ANP027-C	零分獎懲規則報告

3.3.5   Impact on HTML coding

As some reports are modified by users using HTML codes in the previous version, the content created by HTML codes cannot be displayed properly and may have shifted its position.

Example 1 (sample report: R-FBK020-E)

The position of the content is shifted and cannot match with the data in other columns.

Before	After

Suggested solution

Re-creating the customized report based on the updated report template is recommended. User may download the latest report template from CloudSAMS and customize the template in the designer interface.

Affected Reports

The following built-in reports are found with the issue of HTML coding:

R-SCH050	School Define Subject Mapping - Exception Report
R-SEC011	List of Access Time Profile and user account(s) assigned Report
R-STA012	Number of Student Participated in Uniform/Social/Voluntary Service Group Statistics
R-STD004	Internal Substitution Notice Report (By Absentee)
R-STD005	Internal Substitution Notice Report (By Substitute)
R-FBK017	Consolidated Summary of Budget Income and Expenditure
R-FBK018	Consolidated OEBG Expenditure Budget with Bi-sessional Breakdown
R-FBK019	Consolidated OEBG Expenditure Report
R-FBK020	Consolidated OEBG Expenditure Budget
R-FBK021	Consolidated Expenditure Report by Grant Type
R-FBK022	Consolidated Five Year Forecast for Income and Expenditure

| R-FBK024	School Plan by School Year
R-FBK029	Gratuity Reserve Account
R-FBK030	Other Charges: Income and Expenditure Account Per Caput Grant Account
R-FBK032	Salaries Grant Account (Boarding Section)
R-FBK033	Employers Contributions to Provident Fund Scheme / MPF Scheme for Non-Teaching Staff Account (Boarding Section)
R-FBK037	OEBG Statement of Actual Expenditure Special Domain

3.4   Post-procedures

3.4.1   How to upload school-defined report to CloudSAMS?

1)   Save the report template(s) after updating.
2)   Upload the report template(s) to CloudSAMS.

Path:

[S-RPT02-02] Report Management > Template > Upload Template
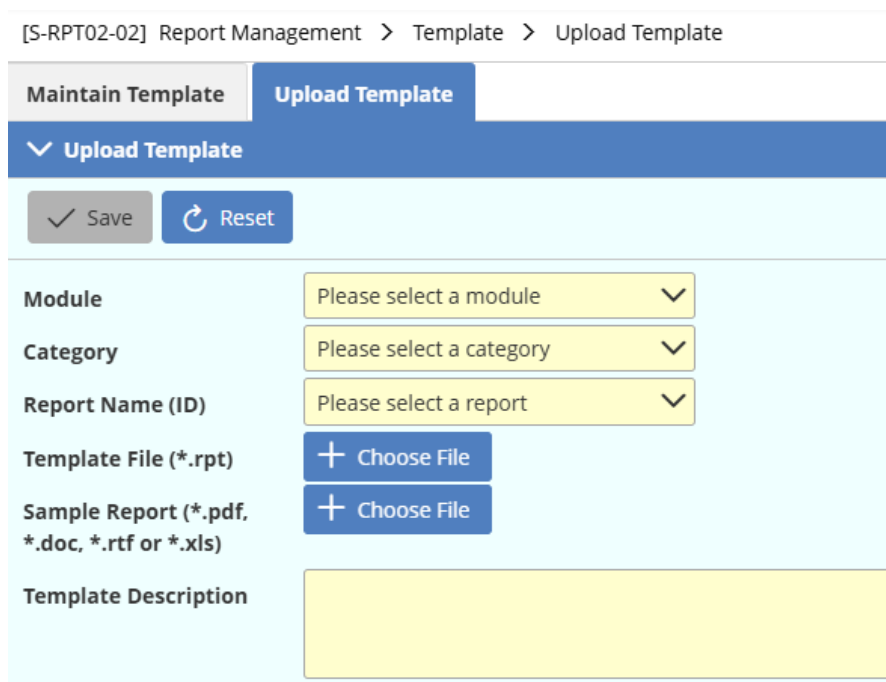
3)   Print and check each updated report in CloudSAMS.

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