Topics

1 What is the Transaction Reporting Lifecycle?

- Purpose of transaction reporting lifecycle validation and compatibility software

- Validation and compatibility software check process

2 Case Studies

- Transaction Lifecycle Update

- Transaction Lifecycle and the NMMSS database

Developed by: LINK Technologies
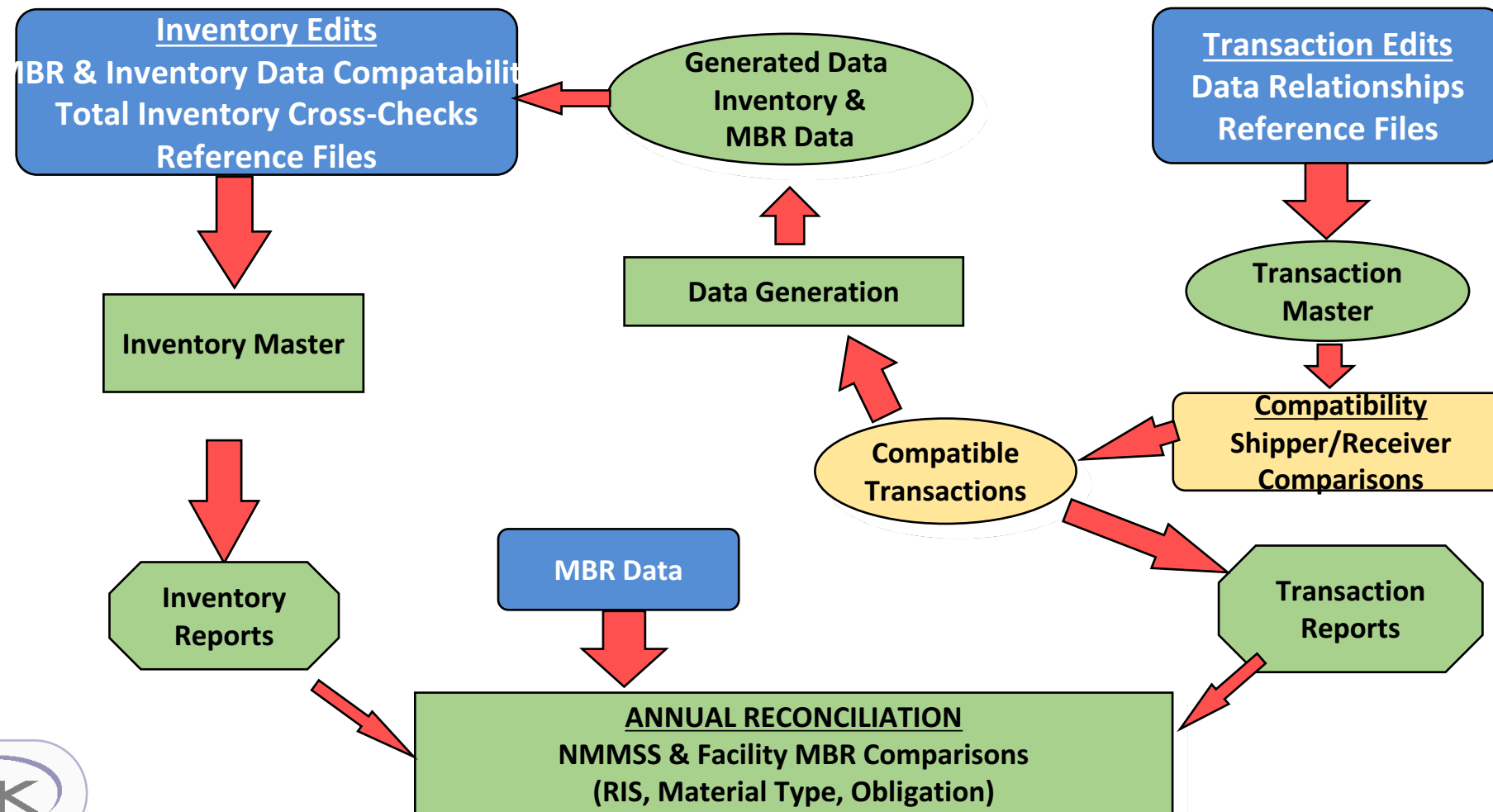
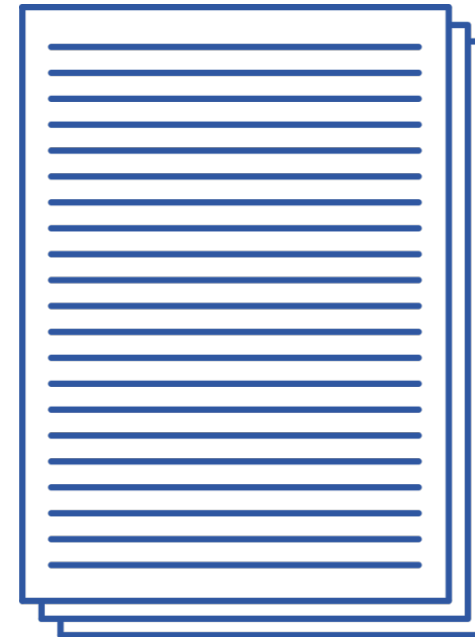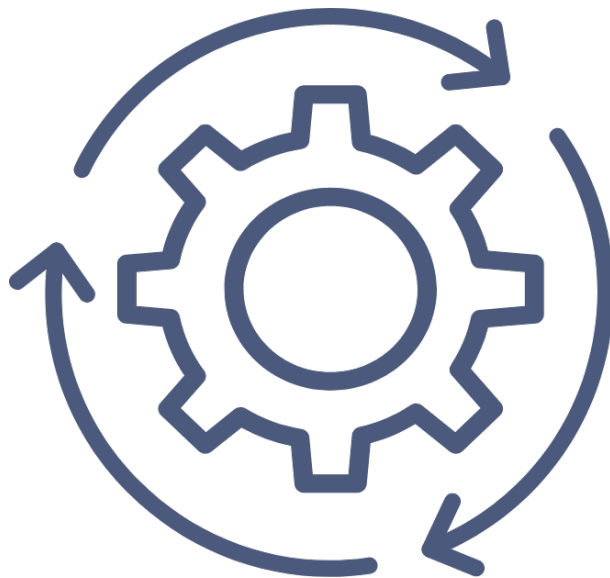# Purpose of reporting lifecycle/compatibility software

Topic 1

Reporting Lifecycle and Data Integrity

Compatibility Software

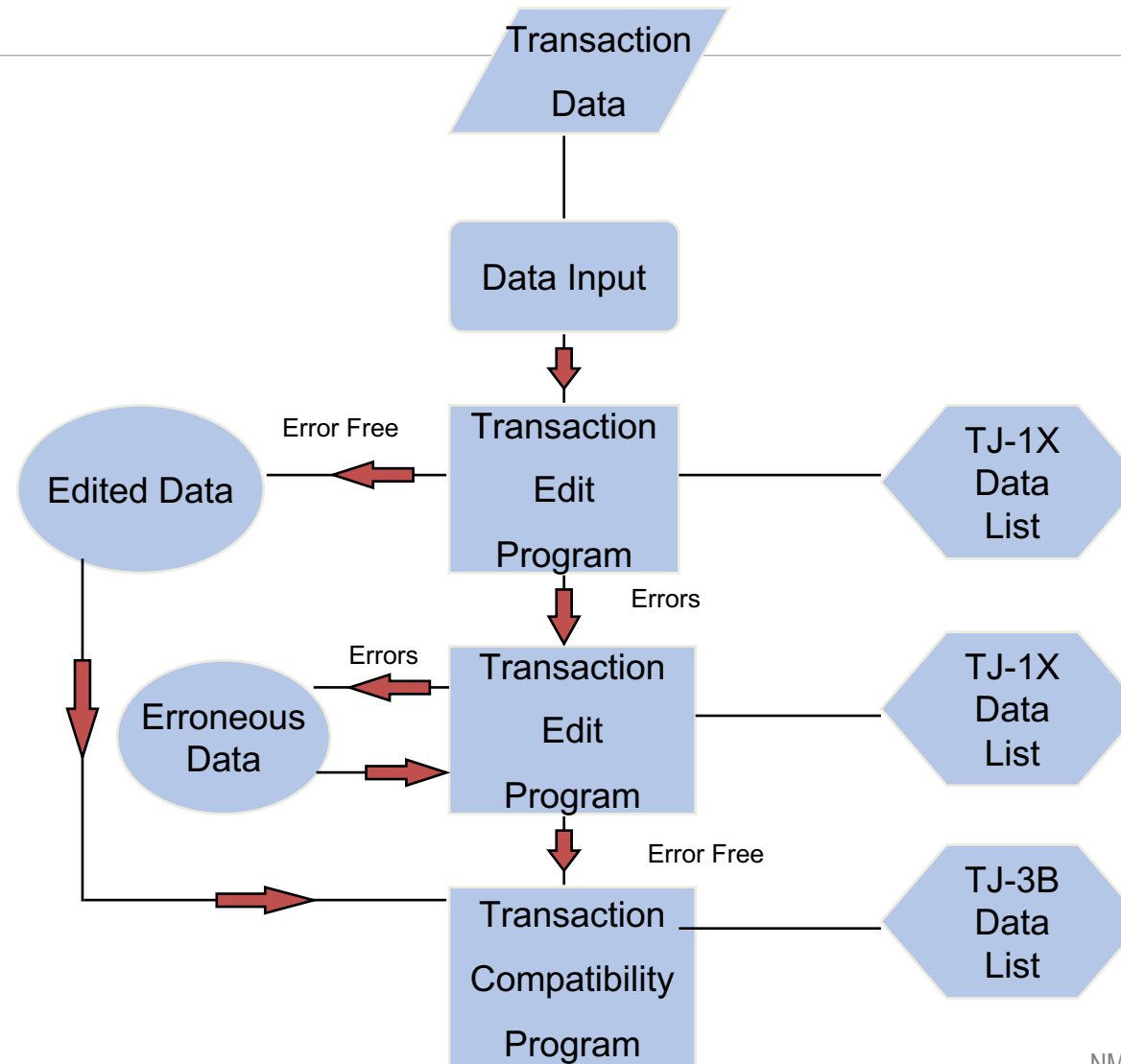- Performs compatibility edits on validated shipper and receiver data sets
- Produces TJ-3B report

Transaction Edit Process

- Performs initial validation on transaction data imported into NMMSS or transactions modified within NMMSS

- Repeat transaction data validation until errors are resolved

- Produces the TJ-1X data list

- Depends on process codes to drive its functions

Validating Transaction Data

Process Code Checks

- **A – Add a transaction**
  - Is the transaction a duplicate?
  - Looks for other side of document; if the action code is "B", is there an "E" already on file?
- **C– Replace a transaction**
  - Is the original on file?
  - Was the original processed in a current open processing month?
- **D – Delete a transaction**
  - Is the transaction on the NMMSS database?
  - Was the transaction to be deleted added to the NMMSS database in a current open processing month?

Process/Action Code Combinations

The combination of process and actions are critical to understanding the NMMSS reporting lifecycle and the process of compatibility evaluation.

Shipper's Intent	Process Code	Action Code
Original	A	A
Replacement	C	A
Adjustment	A	C
Replacement Adjustment	C	C

Compatibility Process

- Compatibility edits on validated shipper and receiver data sets are performed.

- Facilities are notified of compatibility errors requiring resolution.
  - Receiver's data will retain compatibility errors until shipper's data is received by NMMSS.
  - For DOE reporting, shipper-reported 741 transaction that remains in-transit past the end of the month will retain compatibility errors until a J action code receipt is reported.
  - For DOE reporting, material in transit at the end of a reporting period is entered into the intended receiver's inventory.

Case Studies

Topic **2**

Case Study

1

Transaction Lifecycle Update

Case Study

1

Transaction Lifecycle Update

1. ABC ships 9 cylinders of depleted uranium to ABF on 02/03/2021 and reports the transaction, transaction number 52, to NMMSS the same day.

2. ABF, on 02/10/2021, acknowledges the receipt of the shipment by informing ABC that because of a backlog of work, their lab will not be able to complete measurement for at least two weeks. ABF provides this information to NMMSS the same day.

3. ABC determines on 02/22/2021 it actually shipped 10 cylinders to ABF on 02/03/2021 and notifies ABF that a correction document will be provided. ABC also provides this information to NMMSS on 02/22/2021.

4. Maintenance workers at ABF go on strike. Subsequently, on 02/22/2021, ABF informs ABC that their lab will not be able to complete measurement in the immediate future. ABF provides this information to NMMSS the same day using the original action date 02/10/2021.

5. ABF acknowledges ABC's correction on 02/26/2021 and provides this information to NMMSS the same day.

6. On 02/27/2021, ABC discovers that the NMMSS was provided with the wrong batch name when data was transmitted for the adjustment document for transaction number 52. The document provided to ABF was correct. The NMMSS is provided the correct information on 02/27/2021.

7. An unexpected end to the strike at ABF allows the lab to assume normal operations. On 03/08/2021, ABF provides ABC with their measurements and provides this information to NMMSS the same day.

8. The clerk at ABC has made an error when transmitting the batch name on the adjustment document for transaction number 52 to the NMMSS by transposing two numbers. On 03/20/2021, ABC provides NMMSS with the correct batch name.

Populate the transaction lifecycle worksheet based on the eight transaction activities listed above.

Case Study

(1)

Solution:

List below the entries that would reflect the statements in Case Study 1.

	Process Code	Action Code	Shipper	Receiver	Transaction Number	Change Digit	Action Date	Process Date	Capture Date
1.	A	A	ABC	ABF	00000052		2/03/2021	202102	2/03/2021
2.									
3.									
4.									
5.									
6.									
7.									
8.									

1. ABC ships 9 cylinders of depleted uranium to ABF on 02/03/2021 and reports the transaction, transaction number 52, to NMMSS the same day

Case Study

(1)

Solution(continued) :

List below the entries that would reflect the statements in Case Study 1.

	Process Code	Action Code	Shipper	Receiver	Transaction Number	Change Digit	Action Date	Process Date	Capture Date
1.	A	A	ABC	ABF	00000052		2/03/2021	202102	2/3/2021
2.	A	N	ABC	ABF	00000052		2/10/2021	202102	2/10/2021
3.									
4.									
5.									
6.									
7.									
8.									

2. ABF, on 02/10/2021, acknowledges the receipt of the shipment by informing ABC that because of a backlog of work, their lab will not be able to complete measurement for at least two weeks. ABF provides this information to NMMSS the same day.

Case Study

(1)

Solution(continued):

List below the entries that would reflect the statements in Case Study 1.

	Process Code	Action Code	Shipper	Receiver	Transaction Number	Change Digit	Action Date	Process Date	Capture Date
1.	A	A	ABC	ABF	00000052		2/03/2021	202102	2/03/2021
2.	A	N	ABC	ABF	00000052		2/10/2021	202102	2/10/2021
3.	A	C	ABC	ABF	00000052	1	2/03/2021	202102	2/22/2021
4.									
6.									
7.									
8.									

3. ABC determines on 02/22/2021 they shipped 10 cylinders to ABF on 02/03/2021 and notifies ABF that a correction document will be provided. ABC also provides this information to NMMSS on 02/22/2021.

Case Study

1

Solution(continued):

List below the entries that would reflect the statements in Case Study 1.

	Process Code	Action Code	Shipper	Receiver	Transaction Number	Change Digit	Action Date	Process Date	Capture Date
1.	A	A	ABC	ABF	00000052		2/03/2021	202102	2/03/2021
2.	A	N	ABC	ABF	00000052		2/10/2021	202102	2/10/2021
3.	A	C	ABC	ABF	00000052	1	2/10/2021	202102	2/22/2021
4.	A	U	ABC	ABF	00000052		2/10/2021	202102	2/22/2021
5.									
6.									
7.									
8.									

4. Maintenance workers at ABF go on strike. Subsequently, on 02/22/2021, ABF informs ABC that their lab will not be able to complete measurement in the immediate future. ABF provides this information to NMMSS the same day using the original action date 02/10/2021.

Case Study

①

Solution(continued):

List below the entries that would reflect the statements in Case Study 1.

	Process Code	Action Code	Shipper	Receiver	Transaction Number	Change Digit	Action Date	Process Date	Capture Date
1.	A	A	ABC	ABF	00000052		2/03/2021	202102	2/03/2021
2.	A	N	ABC	ABF	00000052		2/10/2021	202102	2/10/2021
3.	A	C	ABC	ABF	00000052	1	2/10/2021	202102	2/22/2021
4.	A	U	ABC	ABF	00000052		2/10/2021	202102	2/22/2021
5.	A	D	ABC	ABF	00000052	1	2/26/2021	202102	2/26/2021
6.									
7.									
8.									

5. ABF acknowledges ABC's correction on 02/26/2021 and provides this information to NMMSS the same day.

Case Study

1

Solution(continued):

Transaction Lifecycle Update

List below the entries that would reflect the statements in Case Study 1.

	Process Code	Action Code	Shipper	Receiver	Transaction Number	Change Digit	Action Date	Process Date	Capture Date
1.	A	A	ABC	ABF	00000052		2/03/2021	202102	2/03/2021
2.	A	N	ABC	ABF	00000052		2/10/2021	202102	2/10/2021
3.	A	C	ABC	ABF	00000052	1	2/10/2021	202102	2/22/2021
4.	A	U	ABC	ABF	00000052		2/10/2021	202102	2/22/2021
5.	A	D	ABC	ABF	00000052	1	2/10/2021	202102	2/22/2021
6.	A	C	ABC	ABF	00000052	B	2/10/2021	202102	2/27/2021
7.									

6. On 02/27/2021, ABC discovers that the NMMSS was provided with the wrong batch name when data was transmitted for the adjustment document for transaction number 52. The document provided to ABF was correct. The NMMSS is provided the correct information on 02/27/2021.

Case Study

(1) Solution(continued):

List below the entries that would reflect the statements in Case Study 1.

	Process Code	Action Code	Shipper	Receiver	Transaction Number	Change Digit	Action Date	Process Date	Capture Date
1.	A	A	ABC	ABF	00000052		2/03/2021	202102	2/03/2021
2.	A	N	ABC	ABF	00000052		2/10/2021	202102	2/10/2021
3.	A	C	ABC	ABF	00000052	1	2/10/2021	202102	2/22/2021
4.	A	U	ABC	ABF	00000052		2/10/2021	202102	2/22/2021
5.	A	D	ABC	ABF	00000052	1	2/10/2021	202102	2/22/2021
6.	A	C	ABC	ABF	00000052	B	2/10/2021	202102	2/27/2021
7.	A	E	ABC	ABF	00000052		3/08/2021	202103	3/08/2021

7. An unexpected end to the strike at ABF allows the lab to assume normal operations. On 03/08/2021, ABF provides ABC with their measurements and provides this information to NMMSS the same day.

Case Study

(1)

Solution(continued):

List below the entries that would reflect the statements in Case Study 1.

	Process Code	Action Code	Shipper	Receiver	Transaction Number	Change Digit	Action Date	Process Date	Capture Date
1.	A	A	ABC	ABF	00000052		2/03/2021	202102	2/03/2021
2.	A	N	ABC	ABF	00000052		2/10/2021	202102	2/10/2021
3.	A	C	ABC	ABF	00000052	1	2/10/2021	202102	2/22/2021
4.	A	U	ABC	ABF	00000052		2/10/2021	202102	2/22/2021
5.	A	D	ABC	ABF	00000052	1	2/10/2021	202102	2/22/2021
6.	A	C	ABC	ABF	00000052	B	2/10/2021	202102	2/27/2021
7.	A	E	ABC	ABF	00000052		3/08/2021	202103	3/08/2021
8.	A	C	ABC	ABF	00000052	C	2/10/2021	202102	3/20/2021

8. The clerk at ABC has made an error when transmitting the batch name on the adjustment document for transaction number 52 to the NMMSS by transposing two numbers. On 03/20/2021, ABC provides NMMSS with the correct batch name.

Case Study
2

Transaction Lifecycle and the NMMSS Database

Case Study

(2)

Transaction Lifecycle and the NMMSS Database

Transaction Lifecycle and the NMMSS Database

The following transactions were reported to NMMSS:

	Process Code	Action Code	Shipper	Receiver	Transaction Number	Change Digit	Action Date	Process Date	Capture Date
1.	A	A	ABC	DEF	00000001		4/15/2021	202104	4/15/2021
2.	A	B	ABC	DEF	00000001		4/17/2021	202104	4/17/2021
3.	C	A	ABC	DEF	00000001		4/15/2021	202104	4/18/2021
4.	A	C	ABC	DEF	00000001	1	4/19/2021	202104	4/19/2021
5.	A	D	ABC	DEF	00000001	1	4/20/2021	202104	4/20/2021
6.	C	D	ABC	DEF	00000001	1	4/20/2021	202104	4/21/2021
7.	D	D	ABC	DEF	00000001	1		202104	4/23/2021
8.	A	D	ABC	DEF	00000001	1	4/20/2021	202104	4/24/2021

Determine what facility records are retained in NMMSS at the closing of the April 2021 processing period.

Case Study

(2)

Solution:

The following transactions facility records are retained in NMMSS at the closing of the April 2021 processing period.

Process Code	Action Code	Shipper	Receiver	Transaction Number	Change Digit	Action Date	Process Date	Capture Date
A	B	ABC	DEF	00000001		4/17/2021	202104	4/17/2021
C	A	ABC	DEF	00000001		4/15/2021	202104	4/18/2021
A	C	ABC	DEF	00000001	1	4/19/2021	202104	4/19/2021
A	D	ABC	DEF	00000001	1	4/20/2021	202104	4/24/2014

Summary

1 **What is the Transaction Reporting Lifecycle?**

- Describe the purpose of transaction reporting lifecycle validation and compatibility software.

- Describe the validation and compatibility software check process.

2 **Case Studies**

- Demonstrate examples of transaction lifecycle reporting to NMMSS.

Questions

Developed by: LINK Technologies