

Data Extract Utility

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Infinite Campus has announced that the Data Extract Utility PULL method will be discontinued, with an end-of-life date set for June 30th, 2025. Impacts:

- PULL .bat files previously created with the PULL Client tool (ExtractWizardHelper.bat a.k.a. exportWizard) will no longer function. Districts extracting data by running PULL .bat files need to migrate to another delivery method (SFTP, FTPS, SMB) for these extracts prior to deprecation.
- The PULL Client tool, which is used for authenticating into Infinite Campus, will no longer function correctly and will result in a connection error for users still attempting to utilize this method.
- On the Data Extract Utility screen within Infinite Campus, PULL mode will be renamed to Test Extract. The Test Extract button will continue to function.

It's important to note that customers using other delivery methods (SFTP, FTPS, SMB) will **not** be affected by this change. For those impacted, it will be crucial to plan and execute the transition well ahead of the deadline to avoid disruptions in data access and operations.

Tool Search: Data Extract Utility

The Data Extract Utility provides an automated data extract tool for transferring data via a flat file from Infinite Campus servers. This tool can also upload Campus data into third-party software.

This article describes the following topics:

Data Extract Utility ☆

System Settings > Data Utilities > Data Extract Utility

Save
Delete
New

Extract Instance Name	Delivery Mode	Server	Frequency Scheduled	Extract Mode	Stopped	Last Run
Destiny Student	SMB	ftp.infinitecampus.com		sql	false	
MN_DirectAdmissions	pull			sql	true	
Translations	SMB	127.0.0.1		sql	true	
Transportation	SMB	ftp.infinitecampus.com		sql	false	

Extract Instance Name

Destiny Student

File Name

Student

File Extension

CSV (.csv)

Column Delimiter

CSV

Character Set

US-ASCII

Username

icexport

Domain

Server

SQL

☒ SQL ☐ Prism ☐ AdHoc

***SQL/Prism**

```
SELECT DISTINCT s.studentnumber AS BarCode, ca.SchoolID ,s.studentnumber AS DistrictID,s.lastname, s.firstname, ISNULL(s.middleName,"") Middle, ISNULL(s.alias,"")Nickname, s.cender,
MAX(CASE WHEN (co.homeroom = 1 or se.homeroomSection = 1) THEN sm.firstname + ' ' + sm.lastname ELSE '' END) AS Homeroom
FROM student s
JOIN calendar ca ON ca.calendarid = s.calendarid
JOIN course co ON co.calendarid = ca.calendarid
JOIN section se ON se.courseid = co.courseid
JOIN staffmember sm ON sm.personid = se.teacherpersonid
JOIN roster r ON r.sectionid = se.sectionid AND r.personid = s.personid
JOIN trial t ON t.trialid = se.trialid
```

Delivery Mode

☒ SMB ☐ SFTP Legacy (Being Deprecated) ☐ SFTP ☐ FTPS ☐ PULL

Append Date to Filename: ☒ No Date ☐ yyyyymmdd ☐ yyyyymmddhhmmssSS

Include header row? ☒ **Include double quotes?** ☒

Password

Port (Default SFTP=22) **Path**

Error Notification **User Group to Notify**

☐

Use Data Warehouse Connection

☐

Test Extract
Test Connection
Run Extract

Data Extract Schedule

☐ Stop Automated Extract

Frequency **Start Date** **Start Time**

None 08/25/2022 00:00

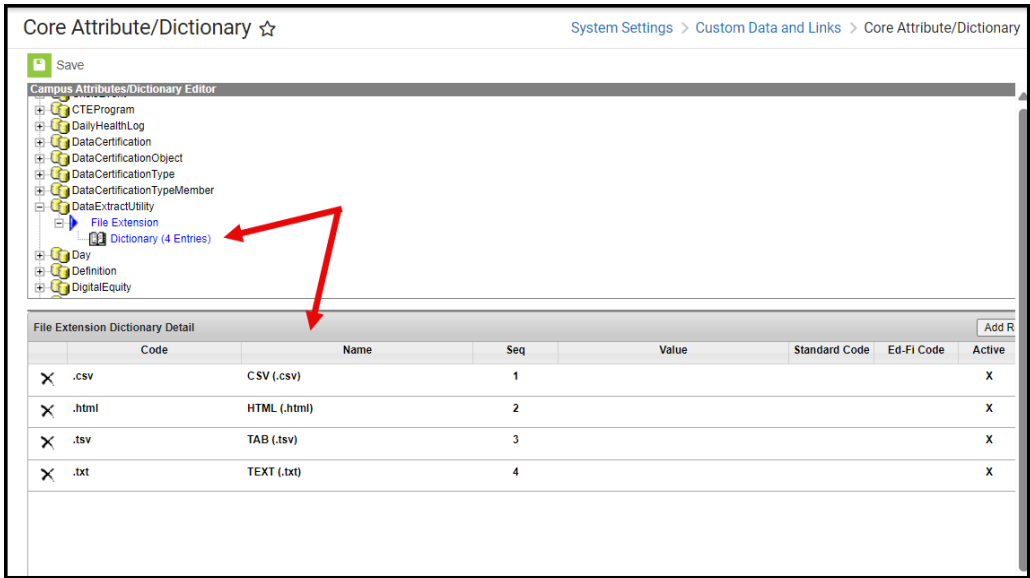
Setting Up a Data Extract

The following table provides definitions of the data elements available in the Data Extract Utility Editor.

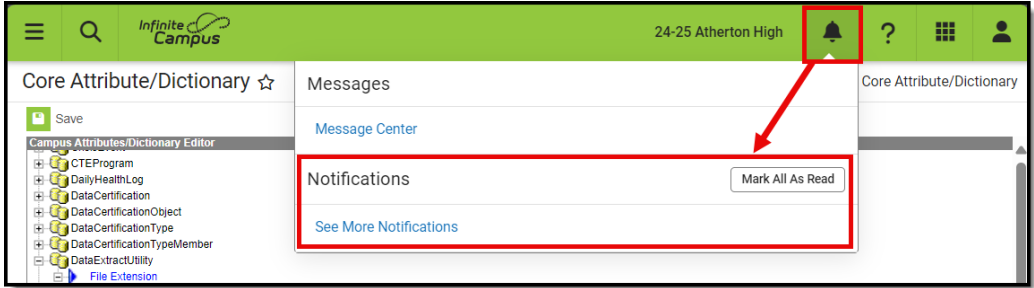
You can remove Social Security Numbers from reporting in the 3 default extracts by setting the parameter @includeSSN bit = 0

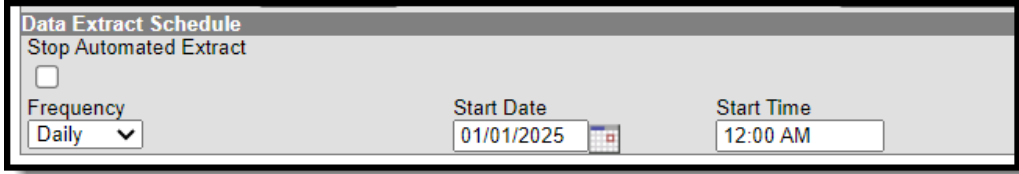
Your third-party SFTP server must allow list Campus IPs so traffic can pass. For more information, [see this article](#).

Field	Description
Extract Instance Name	The name of the extract.
Delivery Mode	<p>Indicates how the extract will be delivered.</p> <ul style="list-style-type: none"> • SMB - <i>Server Message Block</i>. This works with an operating system higher than Windows XP; used in Windows networks to allow resources such as files on one machine to be shared on other machines as if they were local. • SFTP Legacy (Being Deprecated) - <i>Secure File Transfer Protocol</i>. <div> <p>This is an outdated implementation of SFTP that does not support modern key exchange algorithms or cipher algorithms. Users should transition to the other SFTP option as soon as possible to avoid disruptions once this delivery mode is removed.</p> </div> • SFTP - <i>Secure File Transfer Protocol</i>. An encrypted form of file transfer between a local system and any system on the network. This is an updated library that supports modern key exchange algorithms. • FTPS - <i>File Transfer Protocol Secured</i>. An encrypted form of file transfer between a local system and any system on the network. This option also allows different encryption methods: <ul style="list-style-type: none"> ◦ SSL (Secure Sockets Layer) ◦ TLS (Transport Layer Security) • PULL - This option can be used in conjunction with the Export Wizard utility. This delivery mode allows for a separate client to be installed on a district server (not to be provided to third-party vendors) and set up to pull the desired extract using HTTPS via a Windows Scheduled task. See the Pull Delivery Mode section for information on using this option.
SFTP Key Exchange	<div> <p>Only applicable if the SFTP Delivery Mode is selected.</p> </div> <p>Indicates you want to use the SFTP Key Exchange for this extract.</p> <div> <p>If you leave the Password field blank, your extract will exclusively authenticate through passwordless SFTP Key Exchange. If you leave the Password field filled in, your extract can failover to authenticating with username/password authentication in the event your SFTP Key Exchange authentication has an issue.</p> </div> <p>See the Data Extract Utility SFTP Key Exchange Manager article for more information on this option and process.</p>

Field	Description
SFTP Key Exchange Configuration	<p>Only applicable if the SFTP Delivery Mode is selected and the SFTP Key Exchange checkbox is marked.</p> <p>If a key pair has been properly configured and tested within the Data Extract Utility SFTP Key Exchange Manager, select the key to be used for authenticating this extract.</p> <p>See the Data Extract Utility SFTP Key Exchange Manager article for more information on this option and process.</p>
File Name	The name of the file as it will appear in the destination folder. Often, a third-party tool needs/requires this file name.
File Extension	<p>Extension of the file.</p> <p>CSV, HTML, TAB, TXT, and custom file extensions can be added through the Core Attribute Dictionary.</p> 
Column Delimiter	<p>Indicates how data in the file will be divided. Options are:</p> <ul style="list-style-type: none"> • TAB - Uses the tab character to separate each of the columns used for storing data. • CSV - Comma-separated values file is used for data structured in lists. • Tilde (~) - Uses the tilde character (~) to separate each of the columns in the file used for data storage. • Vertical Bar () - Uses the vertical bar character () to separate each of the columns in the file used for data storage.

Field	Description
Character Set	<p>Select the character encoding standard used in the file.</p> <ul style="list-style-type: none"> • US-ASCII - The American Standard Code for Information is a common character encoding standard for electronic communication. • UTF-8 - The Unicode Transformation Format is a variable-width character encoding capable of encoding all valid code points in Unicode using one to four 8-bit bytes.
Append Date to Filename	<p>When selected, includes a date in the file, so as not to overwrite an existing file. Choose the format of the date, either the normal date format of <i>yyyymmdd</i> or date and time format of <i>yyyymmddhhmmssSS</i>.</p>
Include Header Row?	<p>When selected, a header row will be included as part of the file.</p>
Include Double Quotes?	<p>When selected, quotes around each piece of data in the column are included.</p>
Username	<p>The username used to access the destination server.</p>
Password	<p>Password used to access the destination server.</p>
Domain	<p>The domain of the server connecting to and uploading data from the Data Extract Utility.</p>
Server	<p>The IP Address of the server connecting to and uploading data from the Data Extract Utility.</p> <div> <p>Your third-party SFTP server must allow list Campus IPs so traffic can pass. For more information, see this article.</p> <p>Limited to 100 characters</p> </div>
Port	<p>Indicates the Port value required to connect to the server.</p> <ul style="list-style-type: none"> • SFTP default = 22 • FTPS default = 990
Path	<p>The location on the destination server where the file will be written. This needs to be an absolute path and include the /upload indicator.</p>

Field	Description
Error Notification	<p>If marked, any errors that occur will send a notification to the Notifications area of Infinite Campus (see below) to all users within the user group selected in the User Group to Notify dropdown list.</p> 
User Group to Notify	<p>If an error occurs while using the Data Extract Utility Set Up tool, this group will be notified via a Notifications message. To utilize this functionality, you must have the Error Notification checkbox marked.</p>
SQL/Prism	<p>Provides a text area to enter a SQL query or Prism call. Choose the desired SQL or Prism radio button.</p> <ul style="list-style-type: none"> ▪ If choosing SQL, enter the text of the query used to generate the file. ▪ If choosing Prism, choose the prism call for a PDF report and add the prism information. This option requires a Firefox browser add-on of Convert Form Methods.
Ad Hoc	<p>If choosing Ad hoc, select any saved filter to which the user has rights. This option generates the same filter as in ad hoc and carries over same restrictions. It must complete in 5 minutes. When a user no longer has rights to a filter, the utility stops running on a schedule.</p> <p>Ad hoc filters used by the Data Extract Utility are automatically scoped to data within the active year. This is the equivalent of running the ad hoc filter for the year marked as Active in School Year Setup.</p>
Use Data Warehouse	<p>If the district has a Data Warehouse, use that database instead of the live database.</p>
Ad hoc Filter	<p>When the Ad hoc radio button is selected, this lists every filter available to the user.</p>

Field	Description
Data Extract Schedule	<p>Lists the frequency, date, time, and day of the week the extract runs.</p>  <p>Frequency options include:</p> <ul style="list-style-type: none"> • None • Daily • Weekly <p>If this needs to stop for any reason, mark the Stop Automated Extract checkbox.</p>

Create a New Extract

The creation of new extracts should be done by technical administrators only.

1. Select the **New** icon. A **Detail Information** section will appear.
2. Enter the **Extract Instance Name**.
3. Choose the other necessary items for adding the extract by populating and marking the appropriate fields, as defined above.
4. Click the **Save** icon when finished. You can modify the extract to determine when it should be generated.

At this time, a user can select one of the available buttons to test the extract, test the connection to the database, or run the extract. Extracts will be displayed in a new window in the selected format.

- The **Test Extract** button generates the containing information requested by SQL or Ad hoc. Data is not written to the database or stored in any location.
- The **Test Connection** button checks the connection to the entered server by attempting to write a 1-byte file to the location setup. When it is successful, a pop-up displays indicating the connection is good; if it is not successful, it provides the reason the connection failed.
- The **Run Extract** button runs and generates the extract, sends and stores the file where needed (in case of an issue when it is an auto-run extract).

Setting Up the Data Extract Client to Utilize the Pull Delivery Mode

For information on setting up the Data Extract Client to utilize the pull delivery mode, [see this article](#).

Troubleshooting/Errors

Error	Explanation
<p>Unable to negotiate key exchange</p> <p>(client: [list of supported algorithms] / server: diffie-hellman-group14-sha1,diffie-hellman-group-exchange-sha1)"</p>	<p>This error means the SFTP server your Campus site is trying to communicate with does not support new enough algorithms to work with the Data Extract Utility's latest SFTP mode. The issue is the SFTP server you're connecting to is only offering up these older key exchange algorithms when your Campus site's Data Extract Utility client tries to communicate with it:</p> <ul style="list-style-type: none"> • diffie-hellman-group1-sha1 • diffie-hellman-group-exchange-sha1 <p>SHA1 is now considered an insecure key exchange algorithm, so our latest SFTP implementation does not support it.</p> <p>You will need to reach out to the 3rd parties/individuals who administer this SFTP server and request they update their server/SFTP software to support at least any one of any of the more modern and secure key exchange algorithms mentioned in the "client:" part of the error message.</p> <p>As soon as the SFTP server is updated to support any of the more secure key exchange algorithms, then you'll be able to use the latest SFTP mode for any connection currently receiving this error. Until this update occurs, you'll need to continue using the legacy SFTP mode.</p> <div> <p>The legacy SFTP mode is planned for deprecation at some point in the future, so there's ample time, but if you have any server still using only these less secure key exchange algorithms come that time, your connections to this server will no longer function.</p> </div>