HTA Usage Guide (version 2.0)

Monday, 20 December 2021 10:59 AM

Students missing SAS DATA for a selected SAS school (Version 2.0)



Version 2 of the Set-Missing USINs.hta extends on the V1 features to assist DBB in the ongoing process of accurately updating each of the 44 SAS School databases "post rollover" with additional reports:



ReportName	Use this report to
Missing USINs	assign ALL SAS students with the generated 'NewUSIN' value for the selected school.
Missing Ceiders (MIM)	identify (ONLY) ALL SAS students with a missing MIM-sourced CEnet Celder number for the matching USIN for the selected school.
Missing Candidates (SAS)	identify and update ALL missing SAS Candidate Numbers with the MIM-sourced CEnet Celder number for the matching USIN for the selected school.
Mismatching Ceiders (SAS/MIM)	identify (ONLY) ALL student Candidate Numbers which do not match the MIM-sourced CEnet Celder number for the matching USIN for the selected school.
Missing Lockers (SAS)	identify and update ALL missing SAS Locker Numbers with the MIM-sourced Email alias for the matching USIN for the selected school.
Missing Accounts (MIM)	identify (ONLY) ALL SAS students with a missing MIM-sourced Email alias (AD account name) for the matching USIN for the selected school.
Mismatching Lockers (SAS/MIM)	identify (ONLY) ALL student Locker Numbers which do not match the MIM-sourced Email alias (AD account name) for the matching USIN for the selected school.
Missing Emails (SAS)	identify and update ALL missing SAS Locker Numbers with the MIM-sourced '@dbbstu.catholic.edu.au' Email for the matching USIN for the selected school.
Mismatching Emails (SAS/MIM)	identify (ONLY) ALL student Emails which do not match the MIM-sourced '@dbbstu.catholic.edu.au' Email for the matching USIN for the selected school.

While version 1.0 of the HTA was specifically for the scenario where either before or during "EOY Student Rollover" (assigning new year/class to students for the coming school year) for any given DBB school, the above (v2.0) reports are in particular intended to assist in the process of updating SAS for matching USINs where SAS is missing any or all of the following:

- CandidateNumber (Celder in MIM)
- LockerNumber (AccountName in MIM)
- Email ('<AccountName>@dbbstu.catholic.edu.au' in MIM)

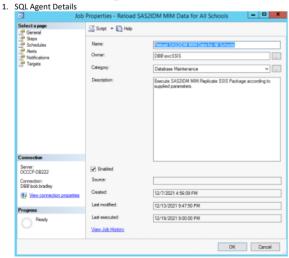
MIM_SyncReplica Database

Version 2 of the HTA is now dependent on a local replica of MIM student data on the SAS Database Server (OCCCP-DB222). This is because secure access to live MIM data was not possible without DBB needing to make several significant infrastructure changes to accommodate such a requirement.

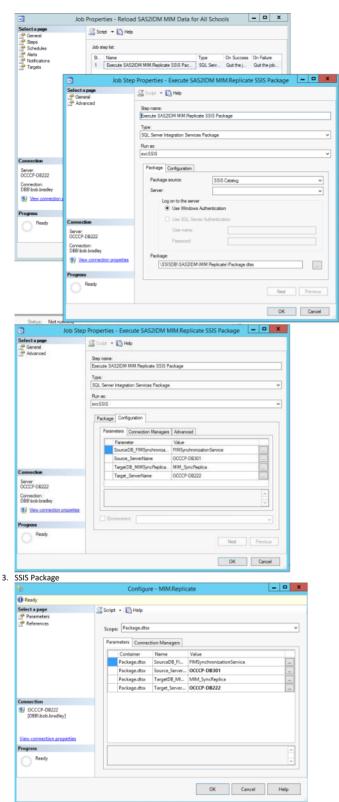
In establishing the replica model, the this inadvertently solved 3 problems:

- Poor HTA performance coupled with high network utilisation/overhead when running the HTA (observed when running SQL joins to a "Linked Server" in TEST);
- Operational support and maintenance issues; and
- Poor security posture.

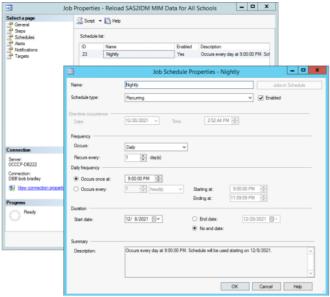
The replica database name is MIM_SyncReplica, and it is maintained on a scheduled basis by a new SQL Agent job "Reload SAS2IDM MIM Data for All Schools", which in turn executes a SSIS package "MIM.Replicate":



2. SQL Agent Steps ("MIM.Replicate" SSIS Package)



4. Schedule (nightly @ 9 pm)

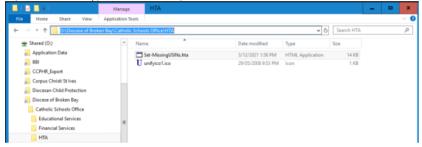


The SQL Agent job takes only seconds to run, and as such can also be run on an ad-hoc basis at any time.

Access and Location

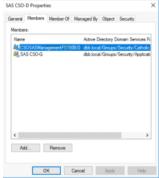
The HTA is located on the O drive in the following folder:

O:\Diocese of Broken Bay\Catholic Schools Office\HTA



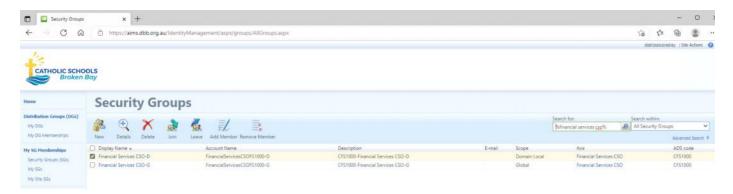
Only those users in the (MIM-managed) group CSOSASManagementFS1500-G will be able to both

- access the above folder and
- Run the HTA (via double click on the file Set-MissingUSINs.hta) achieved via the DBB\SAS CSO-D SQL login (see below)

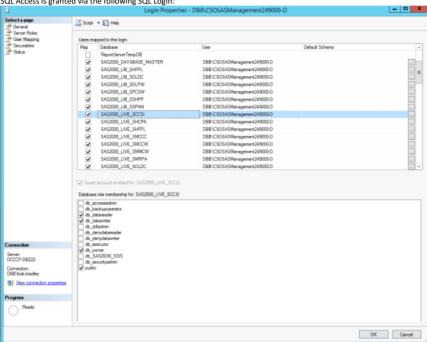


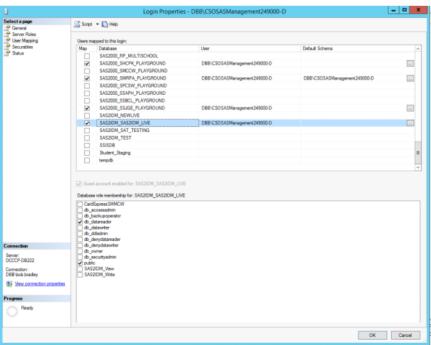


To add additional users to the Financial Services CSO-D group they must be added to the Financial Services CSO role (CFS1000 ADS code):



SQL Access is granted via the following SQL Login:





- All SAS2000_LIVE_* databases are assigned the following role membership:
 - db_datareader
 - o db_datawriter
 - o db_dataowner (although this should not be necessary!!!)
 - o public

- The SAS2IDM_SAS2IDM_LIVE database is assigned the following role membership:
 - db_datareader
 - o public

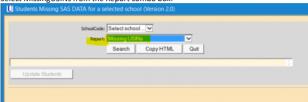
Using the HTA - Missing USINs Report

The following steps are required to assign USINs to a SAS student where no previous DBB school record can be found. In this example in the school SSJTU - Tumbi Umbi.

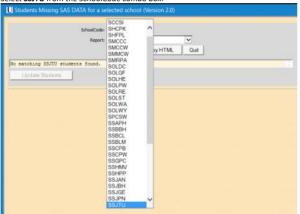
1. Launch the Set-MissingUSINs.hta file and click OK to the following warning



Select MissingUSINs from the Report combo box



Select SSJTU from the SchoolCode combo box:



4. Click Search to retrieve all students at the selected school where the USIN is null/empty, and PreEnrolment = 'N', and calculate a NewUSIN value for writing back to the corresponding SAS school student record once verified. Note that in the following screenshot, no students remain with a missing USIN, and the message "No matching SSJTU students found." is displayed above the empty results table. Note that the "Update Students" button is disabled (greyed) if the results table is empty.



if, however, at least one student record is returned (missing a USIN), and no former student record can be identified, the table would appear as follows (with the Update Students button enabled):

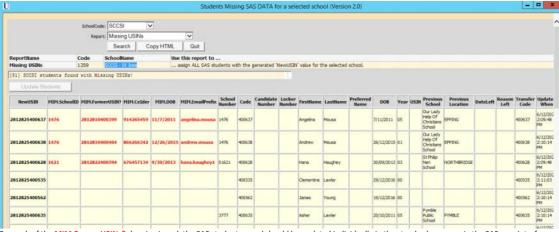


registration prior to that.

Note: The FormerUSIN? cell above for the Year 05 student (Angus Blake) is empty to indicate that while a previous school is shown, it is not one of the 44 within DBB, and nor is there any record on file for any

- 6. Alternatively, as was the case post-rollover for SCCSI St Ives, where students missing USINs are found but there is at least one student who can be matched in MIM based on a combination of
 - o FirstName
 - LastName
 - o DOB

Unlike in the previous scenario, here we see 3 student records returned have values in the FormerUSIN? And Celder columns in bold red. Note also that the **Update Students** button is now **disabled again**:



For each of the MIM.FormerUSINs? showing in red, the SAS student record should be updated individually in the standard manner via the SAS user interface.

As with the previous screenshot, check that all other students with a value in the **Previous School/Location** (e.g. Asher Lawler in year 05 above) are/were not at another of the 44 schools within DBB prior to transferring (again, the HTA will not be able to guarantee that this condition is true!!!).

Note that in the following scenarios a manual lookup of the previous USIN for a student showing as having been at a Previous School may be required:

- o If the Previous School is a DBB school, the FormerUSIN? value will not be able to be displayed if any of the FirstName/LastName/DOB do not match.
- o If the Previous School is not a DBB school, the FormerUSIN? value will not be able to be displayed but this is not a conclusive test of the non-existence of a previous USIN, e.g.
 - If the school PRIOR TO the Previous School WAS a DBB school, again the FormerUSIN? value will not be able to be displayed.
- 7. For each student returned with a FormerUSIN? In red:
 - a. Look up the student in the (SSMPD) SAS database matching the Code value
 - b. Copy the (verified!) FormerUSIN? value to the USIN field in SAS for the matching student Code and Save
 - ... then click Search again until no more students are returned in red, at which point the Update Students button will become enabled.
- 8. Once SAS updates are made, be sure to repeatedly click the **Search** button until
 - no more records appear with values in red under MIM.FormerUSINs?
 - all other records with values in the Previous School column are cross-checked manually; and
 - the Update Students button is enabled once more.
- 9. If the NewUSIN value(s) are finally OK to be written for ALL remaining students returned in the table, then
 - a. Click Copy HTML to copy the student records returned to the clipboard, and paste them into a blank Excel workbook and save for future reference (e.g. reconciliation or school follow-up) SchoolCode: SSJTU Search Copy HTML Quit Update Students 2:31:59 PM [1] new students detected for school: SSJTU. Please update students with missing USINs! AutoSave Off 🔒 🖭 😇 Book1 - Excel × File Home Insert Draw Page Layout Formulas Data Review View Help Copy Calibri - 10 · A^ A = = = ⇒ · (ab Wrap Text) Normal B I U ~ ⊞ ~ △ ~ △ ~ ≡ ≡ ≡ □ □ ⊞ Merge & Center ~ \$ ~ % 9 1% .#8 S Format Painter Clipboard fx Candidate Lock Previous Previous School Location DOB USIN Code Year N? × mber Name de hen
 - b. click on the Update Students button
 - c. Click OK to the following confirmation dialog (or Cancel to abort the update):



10. On success, no student records should be returned in the table for the selected school

Using the HTA - Missing XXX (SAS) Reports

To discover where SAS student records in MIM are found to match on USIN, but have no SAS values for any of the following fields:

- CandidateNumber
- LockerNumber
- Email

... select the corresponding report below from the Report drop-down for the selected school:

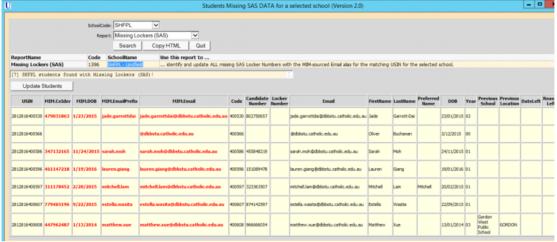
ReportName	Use this report to
Missing Candidates (SAS)	identify and update ALL missing SAS Candidate Numbers with the MIM-sourced CEnet Celder number for the matching USIN for the selected school.
Missing Lockers (SAS)	identify and update ALL missing SAS Locker Numbers with the MIM-sourced Email alias for the matching USIN for the selected school.
Missing Emails (SAS)	identify and update ALL missing SAS Locker Numbers with the MIM-sourced '@dbbstu.catholic.edu.au' Email for the matching USIN for the selected school.

As with all reports ...

1. Launch the Set-MissingUSINs.hta file and click OK to the following warning



2. With the desired school selected (in this case SHFPL - Lindfield), select the desired report - in this case Missing Lockers (SAS) - from the Report combo box and press Search:



- 3. If no student records are returned this means (in the context of the selected Missing Lockers (SAS) report!!!) none can be found in SAS where the corresponding LockerNumber is missing.
- 4. If, however, in the case of the above screenshot, one or more MIM student records are missing a corresponding value in SAS, use this report to update ALL of the missing values with the matching value from MIM in this case the matching MIM.EmailPrefix (AccountName).
 - a. Click the Copy HTML button to copy the contents of the SAS students to be updated to the clipboard, and paste them into Excel as per the Missing USINs report process earlier in this documentation
 - b. Click the Update Students button to copy the corresponding MIM.EmailPrefix value to the Locker Number in SAS:



c. If happy to proceed, Click OK ...



- b. Click OK to acknowledge successful updates in SAS
- c. Observe that the table is refreshed with the updated SAS student records no longer appearing:



- d. Note that 1 remaining SAS student record above is still returned in the table above with a missing Locker Number. This is because there was no matching value present in the MIM.EmailPrefix field for the student matching on USIN (Oliver Buchanan). In this scenario, a value must first be created in Active Directory (AD) for this student and subsequently updated (automatically) in MIM before using this report once more to update the remaining SAS student with a missing value.
- 5. The process for each of the Missing Candidates and Missing Emails is identical to the above, but with the MIM.Celder and MIM.Email data replacing the Candidate Number / Email SAS fields respectively.
- 6. In cases after the Update Students button has been used to set missing Emails, note that the SAS "Updated when/by" fields will appear with the details (audit history) of the person applying the changes via the HTA, e.g.



Note: The **audit history** is also updated for changes (when previously missing) to the **Locker Number**, but the audit history does not appear to be displayed via the SAS user interface. No audit history is written for changes only to Candidate Number (Celder), however.

Using the HTA - Missing XXX (MIM) Reports

As with the Missing (SAS) reports above, to discover where SAS student records in MIM are found to match on USIN, but have no MIM values for any of the following fields:

- Celder (~ CandidateNumber in SAS)
- . Email Prefix (~ LockerNumber in SAS)
- Email (~ Email in SAS)
- ... select the corresponding report below from the Report drop-down for the selected school:

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ReportName	Use this report to
Missing Ceiders (MIM)	identify (ONLY) ALL SAS students with a missing MIM-sourced CEnet Celder number for the matching USIN for the selected school.
Missing Accounts (MIM)	identify (ONLY) ALL SAS students with a missing MIM-sourced Email alias (AD account name) for the matching USIN for the selected school.

As with all reports ..

1. Launch the Set-MissingUSINs.hta file and click OK to the following warning



2. Select the desired report from the Report combo box and click Search - in this case for SCCSI/Missing Celders (MIM):



- 3. If no student records are returned this means (in the context of the selected Missing Celders (MIM) report!!!) none can be found where no Celder is recorded in MIM for the selected school.
- 4. If, however, in the case of the above screenshot, one or more SAS student records matching on USIN are missing a corresponding value in MIM, use this report to **inspect** ALL of the missing values and take follow-up action, i.e.
 - $a. \ \ \text{For the \textbf{\textit{Missing Celders (MIM)}} report, correcting any missing/invalid data in the CEnet "Celder Panel"; and the corrections of the$
- b. For the Missing Accounts (MIM) report, following up with DBB Digital Enablement to determine if the Active Directory (AD) account has not been created or correctly configured and linked to MIM.
- 5. In all cases, however, for both reports, the "**Update Students**" button will remain disabled (grey).

Using the HTA - Mismatching XXX (SAS/MIM) Reports (future use)

To discover where SAS student records in MIM are found to match on USIN, but have MISMATCHING/DIFFERENT (non-blank) MIM values for any of the following fields:

- Celder (~ CandidateNumber in SAS)
- Email Prefix (~ LockerNumber in SAS)
- Email (~ Email in SAS)
- ... select the corresponding report below from the Report drop-down for the selected school:

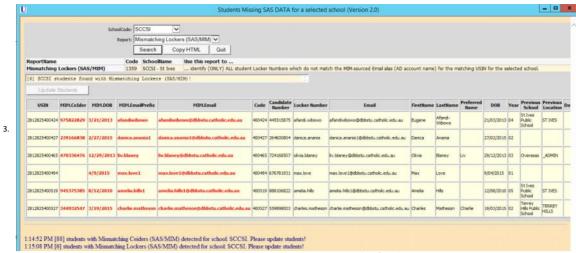
ReportName	Use this report to
Mismatching Ceiders (SAS/MIM)	identify (ONLY) ALL student Candidate Numbers which do not match the MIM-sourced CEnet Celder number for the matching USIN for the selected school.
Mismatching Lockers (SAS/MIM)	identify (ONLY) ALL student Locker Numbers which do not match the MIM-sourced Email alias (AD account name) for the matching USIN for the selected school.
Mismatching Emails (SAS/MIM)	identify (ONLY) ALL student Emails which do not match the MIM-sourced '@dbbstu.catholic.edu.au' Email for the matching USIN for the selected school.

As with all reports .

1. Launch the Set-MissingUSINs.hta file and click OK to the following warning



2. Select the desired report from the Report combo box and click Search - in this case for SCCSI/Mismatching Lockers (SAS/MIM):



- 4. If no student records are returned this means (in the context of the selected Mismatching Lockers (SAS/MIM) report!!!) none can be found in MIM where the SAS Locker Number does not match the corresponding Email Prefix in MIM for the selected school.
- 5. If, however, in the case of the above screenshot, one or more SAS student records matching on USIN exist where the SAS Locker Number does not match the corresponding Email Prefix in MIM for the selected school, use this report to **inspect** ALL of the missing values and take follow-up action, i.e.
 - a. For the Mismatching Celders (SAS/MIM) report, correcting any missing/invalid data in the CEnet "Celder Panel" and/or SAS;
 - b. For the Mismatching Lockers (SAS/MIM) report, following up with DBB Digital Enablement to determine if the Active Directory (AD) account has not been correctly configured and linked to MIM; and
 - c. For the Mismatching Emails (SAS/MIM) report, following up with DBB Digital Enablement to determine if the mailbox has not been correctly configured and linked to MIM.
- 6. In all cases, however, for all 3 reports, the "Update Students" button will remain disabled (grey).

Using the HTA - Assigning USINs - No more schools to update

Once all school codes have been inspected and missing USINs updated, click Quit to close the HTA.