

Data Export Specifications

inTEAM Associates, LLC

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Date	Doc Version	Data Spec Version	Item File Version	Recipe File Version	Description of change
Jan 25, 2023	4.0	4.0.0	4.0.0	3.0.0	Doc: Added additional information about the overall process, as well as the option to initially setup and refresh a district's database in GDSN Connect using the Software Item Upload with an export from district software that is similar to the Item Data File format (Step 1 & 3). Data Spec: Added new field to identify which items should be setup as single item recipes. Added notes for Field Rules when file comes from district software (Step 1 & 3) Item File: Added Menuable_Item field. Updated some Field Rules (Step 2).
Nov 2, 2022	3.1	3.0.0	3.0.0	3.0.0	Updated disclaimer text
Nov 2, 2022	3.0	3.0.0	3.0.0	3.0.0	Doc: Added more info, including details for a report from vendors/software for setting up items Data Spec: Updated item and file specs. Item File: Added Item_Report_URL field; added milliliters as a serving size valid value Recipe File: Added Last_Changed field; added milliliters as a serving size/recipe qty valid value
Aug 26, 2022	2.1	2.0.0	2.0.0	2.0.0	Added more information about the entire process.
Aug 18, 2022	2.0	2.0.0	2.0.0	2.0.0	Added more info to Data Spec and how to process the file. Field wrapper changed from a non- standard string (~) to the more standard double- quotes ("). Updated Item and Recipe File column structure and valid values for several fields.
Sep 30, 2021	1.0	1.0.0	1.0.0	1.0.0	New document.

Document Version: Tracks changes to this document. Minor version changes will not result in a change to the version of the Data Spec, Item File, or the Recipe File.

Data Spec Version: Tracks changes to the actual Data Specification, which not only includes the Item File and/or Recipe File formats, but also any changes to how the files are processed that may not change the specific format of the Item File and/or Recipe File.

Item File Version: Tracks changes to the format of the Item File.

Recipe File Version: Tracks changes to the format of the Item File.

NOTE: For the versioning in X.Y.Z format, where X is a major change (e.g., new data fields/columns); Y is a minor change (e.g., formatting inside a cell); and Z is a revision (e.g., new valid value or correction)

Background

GDSN Connect provides K-12 operators and districts with access to items and product information from the **Nourish to Flourish (N2F) Database** and allows districts to export this product data into their current child nutrition software system (menu planning, inventory, etc.). The N2F Database was developed as part of an industry-wide effort to standardize the sharing of school nutrition production information across all K-12 stakeholders and is built upon the **Global Data Synchronization Network (GDSN)**. GDSN is an existing framework that manufacturers worldwide use to communicate product information to their customers. The N2F Database receives product information from GDSN and standardizes the specific data fields most needed by K-12 menu planners into a single format that can be used throughout various K-12 applications. GDSN Connect then exports that product data adhering to the data standards developed by the N2F efforts.



Figure 1. Overview of product information flowing from suppliers to K-12 operators

This document provides operators and software providers with the information they need to setup the integration of GDSN Connect data for use in their software applications.

The latest version of this document and any test files can be found on inTEAM's <u>GDSN Connect Data Export</u> webpage. Users or software providers may also contact inTEAM directly at <u>support@e-inteam.com</u>.

Disclaimer

The nutrition information, meal components, ingredients, and allergens obtained from the Nourish to Flourish Database are provided by product manufacturers, suppliers, USDA, and/or derived from standards of identity. Such information, including allergen claims, may not be complete or up to date and users should defer to the product packaging and/or consult with the product manufacturer directly for complete and current product information. When feasible, the original source of the information is tracked and can be provided for audit purposes.

Standardized and Unique Identifiers Nourish to Flourish Standardized Identifiers DEX ID

All items within the N2F Database contain a standardized unique identifier called the **DEX ID**. A DEX ID is the unique identifier that is primarily linked to the menu planning information about a product (nutrients, allergens, meal pattern credits, etc.) but also contains the relationship to the procured item (net weight, servings per pack, etc.).

Branded Items and GTINs

Branded items from manufacturers populate the majority of the N2F Database with this data coming through GDSN. Most of these Branded products in GDSN have a unique 14-digit identifier, called a **Global Trade Item Number (GTIN)** Manufacturers sometimes create distinct GTINs for different levels of the product within a hierarchy (e.g., Each \rightarrow Pack \rightarrow Case \rightarrow Pallet). The lowest level of the hierarchy contains the "**Base GTIN**", and it is typically a Case or sometimes an Each or Pack. Within the N2F Database, the DEX ID is usually the Base GTIN. In some cases, such as private label products, the Branded items may not have GTINs, so an alternate DEX ID is assigned to these items.

Manufacturers also flag which of these levels/GTINs can be ordered by customers ("**Purchase Unit GTIN**"). Most of the time, the Base GTIN and the Purchase Unit GTIN are the same, but there are some exceptions. One example is when the Base GTIN is an Each while the Purchase Unit GTIN is the Case. The other example is when there are multiple Purchase Unit GTINs for a single Base GTIN, such as a granola bar at the Each level (the Base GTIN) that comes in a Case of 24 bars vs. a Case of 48 bars (which are two distinct Purchase Unit GTINs). The DEX ID is the Base GTIN in these examples, but the full record stored within the district's local database contains the Purchase Unit GTIN as well.



Figure 2. Example hierarchy of GTINs within GDSN

Generic Items

Not every product used by districts has a GTIN or is available in GDSN. For these Items (e.g., fresh produce or local bakery and dairy items), the N2F Database also contains standardized "Generic Equivalent" Items which have nutrient and procurement data from official sources such as USDA that can be matched to the procurement information provided during initial setup to create a fully standardized record. Each of these Generic items have their own unique standardized DEX ID and share the same formatting for records from GDSN. There is a unique Generic Equivalent and

DEX ID for each serving size or preparation style of the same product. For example, "Apples, Fresh, 125 - 138 Count, Whole" and "Apples, Fresh, 125 - 138 Count, Sliced" are two different DEX IDs because the serving size and servings per pack values are different, but they will both be associated with the same case of "Apples, Fresh, 125 - 138 Count Apples". See the **Nourish to Flourish IDs** section for more details.

Manually Added Items

For items that aren't in GDSN and don't match with a Generic item, districts can manually setup these items in their local Item Database in GDSN Connect. These items are assigned a unique value for the DEX ID and adhere to the same data standards as the other items from the N2F Database.

Items and Recipes

In addition to the standardized Items that districts maintain in GDSN Connect, districts can also search the N2F Database for standardized recipes from USDA and other suppliers. Districts can also setup their own custom Recipes within GDSN Connect. Recipes (either imported from N2F Database or custom recipes) can only contain ingredients that have already been setup as one of the standardized Items in the district's Item Database. These Recipes can be exported to the district's existing software with the unique identifiers for each ingredient to facilitate improved forecasting and inventory tracking.

Each Item within N2F contains all the information about that item, including not just the procurement information, but also the nutrient, meal pattern credit, preparation instructions (for heat and serve items), and other information needed for menu plans (for a specific serving size and preparation style). Recipes are simply a collection of these Items (or even other Recipes) as ingredients that can be used to automatically calculate recipe nutritional information and forecast required purchase quantities.

Some districts may not need or want to export Recipes to their district software. This functionality is present for those districts that do intend to use it. Recipes will have their own unique identifiers, distinct from the Item identifiers, but they will follow the same format and structure.

NOTE: Some software providers' applications use the term "Item" to refer only to the unit that is purchased (e.g., the case) and "Ingredient" to refer to the unit that contains ingredients used in recipes and/or menus. Additionally, some applications require users to setup "Recipes" that contain one or more of these items/ingredients for use on a menu. Using this terminology, Items within the N2F Database are really a combination of information used within the Items (for procurement) and Ingredients (for menu planning). Additionally, Items in the N2F Database may require being setup as "single ingredient recipes" in the other systems to hold nutrient or meal pattern credit information. The GDSN Connect item data file contains a field that can be used by the district's existing software to automatically create or link to the single item recipe. Please be aware of this terminology different to avoid issues during the integration.

Unique Identifiers Used in GDSN Connect and District's Software

The DEX ID (which is the GTIN for branded products) is the unique identifier of the product within the N2F Database and is standardized across all school districts for the same product. However, because districts may have some items that share the same DEX ID (e.g., two cases of apples with different net weights that are both matched to the same Generic DEX ID), GDSN Connect assigns a district-specific unique identifier for each item, called the DEX LOCAL ID. Additionally, schools may configure a single procurement item for use on a menu prepared and served in different ways (e.g., a case of apples that can be served as sliced apples vs. whole apple with different serving sizes and servings per case). GDSN Connect and the N2F Database data standards provide additional unique identifiers to accommodate this flexibility. The relationship between all these identifiers is described below:

Nourish to Flourish IDs (used in GDSN Connect)

- **DEX ID**: Standardized ID from N2F Database of item across different districts. May be multiple instances in a single district. Generated by N2F Database.
- **DEX Local Item ID**: Unique ID of Standardized Item *in the district's local database in GDSN Connect*, particularly with info used for inventory or procurement. May be linked to multiple DEX Local Menu IDs. Generally mapped to one District Item ID. Generated by GDSN Connect.
- **DEX Local Menu ID**: Unique ID of the Standardized Item or the Recipe *in the district's local database in GDSN Connect*, particularly containing info related to menu planning. A single DEX Local Menu ID may be linked to multiple DEX Local Item IDs (e.g., "Whole Apple" for planning menus may be linked to two different cases of apples of different net weights). Generally mapped to one District Menu ID. Generated by GDSN Connect.

Software Record IDs (used in District's Software)

GDSN Connect and the N2F data standards also support fields that can be used to store the unique record identifiers as used within the district's existing software applications. These fields are included in the GDSN Connect data export files to simplify the matching of Items and Recipes during the import into the district's existing software so the records can be precisely matched and kept in sync. These identifiers can be included as a part of the initial upload into GDSN Connect, or they can be added individually to items within GDSN Connect.

- **District Item ID**: Unique ID of Item *in District SW* as used for inventory or procurement. May be linked to multiple District Menu IDs (e.g., one case of apples used on menus in different ways). Generally associated with one DEX Local Item ID. Generated by District SW or otherwise assigned by district.
- **District Menu ID**: Unique ID of Item (or Recipe) *in District SW* as used for menu planning. Items may be linked to multiple District Item IDs. Generally mapped to one DEX Menu ID. Generated by District SW or otherwise assigned by district.

Overview of Data Sharing Processes

At a high level, the process to use GDSN Connect to access and transfer product information into a district's software application consists of the following steps:

- 1) Adding Items into GDSN Connect
 - a. Software Item Upload (contains the Software Record IDs to properly match in Step 2)
 - i. Create Nourish to Flourish IDs
 - ii. Add Software Records IDs
 - b. Alternate Methods: Vendor Item Upload, N2F Database Search, or Catalog Search
 - i. Create Nourish to Flourish IDs
 - ii. NOTE: Software Records IDs are unknown and will require Step 3
- 2) Transferring Data from GDSN Connect Data into District's Software
 - a. District Software Import
 - i. Match on Software Record IDs (for existing items)
 - ii. Create Software Record IDs (for new items)
 - iii. Add Nourish to Flourish IDs (to properly match in Step 3)
- 3) Refreshing Data in GDSN Connect (required for items setup using an Alternate Method in Step 1)
 - a. Software Item Upload
 - i. Match on Nourish to Flourish IDs
 - ii. Add **Software Records IDs** (to properly match new items on subsequent exports to District Software)

The key to making this exchange of data work is to identify and properly setup the unique identifiers (**Software Record IDs** and **Nourish to Flourish IDs**) for the records used in both GDSN Connect and the District's Software. See the section that describes these identifiers in more detail.

NOTE: Step 3 uses the Software Item Upload and is similar to Step 1 but it allows GDSN Connect to add the Software Record IDs that were created in Step 2 for new items setup using one of the Alternate Methods. This will simplify the matching on subsequent Step 2 exports so that they are more easily treated as "existing" items. Without this step being done, the matching algorithms in Step 2 will be more complicated. Examples of this are when a user adds a new item by searching the N2F Database or selecting an item from a Vendor Catalog that contains contracted pricing.



Import Data Files

into District SW;

Match on Software

IDs & Add N2F IDs

NOTE: New items created during this import into District SW should be refreshed in GDSN Connect to populate the Software IDs to simplify matching on subsequent exports. This would be done with another run of the Software Item Upload.

Figure 3. Process to add Items into GDSN Connect and export into District's software

Save Data Files to

Predefined

Location

Export Item &

Recipe Files with

Software IDs & N2F

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Step 1: Adding Items into GDSN Connect

The preferred way to setup items in GDSN Connect initially is to use the Software Item Upload with a report/file from district's software. This will properly setup the unique record identifiers to make sharing data easy between the two applications.

The two alternate approaches include the following:

- Adding Items Direct from the Nourish to Flourish Database or Vendor Catalog. This is useful when searching for new items after the initial setup. However, this will not automatically setup the unique record identifiers required to share data between GDSN Connect and the district's software.
- Uploading multiple items via the Vendor Item Upload using reports from vendors. This is less preferred because it may not allow the user to setup items in GDSN Connect in a way that can be easily exported to their software.

Software Item Upload

To better configure GDSN Connect to work with the district's existing software, GDSN Connect supports uploading a list of items and/or ingredients that has been exported from the district software <u>using the same format as the Details</u> <u>Specific to</u> Files from District Software for Upload into GDSN Connect (Step 1: Initialize & Step 3: Refresh)

This Item Data File structure also works for importing files into GDSN Connect from the district's software as part of the Software Item Upload using in Step 1 (Initialize) and Step 3 (Refresh). The Field Rules columns of the data spec defines the minimum required fields for each step. Most of the fields are not required and can be left blank, and may also vary based on the specific application used by the district and which features (e.g., menu planning vs. inventory/ordering). inTEAM will work with the software provider to define the application-specific details of these Item Data Files from the software for use with the Software Item Upload, assuming the structure conforms to those defined in this section and contains the minimum fields required to support Steps 1 and 3.

(defined below). This CSV file can be exported from the district's existing software and can contain the ingredients (for menu planning only users), the items and vendors (for inventory only users), or both (for users of fully integrated systems with linked items and ingredients). This format overcomes some of the assumptions and limitations of the Vendor Item Upload and provides for a more flexible and accurate setup process. However, the type of fields and data that is available in the district's software will vary greatly so while the file structure is the same, <u>none of the data fields</u> <u>are considered mandatory</u> in this situation to allow for the most flexibility (except for some basic fields like Item Name and the unique identifiers, if they're available).

For any software application producing these files for the initial setup, please contact inTEAM to work through the details and define application-specific instructions for importing into GDSN Connect properly.

N2F Database or Vendor Catalog Search

Within GDSN Connect, users can search the Nourish to Flourish Database and directly add these standardized items to their item database. They can also search for items in preconfigured Vendor Catalogs (which have been matched to items in the N2F Database) and add those items, along with pricing, to their item database.

If these items are already setup in the district's software, then the user can find and add the Software Record IDs from their existing software into the GDSN Connect records so that they can be easily matched upon importing back into the district's software in Step 2.

Vendor Item Upload

GDSN Connect's Vendor Item Upload tool makes it easy for districts to add multiple items to GDSN Connect all at once. The user would typically request from each of their vendors a list of items they have recently purchased or plan to use

along with pricing information. This process was designed to make it easy for operators to get setup using GDSN Connect with reports that are readily available to them. This relatively limited amount of data then gets enhanced with the full data set from the N2F Database and standardized for easy export into their existing application. The import format supports loading the Software Record IDs if they can get a similar report from the district software's inventory module. However, this approach has some limitations (e.g., it doesn't work for districts that only use a software's menu planning module), and the Software Item Upload is the more robust and universal approach.

During the upload process, the items are matched to standardized items in the Nourish to Flourish DB and enhanced with data from that N2F item. If the user cannot find an appropriate item in the N2F Database, they can create a Manually Added Item as part of this process.

If the data for the record contains the product's GTIN, then the matching process is automatic, making the setup process extremely fast. If the vendor report does not have the GTIN, then GDSN Connect contains a Smart Search tool that uses whatever optional data is provided to help match to an item from the N2F Database to get nutrient and other information.

See the section below for details on the Vendor Item Upload file specifications.

Step 2: Transferring Data from GDSN Connect Data into District's Software

Exporting from GDSN Connect

The export process described below for Items and/or Recipes from GDSN Connect is executed "on-demand" by the user. The exported data files generated by GDSN Connect are in CSV format and saved to a secure location by the user. The file(s) can then be imported into the district's software manually or consumed through automated processing. Each data file contains all *active* Items or Recipes that are setup in the district's local database in GDSN Connect.

See the <u>Appendix B: Item</u> Data File Format Specifications section for details on the format and structure of the files.

Importing into Existing District Software

The specific process to import the Item and/or Recipe data files into the district's existing software will depend on the specific software application and version used by the district and whether the software is hosted on the cloud or if the district controls access to the database tables. Many district software applications include a user interface to manage importing data from complimentary systems (e.g., student roster data from the Student Information System), or even pre-configured uploads for specific data files such as from GDSN Connect. Many systems provide tools to allow the user to define their own data imports and the associated business rules for updating each field (e.g., IGNORE, REFORMAT, OVERWRITE, or CONDITIONALY OVERWRITE) on existing items, matching records to existing items if they lack unique identifiers (searching for possible matches based on item name, brand name, manufacturer product ID, net weight, etc.), adding new items that aren't setup in the district software, and to review the results of the upload prior to processing the added or updated records.

During the import, the process should match on the Software Record IDs (District Item ID and/or District Menu ID fields) to look for existing items, ingredients, and/or recipes within the district software to update. If the Software Record ID field is blank, then the item is likely new and should be created as a new item, ingredient, and/or recipe within the district software.

NOTES:

- inTEAM also recommends saving the Nourish to Flourish IDs (DEX Local Item ID, DEX Local Menu ID, and DEX ID) to the record within the district software to make subsequent exports easier. If these values are not saved to the record in the district software and then refreshed in GDSN Connect (Step 3), then subsequent exports will not contain the Software Record IDs and the district software may treat these as new items unless more advanced matching algorithms are created.
- When importing the files from GDSN Connect, it's recommended to first import the Item Data File before importing the Recipe Data File. Each ingredient in the Recipe Data File contains a reference to an Item in the Item Data File, so it is important that the Items are properly setup in the district's existing software before attempting to import the Recipes.
- See the

• <u>Appendix A: Frequently Asked Questions / Best Practices section for more recommendations on importing the data.</u>

Cloud-Hosted

NOTE: If the import functionality described above isn't available in the district's existing software or the pre-configured upload format are not yet available for GDSN Connect data files and the software is *hosted by the vendor on the cloud*, the district will need to request that their software provider add the functionality to import the GDSN Connect Item and Recipe data files into their database and map them into the correct fields.

Sample Data Files

To support this integration, inTEAM provides a set of sample GDSN Connect Item and Recipe data files that can be used by the district's software provider to test out the import prior to obtaining a data file with real data from the district. These files can be accessed at <u>https://e-inteam.com/gdsn-connect-data-export/</u>.

<u>Sample Item Data File</u>: Contains 16 items. In addition to the 11 items that are ingredients for the sample recipes, there are a few other items added to show different examples with a variety of data including a non-food item.

<u>Sample Recipe Data File</u>: Contains 2 recipes. The first recipe is an entrée that has its nutrients and meal credits calculated automatically from the 6 ingredients; the allergens are rolled up as well. The second recipe is a side that has 5 ingredients, and its nutrients, meal credits, and allergens are entered manually at the recipe level. All ingredients are included in the Sample Item Data File, which should be processed first.

District-Hosted

If this import functionality described above isn't available in the district's existing software and the software is *installed on a server at the district and they have control over the database tables,* then the district can setup their own import process to match with their specific installation. If the district needs assistance, there are third-party import specialists who can help set this process up.

To support this setup process, inTEAM provides a set of SQL scripts that the district's IT staff can use to create the new item and recipe import database tables for N2F Item and Recipe records as well as scripts to actually import the data files into these tables. Once the staging tables are setup, the district IT simply needs to map the fields from these Item and Recipe Import tables into the structure of the district's software. The process in which this can be done is highly variable depending on the needs and capabilities of the district.

inTEAM Support Files

- DDL_FOR_DEX_ETL.sql: Script that creates the ItemImport and RecipeImport staging tables.
- BulkInsert_for_ItemImport.sql: Script that imports the exported Item data file to the ItemImport staging table.
- Format_For_ItemImport.xml: Format definition file for the Item data file, used by the import script.
- BulkInsert_for_RecipeImport.sql: Script that imports the exported Recipe data file to the RecipeImport staging table.
- Format_For_RecipeImport.xml: Format definition file for the Recipe data file, used by the import script.

NOTE: These scripts are written for a SQL Server database, but they can be adapted to other databases (Oracle, MySQL, etc.).

Step 3: Refreshing Data in GDSN Connect

The purpose of refreshing the data in Step 3 is to add the Software Record IDs back into existing records in GDSN Connect for items that were created upon the import into the district's software in Step 2. This can be done manually by the user one at a time within the GDSN Connect user interface, but the simplest and best approach is to just repeat Step 1 with different values in the data file. This process can also be used to provide updates to certain fields, such as pricing.

The district's software exports a file that matches the structure and format of the Item Data File (or Recipe Data File), with the most important values being the Software Record IDs. The rest of the fields are less important to populate but can be included as a way to update values on records in GDSN Connect.

For any software application producing these files for the refresh, please contact inTEAM to work through the details and define application-specific instructions for importing into GDSN Connect properly

Appendix A: Frequently Asked Questions / Best Practices

- What is the export of Recipes from GDSN Connect used for?
 - Including Recipes as part of the data standards was done to facilitate the communication of standardized recipes from USDA and manufacturers between software systems. While items are pretty standardized, recipes have more variability between different software systems so there is likely to be more revisions to the recipe format. The most critical aspect for a software application to support is the Item Data Format to share product information between software applications.
- What are some suggestions for importing the Item files from GDSN Connect and matching to existing item and/or ingredient records?
 - The Item Data File contains two fields that can contain the unique identifier values used within a specific software application for the item, ingredient, and/or recipes. See the **Items and Recipes**

In addition to the standardized Items that districts maintain in GDSN Connect, districts can also search the N2F Database for standardized recipes from USDA and other suppliers. Districts can also setup their own custom Recipes within GDSN Connect. Recipes (either imported from N2F Database or custom recipes) can only contain ingredients that have already been setup as one of the standardized Items in the district's Item Database. These Recipes can be exported to the district's existing software with the unique identifiers for each ingredient to facilitate improved forecasting and inventory tracking.

Each Item within N2F contains all the information about that item, including not just the procurement information, but also the nutrient, meal pattern credit, preparation instructions (for heat and serve items), and other information needed for menu plans (for a specific serving size and preparation style). Recipes are simply a collection of these Items (or even other Recipes) as ingredients that can be used to automatically calculate recipe nutritional information and forecast required purchase quantities.

Some districts may not need or want to export Recipes to their district software. This functionality is present for those districts that do intend to use it. Recipes will have their own unique identifiers, distinct from the Item identifiers, but they will follow the same format and structure.

NOTE: Some software providers' applications use the term "Item" to refer only to the unit that is purchased (e.g., the case) and "Ingredient" to refer to the unit that contains ingredients used in recipes and/or menus. Additionally, some applications require users to setup "Recipes" that contain one or more of these items/ingredients for use on a menu. Using this terminology, Items within the N2F Database are really a combination of information used within the Items (for procurement) and Ingredients (for menu planning). Additionally, Items in the N2F Database may require being setup as "single ingredient recipes" in the other systems to hold nutrient or meal pattern credit information. The GDSN Connect item data file contains a field that can be used by the district's existing software to automatically create or link to the single item recipe. Please be aware of this terminology different to avoid issues during the integration.

- Unique Identifiers section for an explanation of how these fields are intended to be used. A common example would be to store the inventory item identifier in the District Item ID field and the ingredient record identifier (or possibly the recipe record identifier, for single item recipes) in the District Menu ID field. Either or both of these fields can be populated and they're solely for the use of the software application to aid matching.
- If the software application provides a CSV file to upload into GDSN Connect's Software Item Upload tool, then these values can be precisely assigned to the corresponding records within GDSN Connect. If the software application provides a report for use with the Vendor Item Upload, then a single value can be assigned to each the District Item ID and District Menu ID fields.

- After matching the Items during an import in the existing software, it's recommended to allow the user to review the updated information and then accept or reject the changes.
- What are some suggestions for importing the Item files from GDSN Connect and creating a new item and/or ingredient (and/or recipe) record?
 - During the import, a new item can be identified because the Software Record ID fields will be blank, so they won't match to an existing record. After creating a new item within the district's software, the recommended approach is to get the Software Record ID fields back into the GDSN Connect records so they can easily be identified as an existing item. This can be done manually by the user, but it's unlikely to happen. To improve the robustness of this process, it's recommended to add the Nourish to Flourish Identifier values to the new records when initially created (this may require adding additional database fields in the district's software). Then, if the district's software produces a Software Item Upload data file, it becomes easy to automatically add the Software Record ID values back into GDSN Connect to streamline the sharing of data between systems.
 - For software applications that require that an ingredient be added to a "single item recipe" to place it on the menu, the Item record contains a "Menuable Item" flag that can be used to know if a recipe should be created to hold that ingredient for use on a menu. The user can configure this option within GDSN Connect.
- How can the District Software process only updated records instead all records included in the file?
 - The Item and Recipe data file has a "Last Changed" field that records the date and time the records was last changed within GDSN Connect. If the upload process in the District Software records the date and time of the last upload, then this can be used to compare and process only records that have changed since that Last Changed date.
- What if the serving size value and/or unit of measure of the N2F item in GDSN Connect is different than that setup in the District Software?
 - The serving size of items in GDSN Connect are typically the manufacturer serving size (weight and/or measure), or they may be matched to a commonly used serving size from a USDA record such as in the Food Buying Guide. Because these are so closely tied to the nutritional and meal credit values, GDSN Connect does not allow a user to modify the serving size of the item. When the item is imported into the District SW and matched to the District SW IDs, the import process should scale the serving size, nutritional, and meal credit values to the serving size that is setup within the District SW.
- What happens when the GDSN Connect Data Export specifications change?
 - When the specifications change, inTEAM will communicate to users and software providers the new version. GDSN Connect will provide continued support for older versions of the Data Export for a reasonable period (at least 12 months) so that software providers have the opportunity to implement and test the changes.
- How are USDA Foods Direct Delivered (Brown Box) items handled within GDSN Connect?
 - These would be setup within the Vendor that delivers the items with the Vendor Product ID typically equal to the WBSCM code of the item. During the setup/import process, these would be matched to Generic Equivalents for nutritional and procurement values.
- How can I transform Allergen claims into a binary yes/no if my system doesn't support the full claims?
 - The strongly recommended approach is to show the actual claims from the manufacturer, which is what is included in the N2F data standards. However, if that is not possible within the district's software, to maintain consistency across different users and software applications the alternate grouping of claims can bet setup as follows:
 - Yes: Contains, May Contain, Derived From
 - No: Free From, Does Not Contain, Not Derived From

- Blank/NULL: Undeclared, Not Intentionally Included
- Can I include allergens beyond the "Big 9" and other dietary flags such as Vegetarian, Gluten Free, Kosher, etc?
 - Allergens and dietary flags beyond the Big 9 are not supported at this time but may be considered within a future update.
- Why are meal pattern credits saved down to 4 decimal places instead of as fractions?
 - Within the N2F Database, the meal pattern credits are usually scaled to match the serving size of the nutrients and this may result in some non-round numbers. These are not rounded at the item level because these items may have their serving size scaled up when used in a recipe or placed on a menu. If it was rounded before scaling, then the values would be incorrect on the menu. For example, an item serving size is 2 ounces and the meal credits is 1.4114 oz eq. If the item is scaled to 3 ounces on a menu, the credits would scale to 2.1171 oz eq and then be rounded down to 2 oz eq. If the meal credits were rounded down at the item level, it would be 1.25 oz eq at 2 ounces, and it would then be 1.875 oz eq rounded down to 1.75 oz eq on the menu.

Appendix B: Item Data File Format Specifications

Item data is used to create the master database of standardized items to be used by each district on their menus and in recipes and includes relationships to procured items/purchase units for inventory and procurement systems.

Individual Records

Every Item Data file contains one row for the following unique *active* records/factors in GDSN Connect:

- DEX Local Item ID / District Item ID
- DEX Local Menu ID
- Vendor Name

If there are two "DEX Local Menu ID" records (e.g., for "Apple, Sliced" and "Apple, Whole") associated with a single "DEX Local Item ID" record (e.g., "40 lb Case of Apples"), then there will be two records in the data file for that item. If that item has one "DEX Local Menu ID" and one "DEX Local Item ID" but can be procured from two different vendors, then there will be two records.

CSV Formatting Notes

The Item and Recipe export files are provided as a comma-separated-value (CSV) flat-file that adhere to the RFC 4180 guidelines (<u>https://www.rfc-editor.org/rfc/rfc4180.html</u>).

- Each file has a header row that contains the column names.
- All fields are enclosed in quotes ("), and any value that contains quotes within its text (e.g. 10" tortilla) will be replaced with a double quotes ("").
 - Example: The value from the example above will appear as "10"" Tortilla".
- Be careful when opening the data files in Excel because Excel re-formats GTINs (and other numerical values with 10+ digits) in scientific notation. If you save the Excel file back to a CSV file without properly re-formatting these values, it will save to the CSV file as scientific notation and lose many of the digits.

Details Specific to Files from GDSN Connect for Import into District Software (Step 2: Transfer Data)

File Naming Conventions

Files are named to indicate the type of content (Item or Recipe), the date/time the export file was generated (in yyyymmddhhmm format with the hours in 24-hour format), and the file version of the export.

Example: ItemExport_202208161530_v2.0.0.csv

Images and Documents

Image and document files (e.g., product images, CN Label images) are stored on inTEAM's servers and the item and recipe data files contain the URL to access the image or document (credentials are not required). This is a common approach similar to how product images are shared via GDSN or student profile images are shared by Lifetouch.

Details Specific to Files from District Software for Upload into GDSN Connect (Step 1: Initialize & Step 3: Refresh)

This Item Data File structure also works for importing files into GDSN Connect from the district's software as part of the Software Item Upload using in Step 1 (Initialize) and Step 3 (Refresh). The Field Rules columns of the data spec defines the minimum required fields for each step. Most of the fields are not required and can be left blank, and may also vary based on the specific application used by the district and which features (e.g., menu planning vs. inventory/ordering). inTEAM will work with the software provider to define the application-specific details of these Item Data Files from the

software for use with the Software Item Upload, assuming the structure conforms to those defined in this section and contains the minimum fields required to support Steps 1 and 3.

Field Rules Meaning in Data Spec Tables

The Data Fields column in the data spec tables below have the following meanings to maintain maximum compatibility with the Nourish to Flourish data standards. Note that the field rules are different depending on how the file is used:

- M Mandatory: Required (in most cases) to ensure standardization and data quality.
- C Mandatory in some conditions: Required in certain situations (e.g., a unit of measure that qualifies a size or weight.)
- R Recommended: Provides highly useful information and is usually available (when available).
- O Optional: Provides useful information for some scenarios (when available).
- NA or (-) Not Applicable: Not applicable for some situations (e.g., nutrient values for Non-Foods items)

The section below describes the data elements within the Item Data File

ITEM Data v4.0.0									
		Field Rules							
	Step 1	Step 2	Step 3]					
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values			
DEX_ID	-	М	-	Text (100 char)	The DEX_ID is a standardized identifier for an item. Typically, this value is the same as the item's 14-digit GTIN. For example: 00856235005033.	00073420201005 A9000050 X002570252			
DEX_Local _Menu_ID	-	М	М	Numeric	Unique identifier for item's menu planning info within the district's local database. Format: Integer	365820			
District _Menu_ID	М	С	М	Text (50 char)	Unique identifier used in the district's existing software for the item's menu planning/recipe information. Mandatory from district software (Step 1 & 3) as appropriate per software. Conditional from GDSN Connect (Step 2) depending on if it was provided during Step 1; new items may not have it.	ABC12345 SCRM010 36820 00073420201005			
Item_Type	M	М	-	Text (20 char)	Denotes whether an item is food or non-food. Note: For non-food items, some fields will be null that would otherwise require mandatory, valid values. Valid Values : Foods, Non-Foods	Foods Non-Foods			
GTIN_Base	R	R	-	Numeric Text (14 char)	The Base Unit GTIN for the product. This may be different from the Purchase Unit GTIN. Format: A numeric value 14 characters in length, including leading zeros. Mandatory for items from GDSN.	00073420201005 00856235005033			

ITEM Data v4.0.0	ITEM Data v4.0.0									
		Field Rules								
	Step 1	Step 2	Step 3							
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values				
Item_Name	C	М	R	Text (100 char)	The name of the item as it would appear on a Menu or	10Z DAISY BRAND				
_Menu					Production Record.	REGULAR SOUR CREAM				
						SINGLE SERVE PACKET				
						5 Way Mix Vegetable				
						AdvancePierre [™] Fully				
						Cooked Flamebroiled Rib				
						Shaped Pork Patties				
						flavored with BBQ Sauce,				
						2.5 oz				
Brand_Name	R	R	-	Text (100 char)	The name of the Brand.	Daisy Brand				
						Advance Pierre				
Manufacturer	R	R	-	Text (100	The name of the Manufacturer.	Daisy Brand				
				char)						
	_					Tyson Foods, Inc.				
Mfr_Item_ID	R	R	-	Text (50 char)	The product number or code that the manufacture uses to	00073420201005				
					Identify the product.					
						201005				
Itom Imaga		0		Toyt (1.000	A list of LIDI (c) with the location of the product image(c)	https://app.gdspappast				
Item_Image	-	0	-	rext (1,000	A list of ORL(s) with the location of the product image(s)	com/Contont/85cob450				
				Char)	in the list is the primary file. Supported file types are IPG	0080 42d2 ba4o				
					in the list is the primary me. Supported me types are fed.	d0339563610 ing				
					Record delimiter: double-nine					
					Format:	https://app.gdspconpect				
						com/Content /85ceh459-				
						0989-42d2-ba4e-				
						d03395bc3b10.ipg11				
						https://app.gdspconnect				
						com/Content/				
						dae8b232-7c71-415c-				
						801e-8a947213fcad.jpg				

ITEM Data v4.0.0						
		Field Rules				
	Step 1	Step 2	Step 3			
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values
CN_Label	R	0	-	Text (50 char)	CN Label # for the product.	093793
_Number						
CN_Label	-	0	-	Text (1,000	CN Label crediting statement.	Each 4.46 oz. Cheese
_Statement				char)		Pizza, provides 2.00 oz.
						equivalent meat
						alternate, 2.00 oz.
						equivalent grains, and
						1/8 cup red/orange
						vegetables for the Child
						Nutrition Meal Pattern
						Requirements. (Use of
						this logo and statement
						authorized by the Food
						and Nutrition Service,
						USDA 03-18.)
						Cut each 44.53 oz.
						Cheese Pizza into 8 equal
						5.56 oz. portions. Each
						5.56 oz. portion (by
						weight) provides 2.00 oz.
						equivalent meat
						alternate, 3.00 02.
						1/8 cup red/orange
						vegetable for the Child
						Nutrition Meal Pattern
						Requirements. (Use of
						this logo and statement
						authorized by the Food
						and Nutrition Service.
						USDA 12-16.)
CN_Label	-	0	-	Text (30 char)	CN Label expiration date.	2022/05/15
_Expiration _Date						
					Format: yyyy/mm/dd	

ITEM Data v4.0.0						
		Field Rules				
	Step 1	Step 2	Step 3			
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values
CN_Label	-	0	-	Text (1,000	A list of URL(s) with the location of the CN Label files associated	https://app.gdsnconnect.
_File_URL				char)	with the item. If there are more than one, the first URL in the list	com/Content/85ceb459-
					is the primary file. Supported file types are JPG and PDF.	0989-42d2-ba4e-
						d03395bc3b10.jpg
					Record delimiter: double-pipe	
					Format:	https://app.gdsnconnect.
					<url1> <url2> </url2></url1>	com/Content /85ceb459-
						0989-4202-044e-
						https://app.gdspconpect
						com/Content/
						dae8b232-7c71-415c-
						801e-8a947213fcad.pdf
Product	_	0	-	Text (5.000	PFS crediting statement.	
Formulation		-		char)		
				,		
PFS_File_URL	-	0	-	Text (1,000	A list of URL(s) with the location of the Product Formulation	https://app.gdsnconnect.
				char)	Statement files associated with the item. If there are more than	com/Images/85ceb459-
					one, the first URL in the list is the primary file. Supported file	0989-42d2-ba4e-
					types are JPG and PDF.	d03395bc3b10.jpg
					Record delimiter: double-pipe	https://app.gdsnconnect.
					Format:	com/Images/85ceb459-
					<ukl1> <ukl2> </ukl2></ukl1>	0989-42d2-ba4e-
						d03395bc3b10.jpg
						https://app.gdsnconnect.
						com/Images/ dae8b232-
						7c71-415c-801e-
						8a947213fcad.pdf
Serving_Size	R	0	-	Text (1,000	A textual description of the serving size with no formatting	1 bar
_Description				char)	standards.	
						1 Roll (14g)
					*Not applicable for items of type non-food.	
						0.25 cup (37 g)

ITEM Data v4.0.0	ITEM Data v4.0.0									
		Field Rules								
	Step 1	Step 2	Step 3							
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values				
Serving_Size	R	C/ *NA	-	Numeric	Quantifies the weight of a serving (such as "ounces" or "grams").	1.3400				
_Weight					This should correspond to the values specified for the nutrients.					
						85.0000				
					Format: Up to 4 decimal places					
					Fither a value for Coming Cine Weight on Coming Cine Measure is	37.4900				
					Either a value for Serving Size weight or Serving Size Measure is					
					manuatory, both are optional but not required.					
					*Not applicable for items of type non-food.					
Serving_Size	С	C/ *NA	-	Text (100 char)	Describes the Unit of Measure for the Serving Weight.	OZ				
_Weight_UOM										
					Mandatory when Serving_Size_Weight is provided	grams				
					*Not applicable for items of type non-food.	pounds				
					Valid Values, or grome nounds					
Sonving Sizo	Р	C/ *NA		Numoric	Quantifies the measure or volume of a serving (such as "cup"	0.2500				
Measure	ĸ	C/ NA	-	Numeric	"fluid ounces" or "each") This should correspond to the values	0.2300				
_weasure					specified for the nutrients.	1.0000				
					Format: Up to 4 decimal places.					
					Either a value for Serving Size Weight or Serving Size Measure is					
					mandatory; both are optional but not required.					
	_	- (.k			*Not applicable for items of type non-food.					
Serving_Size	R	C/ *NA	-	Text (100 char)	Describes the Unit of Measure for Serving Measure.	cups				
_Measure_UOM					Mandatony when Serving Size Measure is provided					
					Manuatory when serving_size_measure is provided.					
					*Not applicable for items of type non-food	fluid-ounces				
					Valid Values: cups; each; tbsp; tsp; fluid-ounces; milliliters					

ITEM Data v4.0.0	ITEM Data v4.0.0									
	Field Rules									
	Step 1	Step 2	Step 3							
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values				
Meal_Credit	R	C/ *NA	-	Number	The Meal Credit Serving Size used as "basis" for the creditable	1.0000				
_Serving_Size					component claims. This value may be different than the Serving					
					Size specified for the item's nutrients, and applies to all meal	81.0000				
					component types. This may be either a Serving Size Weight or					
					Measure, but only one.	0.2500				
					Format: Up to 4 decimal places.					
					* Mandatory if Meal Credit Components are provided.					
					*Not applicable for items of type non-food.					
Meal_Credit	-	C/ *NA	-	Text (100 char)	Describes the Unit of Measure for the Meal Credit Serving Size.	oz				
_Serving_Size										
_UOM					* Mandatory when Meal_Credit_Serving_Size is provided.	cup				
					* Not applicable for items of type non-food.	each				
					Valid Values: oz; grams; pounds; cup; each; tbs; tsp; fluid ounce;	fluid ounces				
					milliliters					

Meal_Credits	-	C/ *NA	-	Text (4,000	Child Nutrition creditable component types and values.	[GRAIN_WHOLE_RICH][1.
				char)		0000][oz
					*Not applicable for non-food items.	eq] [MMA][2.0000][oz
						eq]
					Format: Delimited text field containing all meal credits for the	
					item. An item may have multiple creditable component types,	[GRAIN_WHOLE_RICH][2.
					which are all listed within this field.	0000][oz
						eq] [MMA][2.0000][oz
					All internal fields are required.	eq] [VEG_RED_ORANG
					Record delimiter: double-pipe	E][0.1250][cup]
					Field begin: Left square bracket [
					Field end: Right square bracket]	[CONDIMENT][][]
					Internal fields include:	
					Creditable Component	
					• Creditable Amount (number up to 4 decimal places)	
					Creditable Amount UOM	
					Valid Values for Creditable Amount UOM: oz-eq; cups; servings	
					Valid Values for Creditable Component:	
					MMA	
					MMA_EXTRA	
					MMA_GRAIN	
					GRAIN	
					GRAIN_WHOLE_RICH	
					GRAIN_DESSERT	
					GRAIN_WHOLE_RICH_DESSERT	
					PLAIN_DESSERT	
					VEG_DARK_GREEN	
					VEG_RED_ORANGE	
					VEG_BEANS_PEAS	
					VEG_STARCHY	
					VEG_OTHER	
					VEG_ADDITIONAL	
					FRUIT	
					JUICE_VEG_DG	
					JUICE_VEG_RO	
					JUICE_VEG_OTHER	
					JUICE_FRUIT	

ITEM Data v4.0.0						
		Field Rules				
	Step 1	Step 2	Step 3			
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values
					MILK_FF_FLAVORED	
					MILK_FF_UNFLAVORED	
					MILK_LF_FLAVORED	
					MILK_LF_UNFLAVORED	
					MILK_RF	
					CONDIMENT	
					NON_CREDITABLE	
Calories_kcal	-	M/ *NA		Numeric	Calories, in kilocalories, associated with the Serving Size	90.0000
					Weight/Measure.	
					Format: Up to 4 decimal places.	
					*Not applicable for non-food items	
Total Eat a		D / *NIA		Numoric	Total Eat in grams, associated with the Serving Size	0.0000
Total_rat_g	-	NY NA	-	Numeric	Weight/Measure.	0.0000
					Format: Up to 4 decimal places.	
					*Not applicable for non-food items.	
Trans_Fat_g	-	R/ *NA	-	Numeric	Trans Fat, in grams, associated with the Serving Size	0.0000
					Weight/Measure.	
					Format: Up to 4 decimal places.	
					*Not applicable for non-food items.	
Sat_Fat_g	-	M/ *NA	-	Numeric	Saturated Fat, in grams, associated with the Serving Size	0.0000
					Weight/Measure.	
					Format: Up to 4 decimal places.	
					*Not applicable for non-food items.	
Cholesterol_mg	-	R/ *NA	-	Numeric	Cholesterol, in milligrams, associated with the Serving Size	0.0000
					Weight/Measure.	
					Format: Up to 4 decimal places.	
					*Not applicable for non-food items.	

ITEM Data v4.0.0									
		Field Rules							
	Step 1	Step 2	Step 3						
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values			
Sodium_mg	-	M/ *NA	-	Numeric	Sodium, in milligrams, associated with the Serving Size Weight/Measure.	10.0000			
					Format: Up to 4 decimal places. *Not applicable for non-food items.				
Potassium_mg	-	R/ *NA	-	Numeric	Potassium, in milligrams, associated with the Serving Size Weight/Measure.	88.0000			
					Format: Up to 4 decimal places. *Not applicable for non-food items.				
Iron_mg	-	R/ *NA	-	Numeric	Iron, in milligrams, associated with the Serving Size Weight/Measure.	0.0000			
					Format: Up to 4 decimal places. *Not applicable for non-food items.				
Total_Carbs_g	-	R/ *NA	-	Numeric	Total Carbs, in grams, associated with the Serving Size Weight/Measure.	0.0000			
					Format: Up to 4 decimal places. *Not applicable for non-food items.				
Dietary_Fiber_g	-	R/ *NA	-	Numeric	Dietary Fiber, in grams, associated with the Serving Size Weight/Measure.	2.0000			
					Format: Up to 4 decimal places. *Not applicable for non-food items.				
Total_Sugar_g	-	R/ *NA	-	Numeric	Total Sugar, in grams, associated with the Serving Size Weight/Measure.	22.0000			
					Format: Up to 4 decimal places. *Not applicable for non-food items.				
Added_Sugar_g	-	R/ *NA	-	Numeric	Added Sugar, in grams, associated with the Serving Size Weight/Measure. This amount is included in the Total Sugar quantity.	22.0000			
					Format: Up to 4 decimal places. *Not applicable for non-food items.				

ITEM Data v4.0.0						
		Field Rules				
	Step 1	Step 2	Step 3			
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values
Protein_g	-	R/ *NA	-	Numeric	Protein, in grams, associated with the Serving Size Weight/Measure.	0.0000
					Format: Up to 4 decimal places. *Not applicable for non-food items.	
Calcium_mg	-	R/ *NA	-	Numeric	Calcium, in milligrams, associated with the Serving Size Weight/Measure.	6.0000
					Format: Up to 4 decimal places. *Not applicable for non-food items.	
Vitamin_A_mcg	-	R/ *NA	-	Numeric	Vitamin A, in micrograms, associated with the Serving Size Weight/Measure.	0.0000
					NOTE: The Unit of Measure is not in International Units (IUs). See https://www.fda.gov/food/cfsan-constituent-updates/fda-provides-guidance-industry-convert-units-measure-certain-putrients-nutrition-and-supplement	
					Format: Up to 4 decimal places. *Not applicable for non-food items.	
Vitamin_C_mg	-	R/ *NA	-	Numeric	Vitamin C, in milligrams, associated with the Serving Size Weight/Measure.	0.0000
					Format: Up to 4 decimal places. *Not applicable for non-food items.	
Vitamin_D_mcg	-	R/ *NA	-	Numeric	Vitamin D, in micrograms, associated with the Serving Size Weight/Measure.	0.0000
					Format: Up to 4 decimal places. *Not applicable for non-food items.	
Ingredient _Statement	-	R/ *NA	-	Text (5,000)	Ingredient statement.	Pasteurized Milk, Cheese Culture, Salt, Enzymes, Natamycin (a natural mold inhibitor).

Allergen_Claims	-	R/ *NA	-	Text (1,000)	The full set of allergen types and claims.	MILK,CONTAINS PEANU
		-				T, DOES NOT CONTAIN
					*Not applicable for non-food items.	·
					Format:	
					Delimited text field containing all allergen types and claims for	
					the item. An item may have multiple allergen types, which are all	
					listed within this field.	
					All internal fields are required	
					An internal fields are required.	
					Record delimiter: double-pipe	
					Comma used to separate Allergen from its Claim	
					Internal fields include:	
					Allergen Type	
					Allergen Claim	
					Valid Values for Allergen Type:	
					MILK	
					PEANUT	
					FISH	
					SOY	
					EGG	
					TREE_NUT	
					SHELLFISH	
					WHEAT	
					SESAME	
					Valid Values for Allergen Claim:	
					CONTAINS	
					MAY_CONTAIN	
					DOES_NOT_CONTAIN	
					FREE_FROM	
					NOT_INHERRENTLY_INCLUDED	
					DERIVED_FROM	
					NOT_DERIVED_FROM	
					UNDECLARED	
Country_Of	-	0	-	Text (25 char)	County of origin for the product.	United States
_Origin						
						CA, US

ITEM Data v4.0.0	TEM Data v4.0.0							
		Field Rules						
	Step 1	Step 2	Step 3					
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values		
					Format: Content includes various forms: country name, country- name abbreviation, or comma-separated abbreviations (for multiple countries). Translations for the GDSN Country Codes can be found here: <u>https://resources.gs1us.org/GS1-US-Data-Hub- Help-Center/ArtMID/3451/ArticleID/119/Country-Codes-Based- on-ISO-3166</u>	 MX		
GPC_Code	-	R	-	Numeric Text	Global Product Classification code used in GDSN. These classifications can be found at: <u>https://gpc-browser.gs1.org/</u> Format: A text value, containing only numeric digits, 8 characters in length.	10005778 10000219 10000245		
Storage _Instructions	-	0	-	Text (4,000 char)	Storage instructions.	Keep frozen until ready to use. Thaw overnight at room temperature. Shelf life at room temperature - 5-7 days. Room temperature, 60- 90F;		
Max_Storage _Temperature	-	0	-	Text (50 char)	Maximum storage temperature, preferably in degrees F. Format: Text content may include both the value and unit (degree F or C). Values without units usually Fahrenheit.	90 90F 10		
Min_Storage _Temperature	-	0	-	Text (50 char)	Minimum storage temperature, preferably in degrees F. Format: Text content may include both the value and unit (degree F or C). Values without units usually Fahrenheit.	33 -20 -20F		

ITEM Data v4.0.0						
		Field Rules				
	Step 1	Step 2	Step 3			
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values
Directions_And	-	0	-	Text (8,000)	Preparation instructions, directions, and/or notes for the item.	For best results, thaw
_Notes						calzones before heating.
					Format: Plain text or it may include HTML markup tags.	Ovens and microwaves
						may vary; cooking times
						may need to be adjusted.
						For Microwave (1000W),
						cook 1.5 to 2 minutes or
						until internal
						temperature reaches 160
						degrees. Additional
						cooking time may be
						required for lower
						wattage microwave
						ovens. Conventional
						oven: cook 10-12
						or until internal
						temperature reaches 160
						SAFETY ENSURE
						PRODUCT REACHES AND
						INTERNAL
						TEMPERATURE OF 160
						DEGREES F.
DEX_Local	-	М	М	Numeric	Unique identifier for item's procurement/inventory info within	2130
_Item_ID					the district's local database.	
						28525
					Format: Integer	
District	М	С	М	Text (50 char)	Unique identifier used in the district's existing software for the	SCRM01002
_ltem_ID					item's procurement/inventory information.	
					Mandatory from district software (Step 1 & 3) as appropriate per	
					software. Conditional from GDSN Connect (Step 2) depending on	
					if it was provided during Step 1; new items may not have it.	
Item_Name	C	M	R	Text (1,000	The name of the item as it is used in the district's inventory	Sour Cream
_Inventory				char)	system.	

ITEM Data v4.0.0	ITEM Data v4.0.0						
		Field Rules					
	Step 1	Step 2	Step 3				
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values	
Item_Name _Vendor	R	R	-	Text (1,000 char)	The name of the item as it is used by the vendor.	Cream Sour All Natural Stick Pack	
Purchase_Unit _Type	R	Μ	-	Text (50 char)	Standardized description of the item as it's procured (the "Purchase Unit"). Valid Values: Can be anything, but predefined values are Case, Pound, and Gallon.	Case Pound 50-pound bag	
GTIN_PU	R	R	-	Numeric Text (25 char)	The Purchase Unit GTIN for the product. This may be different from the Base Unit GTIN. Format: A numeric value 14 characters in length, including leading zeros. Mandatory for items from GDSN.	10889356009878 00856235005033	
Vendor_Name	М	Μ	-	Text (250 char)	Name of Vendor. When no vendor is assigned, the value will be "Unspecified".	Sysco USDA Commodity Foods Unspecified	
Vendor_Product _ID	С	R	R	Text (50 char)	Vendor's product-identifier for the item. For USDA Brown Box items, this would be the WBSCM code.	7071406	

ITEM Data v4.0.0						·
		Field Rules				
	Step 1	Step 2	Step 3			
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values
Vendor_Price	R	R	R	Text (1,000)	Price of the item from the Vendor and the effective date of that	2022/07/01,36.14,14.72,
					price, as well as the value of any donated foods and any	
					separately tracked handling fees. Current price is included, as well	2022/07/01,0.00,25.71,2.
					as any future set of pricing information.	14
					Format: Delimited text field containing all effective dates, price,	2022/07/01,12.4414,,
					and other info for the item.	2022/09/01,13.5122,
					All internal fields are required.	
					Record delimiter: double-pipe	
					Comma used to separate the different fields	
					Internal fields include:	
					Effective Date (Format: vvvv/mm/dd)	
					Commercial Price (Format: Numeric, up to 4 decimal places)	
					Donated Value (Format: Numeric, up to 4 decimal places)	
					Handling Fee (Format: Numeric, up to 4 decimal places)	
Net_Weight	R	М	-	Number	Net weight of the item.	6.2500
_Lbs						
					Format: Up to 4 decimal places.	
Servings_Per	R	M/ *NA	-	Number	Number of servings (as served) in one Purchase Unit.	100.0000
_Purchase_Unit						
					Format: Up to 4 decimal places.	
					*Net evelieshie fer een foed iteree	
laurantami Umit		N.4			*Not applicable for non-rood items.	
Turno	ĸ	171	-	Text (50 char)	(the "Inventory Unit")	Case
_туре					(the inventory offic).	 30-lb Case
					Valid Values: Can be anything but predefined values are Case	
					Pound Package Gallon Quart Pint Fach #10 Can #2 Can #2 5	Package
					Can. #3 Cvl. Can. #300 Can.	
Servings_Per	R	M/ *NA	-	Number	Number of servings (as served) in one Inventory Unit.	100
_Inventory_Unit						
					Format: Up to 4 decimal places.	
					*Not applicable for non-food items.	

ITEM Data v4.0.0						
		Field Rules				
	Step 1	Step 2	Step 3			
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values
IUs_Per_PU	R	М	-	Number	Number of Inventory Units in one Purchase Unit.	1
					Format: Up to 4 decimal places.	24
Servings_Per_LB	R	M/ *NA	-	Number	Number of servings (as served) in one Pound (as purchased).	16.0000
					Format: Up to 4 decimal places.	
					*Not applicable for non-food items.	
Contains	-	0	-	Text (10 char)	Denotes if the item is a USDA brown box item or a processed	TRUE
_Commodity					commodity.	
						FALSE
					Valid Values: TRUE, FALSE	
					*Not applicable for non-food items.	
Last_Changed	M	M	M	Text (20 char)	Date and time of when the record was last changed by the	2022/08/18 23:11
					district.	
					Format: yyyy/mm/dd hh:mm (in 24-hour format)	
Item_Report_URL	-	0	-	Text (1,000	A URL with the location of the Item Report file showing the	https://app.gdsnconnect.
				char)	product information about the item. Supported file type is PDF.	com/Images/ dae8b232-
						7c72-415c-801e-
						8a947213fcad.pdf

ITEM Data v4.0.0						•
		Field Rules				
	Step 1	Step 2	Step 3			
Field Name	(Initialize)	(Transfer)	(Refresh)	Data Type	Notes	Example Values
Menuable_Item	R	M / *N/A	-	Text (10 char)	Flag that specifies whether the menu item is directly usable on a	TRUE
					menu. This may be setup as a single item recipe within district's	
					software.	FALSE
					TRUE means that the item would be usable on a menu. This would be for menu items that are "heat and serve" (e.g., frozen pizza), individually wrapped items (e.g., muffin), or fresh produce (e.g., whole apple). FALSE means that the item would not be usable directly on a menu. This would be for menu items that are only used as ingredients in recipes (e.g., frozen pizza) or fresh produce (e.g., whole apple). Valid Values: TRUE, FALSE	
					*Not applicable for non-food items.	

Appendix C: Recipe Data File Format Specifications

The DEX export of each Recipe defines a collection of standardized Items (or other Recipes) which, together, make up a Recipe for use on menus.

Individual Records

Every Recipe Data file contains one row, and only one row, for each *active* Recipe in the database in GDSN Connect. Ingredients in the Recipe will have "DEX Local Menu ID" values to link those back to the Items in the Item File.

CSV Formatting Notes

The Item and Recipe export files are provided as a comma-separated-value (CSV) flat-file that adhere to the RFC 4180 guidelines (<u>https://www.rfc-editor.org/rfc/rfc4180.html</u>).

- Each file has a header row that contains the column names.
- All fields are enclosed in quotes ("), and any value that contains quotes within its text (e.g. 10" tortilla) will be replaced with a double quotes ("").
 - Example: The value from the example above will appear as "10"" Tortilla".
- Be careful when opening the data files in Excel because Excel re-formats GTINs (and other numerical values with 10+ digits) in scientific notation. If you save the Excel file back to a CSV file without properly re-formatting these values, it will save to the CSV file as scientific notation and lose many of the digits.

File Naming Conventions

Files are named to indicate the type of content (Item or Recipe), the date/time the export file was generated (in yyyymmddhhmm format with the hours in 24-hour format), and the file version of the export.

Example: ItemExport_202208161530_v2.0.0.csv

Images and Documents

Image and document files (e.g., product images, CN Label images) are stored on inTEAM's servers and the item and recipe data files contain the URL to access the image or document (credentials are not required). This is a common approach similar to how product images are shared via GDSN or student profile images are shared by Lifetouch.

Field Rules Meaning in Data Spec Tables

The Data Fields column in the data spec tables below have the following meanings to maintain maximum compatibility with the Nourish to Flourish data standards:

- M Mandatory: Required (in most cases) to ensure standardization and data quality.
- C Mandatory in some conditions: Required in certain situations (e.g., a unit of measure that qualifies a size or weight.)
- R Recommended: Provides highly useful information and is usually available (when available).
- O Optional: Provides useful information for some scenarios (when available).
- NA or (-) Not Applicable: Not applicable for some situations (e.g., nutrient values for Non-Foods items)

The section below describes the data elements within the **Recipe Data File**.

RECIPE Data v3.0.0				
_	Field Rules (Step 2			
Field Name	Transfer)	Data Type	Notes	Example Values
DEX_Local _Menu_ID	M	Numeric	Drique identifier for recipe's menu planning info within the district's local database in GDSN Connect.	601426
			Format: Integer	
District_Menu_ID	R	Text (50 char)	Unique identifier used in the district's existing software for the recipe.	ABC12345 SCRM010 36820
Recipe_Type	М	Text (20 char)	Denotes the type of recipe and how it's used.	Entree Side
		T 1/400	Valid Values: Entree, Side	
Recipe_Name	IVI	char)	appear on a Menu or Production Record.	Ground Beet Stroganoff Turkey and Cheese Sandwich
Recipe_Number	М	Text (100 char)	District assigned number for the recipe	USDA D-24 #1552
Meal_Session	М	Text (20 char)	Meal session that the recipe is created on. Valid Values : Breakfast; Lunch; Snack;	Lunch
.		T 1 (1 000	Supper; Other.	
Recipe_Image _URL	0	Text (1,000 char)	A list of URL(s) with the location of the image(s) associated with the recipe. If there are more than one, the first URL in the list is the primary file. Supported file types are JPG. Record delimiter: double-pipe Format: <url1> <url2> </url2></url1>	https://app.gdsnconnect.com/Cont ent/85ceb459-0989-42d2-ba4e- d03395bc3b10.jpg https://app.gdsnconnect.com/Cont ent /85ceb459-0989-42d2-ba4e- d03395bc3b10.jpg https://app.gdsnconnect.com/Cont ent/ dae8b232-7c71-415c-801e- 8a947213fcad.jpg
Serving_Size _Description	0	Text (1,000 char)	A description of the serving size.	1 bar 1 Hamburger 0.25 cup
Serving_Size _Weight	M*	Numeric	Quantifies the weight of a serving (such as "ounces" or "grams"). This should correspond to the values specified for the nutrients. Format: Up to 4 decimal places *Either a value for Serving Size Weight or Serving Size Measure is mandatory; both are optional but not required.	1.3400 85.0000 37.4900

RECIPE Data v3.0.0				
	Field Rules			
	(Step 2			
Field Name	Transfer)	Data Type	Notes	Example Values
Serving_Size	C	Text (100	Describes the Unit of Measure for the	OZ
_Weight_UOM		char)	Serving Weight.	
				grams
			Mandatory when Serving_Size_Weight	
			is provided	pounds
			Valid Values: oz, grams, pounds	
Serving_Size	M*	Numeric	Quantifies the measure or volume of a	0.2500
_Measure			serving (such as "cup", "fluid ounces",	
			or "each"). This should correspond to	1.0000
			the values specified for the nutrients.	
			Format: Up to 4 decimal places.	
			* Either a value for Serving Size Weight	
			or Serving Size Measure is mandatory;	
			both are optional but not required.	
Serving_Size	C	Text (100	Describes the Unit of Measure for	cups
_Measure		char)	Serving Measure.	
_UOM				each
			Mandatory when	
			Serving_Size_Measure is provided.	fluid-ounces
			Valid Values: cups: each: tbsp: tsp:	
			fluid-ounces; milliliters	
Yield	М	Numeric	The number servings the recipe will	50
			yield.	
				1
			Format: Integer	
Ingredient_Count	М	Numeric	The number of ingredients defined	9
			within the recipe. Provided to help	
			parsing the data elements from the	
			Ingredients.	
			Format: Integer	

RECIPE Data v3.0.0				
	Field Rules			
	(Step 2			
Field Name	Transfer)	Data Type	Notes	Example Values
Ingredients	M	Text (4,000 char)	List of ingredients used in the Recipe. Ingredients are either Items (from the Item Data File) or other Recipes in this file (referred to as sub-recipes), and are shown in the order in which they should appear in the recipe ingredient list. Format: Delimited text field containing all ingredients for the recipe. All internal fields are required. • Record delimiter: double-pipe • Field begin: Left square bracket [• Field end: Right square bracket] Internal fields include: • DEX Local Menu ID (from Item or Sub-Recipe record) • District Menu ID • Ingredient Name (text 100, could be different from Item Name) • Recipe Qty-Weight (number to 4 decimal places) • Recipe Qty-Weight UOM • Recipe Qty-Measure (number to 4 decimal places) • Recipe Qty-Measure UOM • PR Detail (text, TRUE denotes whether the ingredient appears separately on the Production Record to have a different qty) Valid Values for Recipe Qty-Measure UOM: cups; each; tbsp; tsp; fluid- ounces; milliliters Valid Values for PR Detail: TRUE,	[1323301][][Cream of Mushroom Soup][250.0000][oz][][][FALSE] [6 34223][][][Beef, Fine Ground, 85/15, Frozen][17.0000][pounds][][][FALSE] [1635783][Flour Wheat][9.0000][oz][2.1260][cup][F ALSE] [269229][] [Onions, Raw, Chopped][56.0000][oz][9.9220][cup][FALSE] [1957026][] [Spice Parsley Flakes][12.8640][grams][0.6700][cu p][FALSE] [1957026][] [Spice Garlic Powder][9.3000][grams][1.0000][ts p][FALSE] [1957081][] [Milk- Reconstituted]][][6.6700][cup][FAL SE] [1957027][] [Spice Pepper Black Ground][4.6000][grams][2.0000][ts p][FALSE]
			FALSE	

Field Name Field Rules (Step 2 Transfer) Data Type Notes Example Values Nutrient_Override M Text (10 char) Flag that specifies whether the recipe nutrients are calculated from the ingredients or entered directly at the recipe level. FALSE TRUE means that the recipe has meal credits, nutritional values, and allergens specified for the recipe as a whole; those values then become required. FALSE FALSE means the system automatically calculates the nutrients, et al values from the ingredients. FALSE means the system automatically calculates the nutrients, et al values	RECIPE Data v3.0.0				
Field Name Transfer) Data Type Notes Example Values Nutrient_Override M Text (10 char) Flag that specifies whether the recipe nutrients are calculated from the ingredients or entered directly at the recipe level. FALSE TRUE means that the recipe has meal credits, nutritional values, and allergens specified for the recipe as a whole; those values then become required. FALSE means the system automatically calculates the nutrients, et al values from the ingredients.		Field Rules (Step 2			
Nutrient_Override M Text (10 char) Flag that specifies whether the recipe nutrients are calculated from the ingredients or entered directly at the recipe level. FALSE TRUE means that the recipe has meal credits, nutritional values, and allergens specified for the recipe as a whole; those values then become required. FALSE FALSE means the system automatically calculates the nutrients, et al values from the ingredients. FALSE	Field Name	Transfer)	Data Type	Notes	Example Values
	Nutrient_Override	Μ	Text (10 char)	Flag that specifies whether the recipe nutrients are calculated from the ingredients or entered directly at the recipe level. TRUE means that the recipe has meal credits, nutritional values, and allergens specified for the recipe as a whole; those values then become required. FALSE means the system automatically calculates the nutrients, et al values from the ingredients.	FALSE

Meal_Credits	M/ *NA	Text (4,000	Child Nutrition creditable component	[GRAIN_WHOLE_RICH][1.0000][oz
		char)	types and values.	eq] [MMA][2.0000][oz eq]
		-		
			*Not applicable when	[GRAIN_WHOLE_RICH][2.0000][oz
			Nutrient_Override = FALSE.	eq] [MMA][2.0000][oz
			_	eq] [VEG RED ORANGE][0.1250][
			Format:	cup]
			Delimited text field containing all meal	
			credits for the item. An item may have	[CONDIMENT][][]
			multiple creditable component types.	
			which are all listed within this field.	
			All internal fields are required.	
			Record delimiter: double-pipe []	
			Field begin: Left square bracket [
			 Field end: Right square bracket] 	
			Internal fields include:	
			Creditable Component	
			Creditable Amount (number up to	
			4 decimal places)	
			Creditable Amount LIOM	
			Valid Values for Creditable Amount	
			UOM: 07-eq: cups: servings	
			Valid Values for Creditable	
			Component:	
			MMA	
			MMA EXTRA	
			MMA GRAIN	
			GRAIN	
			GRAIN WHOLE RICH	
			GRAIN DESSERT	
			GRAIN WHOLE RICH DESSERT	
			PLAIN DESSERT	
			VEG DARK GREEN	
			VEG RED ORANGE	
			VEG BEANS PEAS	
			VEG STARCHY	
			VEG_OTHER	
			VEG_ADDITIONAL	
			FRUIT	
			JUICE_VEG_DG	
			JUICE_VEG_RO	
			JUICE_VEG_OTHER	
			JUICE_FRUIT	
			MILK_FF_FLAVORED	
			MILK_FF_UNFLAVORED	
			MILK_LF_FLAVORED	
			MILK_LF_UNFLAVORED	
			MILK_RF	
			CONDIMENT	
			NON_CREDITABLE	

RECIPE Data v3.0.0					
- 11 M	Field Rules (Step 2				
Field Name	Transfer)	Data Type	Notes	Example values	
Calories_kcal	M/ *NA	Numeric	Calories, in kilocalories, associated with the Serving Size Weight/Measure.	90.0000	
			*Not applicable when		
			Nutrient Override = FALSE.		
Total_Fat_g	R/ *NA	Numeric	Total Fat, in grams, associated with the Serving Size Weight/Measure.	0.0000	
			Format: Up to 4 decimal places. *Not applicable when Nutrient_Override = FALSE.		
Trans_Fat_g	R/ *NA	Numeric	Trans Fat, in grams, associated with the Serving Size Weight/Measure.	0.0000	
			Format: Up to 4 decimal places. *Not applicable when Nutrient_Override = FALSE.		
Sat_Fat_g	M/ *NA	Numeric	Saturated Fat, in grams, associated with the Serving Size Weight/Measure. Format: Up to 4 decimal places. *Not applicable when	0.0000	
			Nutrient_Override = FALSE.		
Cholesterol_mg	R/ *NA	Numeric	Cholesterol, in milligrams, associated with the Serving Size Weight/Measure.	0.0000	
			Format: Up to 4 decimal places. *Not applicable when Nutrient_Override = FALSE.		
Sodium_mg	M/ *NA	Numeric	Sodium, in milligrams, associated with the Serving Size Weight/Measure.	10.0000	
			Format: Up to 4 decimal places. *Not applicable when Nutrient_Override = FALSE.		
Potassium_mg	R/ *NA	Numeric	Potassium, in milligrams, associated with the Serving Size Weight/Measure.	88.0000	
			Format: Up to 4 decimal places. *Not applicable when Nutrient_Override = FALSE.		
Iron_mg	R/ *NA	Numeric	Iron, in milligrams, associated with the Serving Size Weight/Measure.	0.0000	
			Format: Up to 4 decimal places. *Not applicable when Nutrient_Override = FALSE.		

RECIPE Data v3.0.0				
	Field Rules (Step 2			
Field Name	Transfer)	Data Type	Notes	Example Values
Total_Carbs_g	R/ *NA	Numeric	Total Carbs, in grams, associated with the Serving Size Weight/Measure.	0.0000
			*Not applicable when Nutrient Override = FALSE.	
Dietary_Fiber_g	R/ *NA	Numeric	Dietary Fiber, in grams, associated with the Serving Size Weight/Measure. Format: Up to 4 decimal places. *Not applicable when	2.0000
			Nutrient_Override = FALSE.	
Total_Sugar_g	R/ *NA	Numeric	Total Sugar, in grams, associated with the Serving Size Weight/Measure. Format: Up to 4 decimal places. *Not applicable when	22.0000
			Nutrient_Override = FALSE.	
Added_Sugar_g	R/ *NA	Numeric	Added Sugar, in grams, associated with the Serving Size Weight/Measure. This amount is included in the Total Sugar quantity. Format: Up to 4 decimal places. *Not applicable when Nutrient Override = FALSE.	22.0000
Protein_g	R/ *NA	Numeric	Protein, in grams, associated with the Serving Size Weight/Measure. Format: Up to 4 decimal places. *Not applicable when Nutrient Override = FALSE.	0.0000
Calcium_mg	R/ *NA	Numeric	Calcium, in milligrams, associated with the Serving Size Weight/Measure. Format: Up to 4 decimal places. *Not applicable when Nutrient_Override = FALSE.	6.0000
Vitamin_A_mcg	R/ *NA	Numeric	Vitamin A, in micrograms, associated with the Serving Size Weight/Measure. NOTE: This is not in IUs. See <u>https://www.fda.gov/food/cfsan-</u> <u>constituent-updates/fda-provides-</u> <u>guidance-industry-convert-units-</u> <u>measure-certain-nutrients-nutrition-</u> <u>and-supplement</u> Format: Up to 4 decimal places. *Not applicable when Nutrient Override = FALSE.	0.0000

RECIPE Data v3.0.0					
Field Name	Field Rules (Step 2 Transfer)	Data Type	Notes	Example Values	
Vitamin_C_mg	R/ *NA	Numeric	Vitamin C, in milligrams, associated with the Serving Size Weight/Measure. Format: Up to 4 decimal places. *Not applicable when Nutrient_Override = FALSE.	0.0000	
Vitamin_D_mcg	R/ *NA	Numeric	Vitamin D, in micrograms, associated with the Serving Size Weight/Measure. Format: Up to 4 decimal places. *Not applicable when Nutrient_Override = FALSE.	0.0000	

RECIPE Data v3.0.0					
Field Name	Field Rules (Step 2 Transfer)	Data Type	Notes	Example Values	
Allergen_Claims	R	Text (1,000)	The full set of allergen types and claims. *Not applicable for non-food items. Format: Delimited text field containing all allergen types and claims for the item. An item may have multiple allergen types, which are all listed within this field. All internal fields are required. • Record delimiter: double-pipe • Comma used to separate Allergen from its Claim Internal fields include: • Allergen Type • Allergen Claim Valid Values for Allergen Type: MILK PEANUT FISH SOY EGG TREE_NUT SHELLFISH WHEAT SESAME Valid Values for Allergen Claim: CONTAINS MAY_CONTAIN DOES_NOT_CONTAIN FREE_FROM NOT_INHERRENTLY_INCLUDED DERIVED_FROM NOT_DERIVED_FROM UNDECLARED	MILK,CONTAINS PEANUT, DOES_NOT_CONTAIN	

RECIPE Data v3.0.0				
Field Name	Field Rules (Step 2 Transfer)	Data Type	Notes	Example Values
Directions_And _Notes	0	Text (8,000)	Preparation instructions, directions, and/or notes for the item. This is a simple data entry field that does not contain any link to ingredients. Format: Plain text or it may include HTML markup tags.	For best results, thaw calzones before heating. Ovens and microwaves may vary; cooking times may need to be adjusted. For Microwave (1000W), cook 1.5 to 2 minutes or until internal temperature reaches 160 degrees. Additional cooking time may be required for lower wattage microwave ovens. Conventional oven: cook 10-12 minutes at 350 degrees or until internal temperature reaches 160 degrees. FOR FOOD SAFETY, ENSURE PRODUCT REACHES AND INTERNAL TEMPERATURE OF 160 DEGREES F.
Last_Changed	М	Text (20)	Date and time of when the record was last changed by the district. Format: yyyy/mm/dd hh:mm (in 24- hour format)	2022/08/18 23:11

Appendix D: Vendor Item Upload File Format Specifications

This format is used primarily to setup GDSN Connect using reports from a district's vendor and is not the preferred approach to setup data from a district's software.

The file format is an Excel file. The file name is not important.

Each row in the report is a single item procured from a single vendor. The data can be constructed so that each file only has data for one vendor, or it can contain data from all vendors. If an item can be purchased from two vendors, then it should be in two different rows (or separate reports).

NOTE: This format does not support ingredient items, only procured items tied to a vendor.

The vendor report to upload into GDSN Connect for matching purposes should contain the following information about each item:

VENDOR ITEM UPLOAD Data					
Column	Field Name	Mandatory/ Conditional/	Description or Notes		
Number		Optional	Name that the Vendor uses for the Item. District can use a		
1	Vendor Item Name	М	different name for the item internally, see Item Name field below.		
2	Pack Size	0	Pack Size of the item		
3	Vendor Product ID	М	ID that the Vendor has assigned to the Item		
4	GTIN	0	GTIN. Used to exactly match to an item to get nutrients, allergens, and supply chain information. Be sure that this is formatted as either a text field or a special field of type 0000000000000, otherwise Excel may display the value in scientific notation and potentially lose some digits.		
5	Brand Name	0	Used to help search for product if GTIN is unavailable		
6	Manufacturer Product ID	0	Used to help search for product if GTIN is unavailable		
7	Net Weight (Lbs)	С	Used to help search for product if GTIN is unavailable; required if matched to a Generic Equivalent item		
8	Servings Per Pack	0	Used to help search for product if GTIN is unavailable. This can often be found within the Vendor Item Description or Pack Size.		
9	Serving Size Value	0	Used to help search for product if GTIN is unavailable. This can often be found within the Vendor Item Description or Pack Size.		
10	Serving Size Unit Of Measure	0	Used to help search for product if GTIN is unavailable. This can often be found within the Vendor Item Description or Pack Size. It must be populated if Serving Size Value is entered, and must use one of the predefined values.		
11	Procurement Category	0	Used to help search for product if GTIN is unavailable. This must use one of the predefined values in GDSN Connect for the district.		
12	Price Effective Date	С	Required if Commercial Price is entered. If Contract # is entered, then the date must be within the configured Contract Start and End Dates. If not, then the price will not be added.		
13	Commercial Price	0	Price of the pack, net of any commodity value.		

VENDOR ITEM UPLOAD Data				
Column Number	Field Name	Mandatory/ Conditional/ Optional	Description or Notes	
14	Handling Fee	0	Handling fee for the pack, if tracked separately from Commercial Price	
15	Donated Value	0	Value of any USDA Foods ingredients	
16	Value Pass Thru Method	0	 Value pass through method for donated foods. Valid values include the following text values: Net Off Invoice Fee For Service Rebate 	
17	District Item ID	С	ID that the District uses internally to identify the Item as used for inventory/purposes. Required if the report is from the District software's inventory system and needs this value to match upon.	
18	District Menu ID	С	ID that the District uses internally to identify the Item as used on menus; this may be an ingredient and/or recipe ID. Required if the report is from the District software's menu planning system and needs this value to match upon.	
19	Item Name	0	Optionally used to assign a specific name to the Item already in use by the district (e.g. to match with the inventory purposes). If this is blank, then the name from the N2F Database will be used.	
20	Vendor Name	M	Name of the vendor that the item is procured from.	