



# Map Exchange Tool



**Goal:** Reduce the cost and duration of a migration to IBM's B2B Integrator or IBM's Transformation Extender

**Features**

- Multiple source formats: OpenText AI, Seeburger, Gentran (MVS, AS400, Windows, Director), B2B Integrator
- Output either ITX or B2Bi
- Creates a Mapping Requirements Specification (MRS) document in Excel
- Options to create Doc only, create left and right formats only, or create map with links
- Documentation flagged with successful and unsuccessful mappings with color coding to simply updates
- Creates directory structure for each source map (directories for data, documentation, trees, schemas, maps)
- Creates type trees / source and target formats for both input and output formats with field mappings
- Mapping rules are captured and placed in comments in the target map
- Storage in central database enables data analysis across all maps
- Processing can be done one or multiple at a time against a directory of maps
- Additional iterations can be run with custom logic for mappings that were unsuccessful

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# Mapping Tool Suite



**Map Exchange (MapEx)**

- Converts maps from a different EDI solution
  - Source: Gentran(all platforms), Seeburger, OpenText AI, B2Bi
  - Targets: B2Bi or ITX
  - Same source and target formats
  - Documents maps and provides mapping guide to complete

Map ID	Source	Target	Conversion Status	Linked From Report	Linked From Field	Link Path	File Name
210	PER OF PER OF 2001	COMMUNICATIONS	Yes				
210	PER OF PER OF 2001	COMMUNICATIONS	Yes				
210	PER OF PER OF 2001	COMMUNICATIONS	Yes				
210	PER OF PER OF 2001	COMMUNICATIONS	Yes				
210	PER OF PER OF 2001	COMMUNICATIONS	Yes				
210	PER OF PER OF 2001	COMMUNICATIONS	Yes				
210	PER OF PER OF 2001	COMMUNICATIONS	Yes				
210	PER OF PER OF 2001	COMMUNICATIONS	Yes				
210	PER OF PER OF 2001	COMMUNICATIONS	Yes				
210	PER OF PER OF 2001	COMMUNICATIONS	Yes				

Report shows what could and could not be converted

Notes	Doc Type	Format	Min	Max	Conditions
String	Any	C	1	2	
String	Any	C	1	250	
String	Any	C	1	250	
Segment	Any	C	0	10	
String	Any	C	1	2	
String	Any	C	1	2	

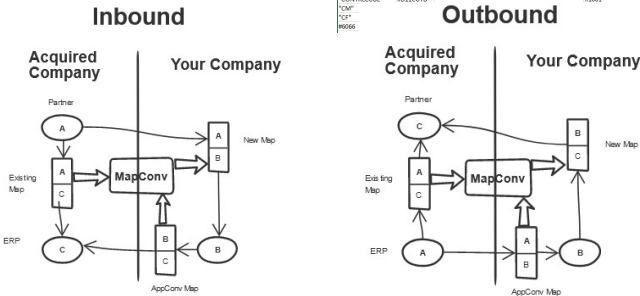
**Map Build (MapBuild)**

- Creates maps from a Mapping Requirement Specification
- Simplifies map building
- Creates temp fields and maps from spec

**Map Conversion (MapConv)**

- Converts maps to different Target
- Mergers/Acquisitions
- ERP changes

Source	Target	Condition	Rule Location	Prepend to Rule	Append to Rule	Rule Inside Condition
CFBL	#05LAPP		#1001			
COBINT	#05LAPP		#1001			
"INBOUND"	#05LAPP		#1001			
#1154	#05LAPP	#1153 ~ "AWB"	#1154			
#1004	#05LAPP		#1004			
"CONTROLLERS"	#05LAPP		#1001			
#1207	#05LAPP	#2015 ~ "SP"	#2000_NAD			
#1207	#05LAPP	#2015 ~ "C" & FIG_COUNTRY_MAPPED ~ "false"	#2000_NAD			FIG_COUNTRY_MAPPED = "true"
#1208	#05LAPP	#1113 ~ "ZNY" & #1000 ~ "C#0001"	#1004			
#1208	#05LAPP	#1113 ~ "ZNY" & #1000 ~ "C#0001"	#1004			
"CONTROLLER"	#05LAPP		#1001			
"CONTROLLER"	#05LAPP		#1001			
"CONTROLLER"	#05LAPP		#1001			
#1111	#05LAPP	#0009 ~ "J"	#0009			
#1111	#05LAPP	#0009 ~ "J"	#0009			
#1111	#05LAPP	#0009 ~ "J"	#0009			
#1111	#05LAPP	#0009 ~ "J"	#0009			
"CONTROLLER"	#05LAPP	#001 ~ "AAA" & FIG_AAA_MAPPED ~ "true"	#1001			FIG_AAA_MAPPED = "true"
"CONTROLLER"	#05LAPP	#001 ~ "AAA" & FIG_AAA_MAPPED ~ "false"	#1001			FIG_AAA_MAPPED = "false"



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## Gentran

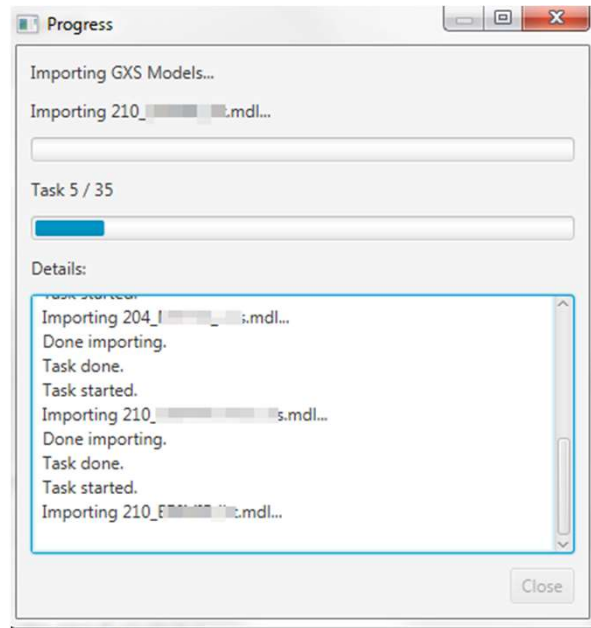
- Mainframe & AS400
  - Uses Pairs of Mapping Reports EBDIO52 and EBDIO53 (Standard and Application)
- NT, Director & UNIX AI Mapper
  - Uses “.map” binary source file
- UNIX Visual Mapper (.vmp)

## B2Bi (SI, GIS)

- Uses either the “.map” binary source file or the newer “.xml” XML map file

## Open Text AI (GXS AI)

- Uses Pairs of “.mdl” Model Files

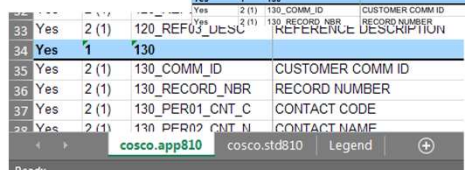


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Every map converted from any source includes autogenerated documentation showing:

- Data Structure
- Fields Links
- Data Types, Formatting, Length, Positioning, etc.
- Rules

Additional:	Level	Name	Description	Linked To Segment	Linked To Element	Data Type	Format	CM	Min	Max	Pos	Justify	Pad	Conditions
Yes	1	100				Segment		C	1	1				
Yes	2 (0)	100_COMM_ID	CUSTOMER COMM ID			String	Any	M	5	15	1			
Yes	2 (0)	100_RECORD_NBR	RECORD NUMBER	BIG	BIG 01 (BIG_01_0373)	String	Any	M	5	15	1			
Yes	2 (0)	100_BIG01_IN_DT	INVOICE DATE CCYYMMDD			String	Any	M	5	15	1			
Yes	2 (0)	100_BIG01_IN_CC	INVOICE DATE CC			String	Any	M	5	15	1			
Yes	2 (0)	100_BIG01_IN_D6	INVOICE DATE YYMMDD			String	Any	M	5	15	1			
Yes	2 (0)	100_BIG02_IN_NO	INVOICE NUMBER	BIG	BIG 02 (BIG_02_0076)	String	Any	M	5	15	1			
Yes	2 (0)	100_BIG03_PO_DT	PO DATE CCYYMMDD	BIG	BIG 03 (BIG_03_0373)	String	Any	C	5	15	1			
Yes	2 (0)	100_BIG03_PO_CC	PO DATE CC			String	Any	C	5	15	1			
Yes	2 (0)	100_BIG03_PO_D6	PO DATE YYMMDD			String	Any	C	5	15	1			
Yes	2 (0)	100_BIG04_PO_NO	PO NUMBER	BIG	BIG 04 (BIG_04_0324)	String	Any	C	5	15	1			
Yes	2 (0)	100_BIG05_REL_N	PO RELEASE NUMBER			String	Any	C	5	15	1			
Yes	2 (0)	100_BIG07_TRANS	TRANSACTION TYPE CODE			String	Any	C	5	15	1			
Yes	2 (0)	100_BIG08_PUR_C	TRANSACTION PURPOSE CODE			String	Any	C	5	15	1			
Yes	1	110				Segment		C	5	15	1			
Yes	2 (0)	110_COMM_ID	CUSTOMER COMM ID			String	Any	M	5	15	1			
Yes	2 (0)	110_RECORD_NBR	RECORD NUMBER			String	Any	M	5	15	1			
Yes	2 (0)	110_CUR01_ENT_I	ENTITY ID CODE			String	Any	C	5	15	1			
Yes	2 (0)	110_CUR02_CUR_C	CURRENCY CODE			String	Any	C	5	15	1			
Yes	1	115				Segment		C	5	15	1			
Yes	2 (0)	115_COMM_ID	CUSTOMER COMM ID			String	Any	M	5	15	1			
Yes	2 (0)	115_RECORD_NBR	RECORD NUMBER			String	Any	M	5	15	1			
Yes	2 (0)	115_NTE01	QUALIFIER			String	Any	C	5	15	1			
Yes	2 (0)	115_NTE02	DESCRIPTION			String	Any	C	5	15	1			
Yes	1	120				Segment		C	5	15	1			
Yes	2 (1)	120_COMM_ID	CUSTOMER COMM ID			String	Any	M	5	15	1			
Yes	2 (1)	120_RECORD_NBR	RECORD NUMBER			String	Any	M	5	15	1			
Yes	2 (1)	120_REF01_QUAL	REFERENCE QUALIFIER			String	Any	C	5	15	1			
Yes	2 (1)	120_REF02_DATA	REFERENCE DATA			String	Any	C	5	15	1			
Yes	2 (1)	120_REF03_DESC	REFERENCE DESCRIPTION			String	Any	C	5	15	1			
Yes	1	130				Segment		C	5	15	1			
Yes	2 (1)	130_COMM_ID	CUSTOMER COMM ID			String	Any	M	5	15	1			
Yes	2 (1)	130_RECORD_NBR	RECORD NUMBER			String	Any	M	5	15	1			
Yes	2 (1)	130_REF03_DESC	REFERENCE DESCRIPTION			String	Any	M	5	15	1			



Excel Tabs show map from both Input and Output + a Legend



Title
Header
Group
Segment Record
Composite
Composite Child
Link Info requiring human intervention
Attention needed for dataType

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# Export Converted Map



Outputs are either **B2Bi MXL Maps** or **ITX Map Projects**

The screenshot displays the MRS (Map Resource System) interface. On the left, a 'Progress' dialog box shows the status of exporting an ITX project, including steps like 'Building ITX MMS Map...' and 'Task 0 / 1'. The main workspace shows a hierarchical tree of map elements (e.g., Record01, Record02) and a 'Map' view with various data fields and their corresponding output paths. A 'Rule' editor is also visible, showing a transformation rule for a date field.

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# Identified Human Intervention



Active	Level	Name	Description	Linked From Record	Linked From Field	Link Path	Ext. Rule
Yes	2 (1)	PER 07 [PER_07_0365]	COMMUNICATION NU				
Yes	2 (1)	PER 08 [PER_08_0364]	COMMUNICATION NU				
Yes	2 (1)	PER 09 [PER_09_0443]	CONTACT INQUIRY				
Yes	1	<b>DTM</b>					
Yes	2 (1)	DTM 01 [DTM_01_0374]	DATE/TIME QUALIF	180	180_DTM01_QLF		180-DTM01-QLF DATE/TIME QUALIFIER 3 AN
Yes	2 (1)	DTM 02 [DTM_02_0373]	DATE	180	180_DTM02_DATE		180-DTM02-DATE DATE 8 CY
Yes	2 (1)	DTM 03 [DTM_03_0337]	TIME				
Yes	2 (1)	DTM 04 [DTM_04_0623]	TIME CODE				
Yes	2 (1)	DTM 05 [DTM_05_1250]	DATE TIME PERIOD				
Yes	2 (1)	DTM 06 [DTM_06_1251]	DATE TIME PERIOD				

Report shows what **could** and **could not** be converted

Notes	Data Type	Format	C/M	Min	Max	Conditions
	String	Any	C	2	2	
	String	Any	C	1	256	
	String	Any	C	1	20	
	<b>Segment</b>		<b>C</b>	<b>0</b>	<b>10</b>	
	String	Any	M	3	3	Target Looping Level deeper than source
	DateTime	yyyyMMdd	C	8	8	Target Looping Level deeper than source
	DateTime	HHmmssSS	C	4	8	
	String	Any	C	2	2	
	String	Any	C	2	3	
	String	Any	C	1	35	

- Title
- Header
- Group
- Segment Record
- Composite
- Composite Child
- Link Info requiring human intervention
- Attention needed for dataType

Highlighted rows show where human intervention is required

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## Case Study



**Client:** Several billion-dollar, online retailer of sportswear, equipment and merchandise.

**Use Case:** After a merger with another large online retailer, Client had to standup a brand new EDI solution while consolidating multiple legacy systems, with the primary one being Gentran zSeries.

Client had to be stood up on a new EDI system (B2Bi) and have all legacy maps migrated over by Jan. 2019, given us only two months to complete the effort. (~250 maps and 50+ trading partners).

Using the ComResource Fast-Start Flex, we were able to stand up the new B2Bi environment in a few short weeks. Soon after, we used our MapEx solution to convert all of the Gentran maps over to the B2Bi format with 95%+ accuracy. ComResource was able to meet the deadline. Without those accelerators, it would have taken the client 9-12 months to complete the above effort and resulted in penalties and missed SLAs

Today, ComResource is actively working to help client consolidate MuleSoft, GoAnywhere, and SPS Commerce, into the IBM Sterling B2Bi platform.

**Products:** IBM Sterling B2Bi with ComResource Fast-Start Flex and ComResource MapEx for map conversion.

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