**MICR Schematron**

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# 1. Validation Lookup - Setting End Dates on Errors

## a. Summary and Reason for Process

When making an update to an error (or adding a new error) in the MICR schematron, the code needs to run efficiently, and not take in extra data from our database that is unneeded. For errors that are present in older versions of the schematron, many of these errors use information from the MICR\_SCHEMATRON\_VALIDATION\_LKP table in LOOKUPDBA, which corresponds to the val\_lookup variable in the schematron xml code. And many of the error messages are hard-coded in the schematron code.

This is an old way of making schematron errors work, but we have started converting to a new way of doing this, using error messages that are stored in the MICR\_EDITS\_LKP table in LOOKUPDBA, and having the schematron code reference those database-stored error messages, instead of hard-coded ones. This new process is explained in more detail in the [New Method for Schematron Edits.docx](New%20Method%20for%20Schematron%20Edits.docx) document.

So if an error in a newer version of the schematron does not use the val\_lookup variable (which means it does not need to reference the MICR\_SCHEMATRON\_VALIDATION\_LKP table), then any information for that error in the MICR\_SCHEMATRON\_VALIDATION\_LKP table should not be taken in for that version of the schematron. So what needs to happen going forward, is any records for that error message in the MICR\_SCHEMATRON\_VALIDATION\_LKP table, should have an end date set for them that will prevent them from being brought in to that newer version of the schematron. This will increase the efficiency of the newer versions of the schematron, by not dumping extra, unneeded data into it. But by setting a proper end date on the records in the MICR\_SCHEMATRON\_VALIDATION\_LKP table, instead of just removing the records, this will also allow older versions of the schematron that still need to use those records, to still work and function as they need to.

Whenever any records in the MICR\_SCHEMATRON\_VALIDATION\_LKP table are updated, the XML file refresh process also needs to be run. This is done in the XML\_FILE\_MAINTENANCE table in MICRXMLDBA, by setting the REFRESH\_FLAG to ‘Y’ for the “SCHEMATRON\_VALIDATION\_LOOKUP” row in that table. Doing this in the dev database will automatically regenerate the XML file (in the dev server) that is associated to the MICR\_SCHEMATRON\_VALIDATION\_LKP table, which the schematron references. This step is needed because the schematron does not actually directly reference any information in the database tables. It instead uses the information in these generated XML files that are associated to the database tables. The next section shows details and instructions for how to determine when an end date needs to be set for certain records, how to determine what the end date should be, and how to add documentation for all the needed information in the [Validation Lookup - Errors to End-date.xlsx](file:///\\mspad\dfs\DIT_AS\MSP_CJDC_APPLDEV\MICR\MICR%20Schematron%20Documentation\Validation%20Lookup%20-%20Errors%20to%20End-date.xlsx) excel document.

## b. Steps for Process

After adding or modifying a schematron error in the MICR\_EDITS\_LKP table:

1. Add a row, or modify the existing row, for that error in the [Validation Lookup - Errors to End-date.xlsx](Validation%20Lookup%20-%20Errors%20to%20End-date.xlsx) file. Fill in or update all the needed information for that error in that row.

2. If your error does not use the val\_lookup variable in the schematron code, for any version, then there should not be any records for that error number in the MICR\_SCHEMATRON\_VALIDATION\_LKP table.

a. If there are not any records for that error number in the table, then no changes need to be made to the table.

b. If there are records for that error number in the table, then you need to set the end date for each record to the day before the effective date for the earliest version of the schematron that we want to exclude records from, from the MICR\_SCHEMATRON\_VALIDATION\_LKP table. Currently, this is schematron version 1.3.0. But no matter what, whenever you want to exclude records in this table from a particular schematron version and higher, then you will want to set the end date for each record to the day prior to when that version of the schematron takes effect. For example, if you are removing a record from version 1.3.0 and higher, then set that record’s end date to 08/05/2019, since version 1.3.0’s effective date is 08/06/2019.

3. If your code for an edit does not use the val\_lookup variable, but an older schematron version’s code does use it, then there should be some records for that error number in the MICR\_SCHEMATRON\_VALIDATION\_LKP table.

a. If there are not any records for that error number in the table, then no changes need to be made to the table (it may be because the older version of the schematron code is actually using a different error number, that has already been accounted for).

b. If there are records for that error number in the table, then you need to set the end date for each record to the day before the effective date for the first schematron version that does not use the val\_lookup variable, to exclude those records from that version and above. See the example explained in point 2b above, for more clarification.

4. If your code uses the val\_lookup variable, then there should be some records for that error number in the MICR\_SCHEMATRON\_VALIDATION\_LKP table.

a. If there are not any records for that error number in the table, then no changes need to be made to the table (it may be because your code is actually using a different error number, that has already been accounted for).

b. If there are records for that error number in the table, then no changes are needed at this time, because this error is still using the val\_lookup variable in the newest version of the schematron.

5. If the new end date of a record you update would be prior to that record’s original effective date, make sure to also set the effective date to match the new end date.

NOTE: If any record that you need to set an end date for already has an end date prior to the date you would have set, then DO NOT CHANGE THAT ORIGINAL END DATE, but still change the end dates for all the other records that you need to, for that error number.