

Cleo Integration Cloud™ | Clarify

Chapter	Transforming EDI to flat file (Inbound EDI)																										
Overview	<p>This topic demonstrates how to transform an inbound EDI 204 Motor Carrier Load Tender to a multi-format fixed-length flat file.</p> <p>The EDI 204 communicates a request to a full-truckload motor carrier for the movement of a shipment.</p>																										
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Scenario

The source data is read from an inbound EDI 204 Load Tender that has been sent from our trading partner.

The actual source data to be transformed is for one load tender, as illustrated here.

```

ISA*00*          *00*          *ZZ*BIGSTORE      *ZZ*TRCK
*120101*0900*U*00401*000000001*0*P*>~
GS*SM*BIGSTORE*TRCK*20120101*0900*1*X*004010~
ST*204*0001~
B2**TRCK**12345**CC~
B2A*00~
S5*1*LD~
N1*SF*TRCK*ZZ*20003590~
N3*901 RENAISSANCE BLVD*CANNOT SHIP IM~
N4*STURTEVANT*WI*53177*US~
S5*2*DT~
N1*ST*936 ROANOKE DC*ZZ*936~
N3*201 FREEDOM DR~
N4*ROANOKE*TX*76262*US~
L3*20663*G*242603*FC*242603****2200*E*2741~
SE*13*0001~
GE*1*1~
IEA*1*000000001~
    
```

The target multi-format fixed-length flat file provides the essential information to interface with our application. It indicates the data transformed from the inbound load tender and contains the values necessary for proper integration. The expected target data is illustrated here.

```

ELA204
H1 TRCKBIGSTORE      00CC000000000012345
A2 SFTRCK              20003590                      901
RENAISSANCE BLVD          STURTEVANT          WI53177      01LD
A3 ST936 ROANOKE DC      936                      201 FREEDOM
DR              ROANOKE          TX76262      02DT
EOT
    
```

Resources

The resources needed to accomplish this transformation are meant to provide a basic understanding of how Clarify objects work together. All resources are created and defined on the *Clarify Workbench* perspective's *Project Explorer* view.

- Project [**com.training.demo11.editoff**] – A Project is a directory within the Workspace.
 - Package [**com.training.demo11.editoff**] – A Package is a directory within a Project.
 - File Monitor [**MonitorInboundEdiFM**] – This File Monitor brings the source EDI data to Clarify and triggers the *ReceiveEDIEvent* Event, which in turn launches the *ReceiveEDI* Business Process.
 - File Adapter [**WriteTxtFA**] – This File Adapter sends the target data out of Clarify.
 - EDI Schema [**LoadTender204EDI**] – This Schema describes the source EDI X12 Version 004010 Motor Carrier Load Tender (Message ID 204) document.
 - Flat File Schema [**LoadTender204FF**] – This Schema describes the multi-format fixed-length flat file (target) data.
 - Transformation Settings [**UndefinedTS**] – This Transformation Settings specifies no special settings, as both XML and EDI data require none.
 - Ruleset [**Edi204Ver004010ToLoadTender204FfRS**] – This Ruleset transforms the data from the source format to the target format.
 - Business Process [**Edi204Ver004010ToLoadTender204FfBPS**] – This Business Process sequences three user-defined objects to read the source data, transform it to the target format, and write it out to another file.
 - Trading Partner [**BigstoreTP**] – This Trading Partner will be associated with the Route enabling queries through Cleo Dashboard.
 - Inbound EDI Route [**Bigstore204IR**] – This Route is used to match on values from the inbound EDI document and process the data accordingly.
-
-
-
-

Project: **com.training.demo11.editoff**

Select *File* | *New* | *Clarify Project*.

Type **com.training.demo11.editoff** in the *Project name* field.

Click **Finish**.

When Clarify creates a Project, it automatically creates a Package named the same as the Project. All resources for this Project are created in its *com.training.demo11.editoff* Package.

File Monitor: MonitorInboundEdiFM

Select the Package.

Select *File | New | File Monitor*.

Type **MonitorInboundEdiFM** in the *Name* field.

Click **Finish**. The object is created, and its editor appears.

Click in the *Target Directory* field. Click the **Browse For Folder** button, locate/select the *C:\Clarify_demos\demo11\in* folder, and click **OK**.

Click in the *File Name Filter* field and type **EDI.*** – that’s “EDI” followed by a period and an asterisk.

Click in the *Polling Interval* field and type **10**.

Click in the *Event* field. In the list of available Clarify Events, double-click the Cleo-supplied *com.training.lib.ReceiveEdiEvent* object.

The *ReceiveEdiEvent Event* is non-editable – it launches the *ReceiveEdi* Business Process.

Click in the *Archive Directory* field. Click the **Browse For Folder** button, locate/select the *C:\Clarify_demos\demo11\out* folder, and click **OK**.

Select *Generate Unique Name* from the *Collision Action* field’s dropdown.

Save the object and close the editor.

File Adapter: WriteTxtFA

Select the Package.

Select *File* | *New* | *File Adapter*.

Choose *Write* and click **Next**.

Type **WriteTxtFA** in the *Name* field.

Click **Finish**.

The object is created, and its editor appears.

Click in the *File Path* field. Click the **Browse For Folder** button.

Locate/select the *C:\Cleo\Clarify_demos\demo11\out* folder and click **OK**. The *File Path* field reflects this selection.

Type **204FF.txt** in the *File name* field.

Select *Generate Unique Name* from the *Collision Action* field's dropdown.

Save the object and close the editor.

Schema: Edi204Ver004010EDI

Select the Package.

Select *File / New / EDI Schema*. A wizard assists with creating and defining this object.

The *EDI Schema* panel allows for specifying the object's location and name. Type **Edi204Ver004010EDI** in the *Name* field and click **Next**.

The *EDI Version / Message Selection* panel allows for specifying the *Standard Type* and *Version*. In the *Select Version* area, select the *X12 EDI Standard / 004010* item. In the *Select Message* area, type **204** in the filter field and select the *204 Message ID* item.

Click **Finish**. The object is created, and its editor appears.

Close the editor.

Schema: LoadTender204FF

Select the Package.

Select *File | New | Flat File Schema*.

Choose *Create Empty* and click **Next**.

Type **LoadTender204FF** in the *Name* field and click **Finish**.

The object is created, and its editor appears.

Record Group

Click the **Add Record Group** button.



In the *Properties* view's *Properties* tab, click in the *Name* field, type **LT204**, and click **OK**.

Records

As indicated below, for each of the schema's records:

- click the record group node
- click the **Add Record** button



- in the *Properties* view's *Properties* tab, rename the *New_Record* node, choose *Fixed Position* and type **1** for its value, and type the *Value*

Name & Value
ELT204
H1
A2
A3
EOT_1

Fields

As indicated below, for each of the schema's records:

- click the record
- click the **Add Field** button



- click the *New_Field* node
- in the *Properties* view's *Properties* tab, rename the *New_Field* node, indicate the *Length*, and select the *Type*

Record	Field Name	Length	Type
ELT204	ELT204_RecordID	6	String
	ELT204_HeaderString	50	String

Record	Field Name	Length	Type
H1	H1_RecordID	3	String
	H1_SCAC	4	String
	H1_GSID	15	String
	H1_PurposeCode	2	String
	H1_ShipPay	2	String
	H1_ShipID	15	String

Record	Field Name	Length	Type
A2	A2_RecordID	3	String
	A2_Qualifier	2	String
	A2_Name	30	String
	A2_IDCode	46	String
	A2_Address	60	String
	A2_City	19	String
	A2_State	2	String
	A2_Zip	9	String
	A2_StopNumber	2	Integer
	A2_StopType	2	String

Record	Field Name	Length	Type
A3	A3_RecordID	3	String
	A3_Qualifier	2	String
	A3_Name	30	String
	A3_IDCode	46	String
	A3_Address	60	String
	A3_City	19	String
	A3_State	2	String
	A3_Zip	9	String
	A3_StopNumber	2	Integer
	A3_StopType	2	String

Record	Field Name	Length	Type
EOT_1	EOT_1_RecordID	5	String
	EOT_1_TrailerString	50	String

Save the object and close the editor.

Transformation Settings: UndefinedTS

Select the Package.

Select *File* | *New* | *Transformation Settings*.

Type **UndefinedTS** in the *Name* field.

Click **Finish**. The object is created, and its editor appears.

Close the editor.

Ruleset: Edi204Ver004010ToLoadTender204FfRS

This Ruleset transforms the data from the source format to the target format.

Select the Package.

Select *File | New | Ruleset*.

Type **Edi204Ver004010ToLoadTender204FfRS** in the *Name* field.

Click **Next**. A wizard assists with defining this object.

The *Schema Types* panel allows for selecting both the source and target schemas. Choose *Local Copy of EDI Message* for the source and *Flat File* for the target. Click **Next**.

The *Source Schema* panel allows for selecting an existing schema. Click **Browse**, select the *Edi204Ver004010EDI* object, and click **OK**. Then, select the *204 Message ID* item and click **Next**.

The *Target Schema* panel allows for selecting an existing schema. Click **Browse**, select the *LoadTender204FF* object, and click **OK**.

Accept **Version 2** for the *Ruleset Version*.

Click **Finish**.

The object is created, and its editor appears.

Click the **Expand All** button in the *Source* section to display all levels.

Expand the *Target* section's *File: LoadTender204FF* node and then its *Record Group: LT204* node to display all record nodes. When a record's fields are required to create/define a rule, expand that record node as needed.

This Ruleset requires several Composite Rules and Simple Rules. Two Composites Rules must be conditioned.

Composite Rule 1: When ST exists, create a new Record ELT204

To create and define this Composite Rule, drag the source's *ST: Transaction Set Header* node and drop it on the target's *Record: ELT204* node. This rule appears in the *Rules* section.

Simple Rule for Composite Rule 1

Ensure that this Composite Rule is selected before creating its child Simple Rule, as indicated here.

Source Value	Target Record: Field
ELA204	ELT204: ELT204_RecordID

To create this rule, click the **New Rule** button. In the list of available actions, type **mov** in the *Filter* field to restrict the display to actions containing that text. Double-click *Move* to select that action. The undefined rule appears in the *Rules* section.

To define this rule, display the *Properties* view's *Rule* tab, type **ELA204** in the *From* property and press **Enter**. Re-select this partially-defined rule and drag the target's *ELT204: ELT204_RecordID* node to the *Return Assignments* area.

Composite Rule 2: When B2 exists, create a new Record H1

To create this Composite Rule, right-click the previous Composite Rule and select *Add child | Composite Rule | Composite Rule*. This undefined rule appears in the *Rules* section.

To define this Composite Rule, drag the source's *B2: Beginning Segment for Shipment Information Transaction* node to the *Properties* view's *Source* property, and then drag the target's *Record: H1* node to the *Target* property.

Simple Rules for Composite Rule 2

Source Area: Segment: Element	Target Record: Field
Value: H1	H1: H1_RecordID
Variable: env Application_Sender_Id	H1: H1_GSID
1: B2: B202	H1: H1_SCAC
1: B2: B204	H1: H1_ShipID
1: B2: B206	H1: H1_ShipPay

To create the first rule, click the **New Rule** button. In the list of available actions, type **mov** in the *Filter* field to restrict the display to actions containing that text. Double-click *Move* to select that action. The undefined rule appears in the *Rules* section.

To define the first rule, display the *Properties* view's *Rule* tab, type **H1** in the *From* property and press **Enter**. Re-select this partially- defined rule and drag the target's *H1: H1_RecordID* node to the *Return Assignments* area.

To create and define the second rule, display the Ruleset editor's *Variables* panel, expand the *env* node, and drag the *Application_Sender_Id* item to the target's *H1: H1_GSID* node.

To create and define the remaining rules, drag the source schema node to the target schema node.

Composite Rule 3: When B2A exists

To create this Composite Rule, right-click the previous Composite Rule and select *Add sibling | Composite Rule | Composite Rule*. This undefined rule appears in the *Rules* section.

To define this Composite Rule, drag the source's *B2A: Set Purpose Code* node to the *Properties* view's *Source* property.

Simple Rule for Composite Rule 3

Source Area: Segment: Element	Target Record: Field
1: B2A: B2A01	H1: H1_PurposeCode

To create and this rule, drag the source schema node to the target schema node.

Composite Rule 4: For each Segment Group S5

To create this Composite Rule, right-click the previous Composite Rule and select *Add sibling | Composite Rule | Composite Rule*. This undefined rule appears in the *Rules* section.

To define this Composite Rule, drag the source's *Segment Group: S5* node to the *Properties* view's *Source* property.

This Composite Rule has no child Simple Rules.

Composite Rule 5: Create a new Record A2

To create this Composite Rule, right-click the previous Composite Rule and select *Add child | Composite Rule | Composite Rule*. This undefined rule appears in the *Rules* section.

To define this Composite Rule, drag the target's *Record: A2* node to the *Properties* view's *Target* property.

Condition Composite Rule 5

This Composite Rule must be conditioned to execute only when the source data's *Entity Identifier Code* is **SF**.

Select the Composite Rule and display the *Properties* view's *Condition* tab.

Display the Ruleset editor's *Actions* panel, type **str** in the *Filter* field to restrict the display to items containing that text and drag *StringEquals* to the *Condition* tab's *Condition* field.

Drag the source's area 2's *N1: N101* node to the *Condition* tab's *SourceString1* property.

Type **SF** in the *Condition* tab's *SourceString1* property and press **Enter**.

This Composite Rule has no child Simple Rules.

Composite Rule 6: When S5: Stop Off Details exists

To create this Composite Rule, right-click the previous Composite Rule and select *Add child | Composite Rule | Composite Rule*. This undefined rule appears in the *Rules* section.

To define this Composite Rule, drag the source's *S5: Stop Off Details* node to the *Properties* view's *Source* property.

Simple Rules for Composite Rule 6

Source Area: Segment: Element	Target Record: Field
Value: A2	A2: A2_RecordID
2: S5: S501	A2: A2_StopNumber
2: S5: S502	A2: A2_StopType

To create the first rule, click the **New Rule** button. In the list of available actions, type **mov** in the *Filter* field to restrict the display to actions containing that text. Double-click *Move* to select that action. The undefined rule appears in the *Rules* section.

To define the first rule, display the *Properties* view's *Rule* tab, type **A2** in the *From* property and press **Enter**. Re-select this partially- defined rule and drag the target's *A2: A2_RecordID* node to the *Return Assignments* area.

To create and define the remaining rules, drag the source schema node to the target schema node.

Composite Rule 7: When N1: Name exists

To create this Composite Rule, right-click the previous Composite Rule and select *Add sibling | Composite Rule | Composite Rule*. This undefined rule appears in the *Rules* section.

To define this Composite Rule, drag the source's *N1: Name* node to the *Properties* view's *Source* property.

Simple Rules for Composite Rule 7

Source Area: Segment: Element	Target Record: Field
2: N1: N101	A2: A2_Qualifier
2: N1: N102	A2: A2_Name
2: N1: N104	A2: A2_IDCode

To create and define these rules, drag the source schema node to the target schema node.

Composite Rule 8: For each N3: Address Information

To create this Composite Rule, right-click the previous Composite Rule and select *Add sibling | Composite Rule | Composite Rule*. This undefined rule appears in the *Rules* section.

To define this Composite Rule, drag the source's *N3: Address Information* node to the *Properties* view's *Source* property.

Simple Rule for Composite Rule 8

Source Area: Segment: Element	Target Record: Field
2: N3: N301	A2: A2_Address

To create and define this rule, drag the source schema node to the target schema node.

Composite Rule 9: When N4: Geographic Location exists

To create this Composite Rule, right-click the previous Composite Rule and select *Add sibling | Composite Rule | Composite Rule*. This undefined rule appears in the *Rules* section.

To define this Composite Rule, drag the source's *N4: Geographic Location* node to the *Properties* view's *Source* property.

Simple Rules for Composite Rule 9

Source Area: Segment: Element	Target Record: Field
2: N4: N401	A2: A2_City
2: N4: N402	A2: A2_State
2: N4: N403	A2: A2_Zip

To create and define these rules, drag the source schema node to the target schema node.

Composite Rules 10-14 (Copy and tweak of 5-9)

Composite Rule 5 (*Create a new Record A2*) and all of its child Composite Rules and their child Simple Rules are designed to populate the target's *Record: A2* fields. That structure of Composite Rules and Simple Rules is identical to the one needed to populate the target's *Record: A3* fields. Therefore, that existing structure may be duplicated and modified as necessary.

To create this structure, right-click the *Create a new Record A2* Composite Rule, select *Copy*, right-click its parent *For each Segment Group S5* Composite Rule, and select *Paste*.

Re-define Composite Rule

Select that Composite Rule and display the *Properties* view's *Rule* tab.

Drag the target's *Record: A3* node over the existing value (*Record: A2*) in the *Properties* view's *Target* property.

Re-condition Composite Rule

This new Composite Rule (*Create a new Record A3*) must be re-conditioned to execute only when the source data's *Entity Identifier Code* is **ST**.

Select that Composite Rule and display the *Properties* view's *Condition* tab.

Type **ST** in the *Condition* tab's *SourceString2* property and press **Enter**.

Re-define Simple Rules

Each of this structure’s Simple Rules must be re-defined.

Select the *Properties* view’s *Rule* tab.

Select the *When S5: Stop Off Details exists* Composite Rule’s *Move: [From=A2]* Rule.

Type **A3** in the *From* property and press **Enter**. Then, drag the target’s *A3_RecordID* node over the existing value (*A2_RecordID*) in the *Return Assignments* area.

For the remaining rules, select each and drag the new target node over the existing value in the *Return Assignments* area, as indicated here.

Rule	New Record: Field	Existing Target Record: Field
Move: [From=S501]	A3: A3_StopNumber	A2: A2_StopNumber
Move: [From=S502]	A3: A3_StopType	A2: A2_StopType
Move: [From=N101]	A3: A3_Qualifier	A2: A2_Qualifier
Move: [From=N102]	A3: A3_Name	A2: A2_Name
Move: [From=N104]	A3: A3_IDCode	A2: A2_IDCode
Move: [From=N301]	A3: A3_Address	A2: A2_Address
Move: [From=N401]	A3: A3_City	A2: A2_City
Move: [From=N402]	A3: A3_State	A2: A2_State
Move: [From=N403]	A3: A3_Zip	A2: A2_Zip

Composite Rule 15: Create a new Record EOT_1

To create this Composite Rule, right-click the top-most Composite Rule (*When ST exists, create a new Record: ELT204*) and select *Add child | Composite Rule | Composite Rule*. This undefined rule appears in the *Rules* section.

To define this Composite Rule, drag the target's *Record: EOT_1* node to the *Properties* view's *Target* property.

Simple Rule for Composite Rule 15

Source Value	Target Record: Field
EOT	EOT_1: EOT_1_RecordID

To create this rule, click the **New Rule** button. In the list of available actions, type **mov** in the *Filter* field to restrict the display to actions containing that text. Double-click *Move* to select that action. The undefined rule appears in the *Rules* section.

To define this rule, display the *Properties* view's *Rule* tab, type **EOT** in the *From* property and press **Enter**. Re-select this partially- defined rule and drag the target's *EOT_1: EOT_1_RecordID* node to the *Return Assignments* area.

Save and close the editor.

Business Process: Edi204Ver004010ToLoadTender204FfBPS

Select the Package.

Select *File | New | Business Process*.

Choose *Inbound EDI Business Process* and click **Next**.

Type **Edi204Ver004010ToLoadTender204FfBPS** in the *Name* field.

Click **Finish**. The object is created, and its editor appears.

This Business Process is created with two pre-defined tasks: *SetRouteFieldValues* and *SetExitStatus*. Two tasks must be inserted between that pair to (2) transform the data, and (3) write the target data.

Task 2: Transform the data

To create this task, select the pre-existing *SetRouteFieldValues* task in the *Script* section and click the **Add** button. Click that step's *Click to select task* entry. In the list of available tasks, type **exe** in the *Filter* field to restrict the display to tasks containing that text. Double-click the *ExecuteTransformation* Cleo-supplied task to select it. That task is displayed on the second line.

To define this task, click the *Properties* view tab. This task has several parameters.

Click in the *Source* parameter's field. This parameter represents the StorageNode containing the data to be transformed. In the list of available parameters and variables, double-click the pre-defined *inputDataFragment* parameter.

Click in the *Target* parameter's field. This parameter represents the StorageNode containing the transformed data. A list of available parameters and variables appears. Click **New Variable**. *newVariable* appears in the *Properties* view and also appears in the *Variables* section, with its name pre-selected, ready for a name change. Type **targetData** and press **Enter** to rename this variable. This new name is reflected in the *Properties* view.

Click in the *Transformation Settings* parameter's field. This parameter represents the Transformation Settings object to be used during transformation. Click the *TransformationSettings Literal* tab and double-click the previously-defined **UndefinedTS** object to select it.

Click in the *Ruleset* parameter's field. This parameter represents the Ruleset object to transform the data. Click the *Ruleset Literal* tab and double-click the previously-defined **Edi204Ver004010ToLoadTender204FfRS** object to select it.

Click in the *Source Context* parameter's field. This parameter represents the *glb* and *env* nodes of the Ruleset's *Variables* panel. In the list of available parameters and variables, double-click the pre-defined *context* parameter.

Task 3: Write the target data

To create this task, click the **Add** button in the *Script* section. Click that step's *Click to select task* entry. In the list of available tasks, type **write** in the *Filter* field to restrict the display to tasks containing that text. Double-click the **WriteTxtFA** object to select it. That task is displayed on the third line.

To define this task, click the *Properties* view tab. This task has only one parameter.

Click in the *storageNodes* parameter's field. This parameter represents the AdapterPayload (the flat file data written to our file system). In the list of available parameters and variables, double-click the previously-defined *targetData* variable, as the data transformed by the second task is the data to be written.

Save the object and close the editor.

Trading Partner: BigstoreTP

Select the Package.

Select *File* | *New* | *Trading Partner*.

Type **BigstoreTP** in the *Name* field.

Close the editor.

Inbound EDI Route: Bigstore204IR

Select the Package.

Select *File | New | Inbound EDI Route*.

Choose *X12* and click **Next**.

Type **Bigstore204IR** in the *Name* field.

Click **Finish**. The object is created, and its editor appears.

Trading Partner

The Trading Partner to which this Inbound EDI Route belongs must be identified.

Click in the *Trading Partner* field and select the *BigstoreTP* user-defined object.

Envelope Matching

The section presents Name-Value pairs that represent the EDI envelope attributes of the document processed by the *ReceiveEdi* Business Process.

Type the values for the names indicated below.

Name	Value
(ISA05) Sender Id Qualifier	ZZ
(ISA06) Sender Id	BIGSTORE
(GS01) Group Code	SM
(GS02) Application Sender Id	BIGSTORE
(ST01) Message Id	204

Process Binding

This section is where the Inbound EDI Business Process to be launched is indicated.

Click the **Add** button.

Click in the *Click to select Business Process* Parameter and double-click the *Edi204Ver004010ToLoadTender204fBPS* user-defined object.

Save the object and close the editor.

Deploy, Launch, Audit

Now that all of the Project's resources are created on the *Clarify Workbench | Project Explorer*, the remaining activities take place on various views of the *Admin Console* perspective.

The Project's top-level objects – in this case, the File Monitor and the Inbound EDI Route – must be deployed to the *Local Test* server. Then, the File Monitor can be started and the result audited.

Deploy

Access *Admin Console | Projects*.

In the *Workspace* section, expand the *com.training.demo11.editoff* Project, and then expand its Package node. Drag both the *MonitorInboundEdiFM* and *Bigstore204IR* object's to the *Selected Scenarios* section.

Start the *Local Test* server by ensuring that it is displayed in the *Server Environment* dropdown and then click the **Start** button.

When fully-expanded, the *Server Projects* section shows all installed objects.

Launch

Access *Admin Console | Resource Monitors | File Monitor*.

Select *com.training.demo11.editoff.MonitorInboundEdiFM* and click the **Start** button.

Using Windows Explorer, copy the *EDI_204_BIGSTORE.txt* file in the *C:\Cleo\Clarify_demos\demo11* folder and paste it into the *C:\Cleo\Clarify_demos\demo11\InboundEDI* folder.

Within 15 seconds, the File Monitor "hears" the file in the *C:\Cleo\Clarify_demos\demo11\InboundEDI* folder, moves it to the *C:\Cleo\Clarify_demos\demo11\ArchiveInboundEDI* folder, passes its data to the *ReceiveEdiEvent*, which in turn passes the data to and launches the *ReceiveEdi* Business Process.

Audit

Access *Admin Console | Auditor*.

The *Log Entries* section shows the results.
