MAGIC Standard Financial Inbound Interface (SFII) Overview

The SFII is for **inbound financial transactions** only—that is, financial data sent by an agency to DFA for upload into MAGIC.

In SAAS, interfaces required a different record format for each document type to be uploaded. In MAGIC, there is one agency interface format for all standard financial transactions. The format and file layout for the MAGIC interface differ significantly from the interfaces agencies used with SAAS.

The standard MAGIC financial interface can be used for the following transaction types. The corresponding SAAS document type is shown in parentheses:

- G/L Account Document (JV)

- Revenue Cash Posting (CR)

- Customer Invoice (IN)

- Vendor Invoice (PV)

Note that, in MAGIC, purchase orders and contracts MUST be processed within the system and cannot be uploaded via an interface.

The SAAS interface processed batches of documents (transactions) and contained a Batch Header, with a Document Header and Document Line record(s) for each transaction. The MAGIC interface is not batch processed and does not have a Batch Header. The MAGIC interface file does have transaction header and transaction line information similar to transactions interfaced into SAAS. However, the MAGIC interface transactions require both debit and credit lines for each transaction. That is, each transaction should net out to zero via the combination of debit and credit lines. For example, a SAAS payment voucher consists of a Document Header for the Vendor, with five Document Lines representing the detail line items. In MAGIC, the invoice payment consists of a transaction header for the Vendor, five debit lines representing detail line items, and one credit line for the total invoice amount.

Each transaction line requires a MAGIC "posting key" that identifies the type of transaction and whether the line is a debit or a credit. Transaction lines do **not** require a negative or positive [+ or – sign] to represent the amount. Posting key details are located on the MAGIC website under "FIGM System Documentation," "Workflow," "MAGIC Doc Type Listing."

NOTE: For general ledger entries, the GL account code is required for both the debit and the credit lines. For vendor invoice transactions, the line that represents the liability will not include the balance sheet account code. For customer invoice transactions, the line that represents the receivable will not include the balance sheet account code. For these vendor and customer invoice transactions, MAGIC will derive the correct account based on the vendor number or the customer number.

The "SAAS-MAGIC Data Mapping" tab of the FI Interface Upload spreadsheet shows a comparison between SAAS fields and MAGIC interface file fields, where applicable.

Some of the SAAS interface fields are not applicable to the MAGIC interface, and some MAGIC interface fields do not have corresponding values in the SAAS interface, so do not try to create a one-to-one mapping. Agencies may choose to retrofit legacy systems to accommodate new MAGIC field lengths and codes or may use cross-walk tables to translate legacy values to MAGIC values when creating their interface files, as further discussed below.

SAAS codes and values such as agency number, fund numbers, appropriation units, vendor numbers, and provider numbers have new values and field lengths in MAGIC and will often be referred to by a different name. This tab contains high-level explanations of new MAGIC terminology, but it is critical for agency SuperUsers and/or financial staff members who have participated in MAGIC meetings and have knowledge of MAGIC's data work closely with agency IT staff to explain these changes and provide a list of new values assigned for their agency. While some agencies will choose to modify their legacy systems to accommodate the new MAGIC field lengths and values, other agencies will use cross-walk tables that will be provided in MAGIC to convert legacy values to MAGIC fields. Cross-walk tables available in MAGIC will include vendor numbers and General Ledger account numbers. Other agency-specific cross-walk tables can be constructed by the agency for additional fields, as required.

Documentation on the standard financial interface file format can be found on the "Field Description" tab of the FI Interface Upload spreadsheet. The "Header & Line Field Layout" tab indicates which fields are applicable to each account type – GL, Cash, LIV (Logistics Invoices), Customer, and Vendor. Not all applicable fields are REQUIRED for a transaction / account type. Refer to the "Fill Instructions" column on the SAAS-MAGIC Data Mapping" tab for information on required fields. The term "auto-populated" used with certain fields indicates that the system will determine the appropriate value and populate the field as the interface record is processed in MAGIC.

Transactions are interfaced into MAGIC through a tab-delimited file. Agencies will create tab-delimited files for upload into MAGIC, with up to 900 lines per document (transaction). Agencies can create the financial transactions using an Excel template. The "Interface Template" tab of the FI Interface Upload spreadsheet shows sample financial transactions using generic data in the appropriate Excel file layout. After creating the financial document(s) using the Excel template, agencies will save the data to a tab-delimited file before uploading the information into MAGIC. Note that the tab-delimited file must not contain any special characters (i.e. files should be limited to alpha (a-z) and numeric (0-9) characters); however, a decimal point may be used for amount fields and other fields where appropriate (e.g., an amount of $100 can be represented as 100.00 or 100, without commas or dollar sign; a WBS element may contain decimals, etc.). The source data must not contain any tabs—the only tabs in the upload file should be those created by Excel in the .txt file to delimit fields.

Agencies can either (a) use transaction code ZFGL_JV_INTF to upload the tab-delimited financial interface files or (b) FTP their tab-delimited files to agency-specific folders and sub-folders on the MAGIC FTP server. If transaction code ZFGL_JV_INTF is used for uploading, the tab-delimited file must be created and saved locally before initiating the upload transaction. For FTP uploads, agencies will use the generic user name and password established for each agency to allow access to its folders and sub-folders. The standard financial interface will run on a periodic basis (hourly from 9:00AM to 6:00pm, Monday to Friday, excluding holidays) and will process all files in the agency's folder. Files will be archived after they have been processed.

If transaction code ZFGL_JV_INTF is used for uploading, the error files will be written locally as specified on the selection screen. For FTP uploads, the interface will write processing log files to two agency subfolders: SUCCESS and ERROR. Error correction is required for any rejected items. Documents will

load to MAGIC in parked status. Documents will still go through workflow approval and be routed based on rules for the specific document type.

NOTES:

i.   Agencies do not need to take any action regarding the SPAHRS-to-MAGIC interface that will run between Phase I Go-Live and Phase II Go-Live. This interface is handled by the project team.

ii.   Agencies that use the Sales and Distribution (SD) module of MAGIC for interagency billing will use the standard interface for all inbound financial interfaces EXCEPT SD billing. The Sales and Distribution transactions require a different file format.

iii.   The budget upload process in MAGIC requires a different file format than the standard inbound financial interface described in this document.