



EDI Business Rules

Lucid Motors

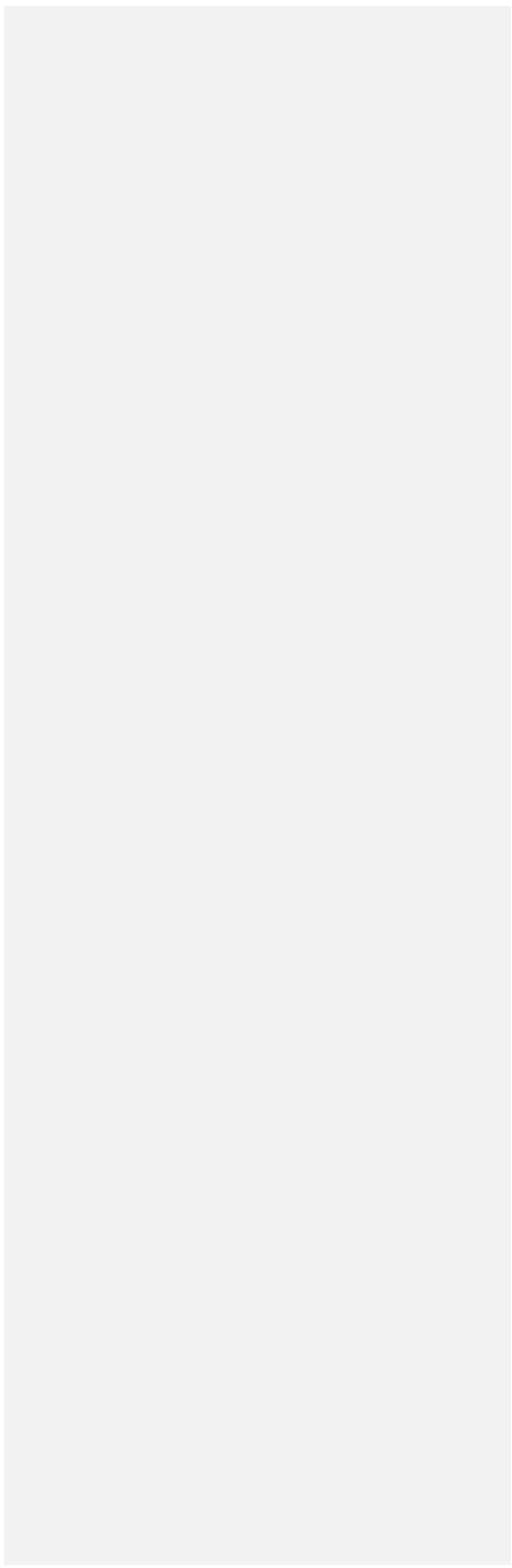


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1. Change Log

Version	Author	Reason	Status	Date (MM/DD/CCYY)
V5.7		Initial Version		
V5.8	SE	Transaction changes		12/06/2021
V5.9	SE	Transaction changes		01/11/2022
v5.10	Lucid	Multiple Section Updates		06/15/2023
V5.11	Lucid	Multiple Section Updates		3/30/2024

2. EDI Message List and Frequency

EDIFACT Messages	Description	Notes
ORDERS	Purchase Order (Service, NPI product builds, Schedule Agreements)	There is a specific ORDER message for each specific PO/SA/Framework order type. ORDER covers the contract terms: • Where the part ships from • Where it ships to • Price • Quantity • Part numbers • Delivery date (for a standard PO) • Delivery horizon (for a Scheduling Agreement) NOTE: If a supplier hasn't finished onboarding connectivity, an ORDERS message may be generated, but when EDI connectivity is established, the supplier may get an ORDCHG. In other words, the supplier may sometimes get an ORDCHG message and not the ORDERS message.
ORDCHG	Purchase Order Change	If a PO, SA or Framework order changes in any way, ORDCHG communicates the change. ORDCHG covers changes to any of the contract terms in the ORDER (above). Depending on the timing of supplier onboarding, it's possible a supplier will only see an ORDCHG message if SAP sent out an original ORDER message and the supplier was not set up to receive it.
DELFOR	Forecast (Plan, not orders)	Once per week, Sunday evening or early Monday morning, or as needed by Lucid Material Planning Team.
DELJIT	Delivery Schedule (Authorization to Ship)	Once per week scheduled, Sunday evening or early Monday morning, multiple times a week as needed by Lucid Material Planning Team.
DESADV	Dispatch Advice (ASN)	The physical structure of the shipment must be reflected in your ASN structure. Data includes: • Ship To Location • Carrier/Transportation/ carrier shipment tracking numbers • Pallet Identifiers (labels) • Box/Carton/Material Identifiers (labels) • Order detail as reflected in DELJIT
RECADV	Receipt Advice	At least one receipt advice for every ASN/Shipment - unless the ASN structure doesn't match the physical shipment structure, labels are incorrect, or Lucid creates a manual receipt.
INVOIC	Invoice	One invoice per ASN and Purchase Order/Scheduling Agreement
APERAK	Application Acknowledgment	Immediately upon error detection per ASN or Invoice. Must be vigorously monitored, corrections made and resent timely – especially ASN APERAK errors.
CONTRL	Message Acknowledgment -	For every message sent/received by Lucid

3. Glossary of Terms

- Product - Name of part/product being sold by supplier and bought by customer.
- Shipping Serial - Unique identifier printed on a label. Also known as
 - License Plate,
 - License Plate Serial,
 - Container Serial,
 - Mix / Master / Carton Serial,
 - Barcoded Label Serial,
 - Label Serial,
 - Handling unit (HU).
- Release Authorization Number (RAN) - Unique identifier for a specific release of material associated with a release date. The release number will be provided in two formats:
 - Standard and Framework order format:
 - Purchase order number (10) + Order Line-Item number (5) + 0001
Final length (4) = 19 digits
 - Schedule agreement release number format:
 - Schedule Agreement Number (10) + Order Line-Item number (5) + Julian Date (4) = 19 digits
 - RAN is only provided in the DELJIT (demand order) message, NOT the DELFOR (plan).
- CUM(ulative) Data – Lucid sends cumulative data only after goods are physically received. Cumulative data are not provided by Lucid over the life cycle. They are limited to the specific SA, and the specific line based on Goods Receipt.

4. EDI Data Flow



Commented [DT1]: Dave W, do you have this flow? We need to update with ORDRSP. Also, I think we should move it to front of BRs

Commented [DT2R1]: David Taylor this graphic must be redone (w/ ORDRSP until we are sure that message will be developed).

5. Business Rules

Business rules may supersede individual Transaction Document specs on occasion. Our intent is to keep the specs up to date, but sometimes there will be situations where spec changes are delayed. As Lucid improves systems and operations, periodic changes may be delivered through the business rules.

5.1 ORDERS (to Suppliers)

Frequency

- Orders will be provided on approval from Lucid.

TRANSMITTED FROM:

- Lucid Motors

TRANSMITTED TO:

- Suppliers; 3PL Warehouses

Replacement Logic

- Changes to ORDERS demand will be sent in ORDCHG. Suppliers must fully replace the contents of previous ORDERS data with the most recent ORDERS message.

Business Rules

- One ORDERS message per Trading Partner Purchase Order/Scheduling Agreement, Ship From and Ship To location
- ORDERS can be used to facilitate 3 differing Order Types:
 - Schedule Agreements or blanket order (over a specified amount of time).
Includes:
 - Agreed-upon annual quantities.
 - Pricing within validity period
 - No authorization to produce or ship (unless DELFOR/DELJIT are provided.
 - Standard Orders - Discrete orders, with specific quantity and delivery date(s)

- Used in a variety of scenarios such as risk/buy parts, emergency orders, interim orders (pre-DELJIT).
 - Authorized to ship demand
- Framework Orders - Hybrid Blanket order, with specific quantity and horizon delivery date range
 - This order type is used for VMI which is Lucid-owned inventory managed by the supplier
 - Supplier can send multiple shipments against this order within the horizon date range
 - Authorized to ship demand
- Each Standard/Framework PO/Schedule Agreement line item has a unique release authorization number (RAN).
 - This unique release number will follow that demand item through its life
 - RAN (19 digits) consists of
 - Purchase Document number (PO or SA number) - 10 digits
 - Line-Item number - 5 digits
 - Release Date - 4 digits, Julian Date format >>> YDDD – Y=Year, DDD= Julian Date value of the year, Release 3092=April 2, 2023)
 - If the date changes, the RAN changes
 - Any changes to Part numbers will result in the cancelation of any open orders/quantity of the original release number. Lucid will then create new orders/quantity of the new part number creating a RAN
 - Any changes to the Ship From field will result in a new scheduling agreement, order, release number. Any affected outstanding orders will be cancelled and replaced. That's why it's important to follow replacement logic above.

5.2 ORDCHG (to Suppliers)

Frequency

- Order changes will be provided on approval of Lucid changes

TRANSMITTED FROM:

- Lucid Motors

TRANSMITTED TO:

- Suppliers

Replacement Logic

- Each ORDCHG updates all previously received ORDCHG for a Purchase Order/Scheduling Agreement, Ship From and Ship To, including cancelling/deleting active (unshipped) demand that is no longer on the current ORDCHG
 - Example: Received ORDCHG for Purchase Order, Ship From and Ship To will replace, in its entirety, the last received ORDCHG for the same Purchase Order, Ship From and Ship To
- Full ordered quantities are sent
 - For Scheduling Agreement orders, these reflect the blanket order quantities.
 - For Standard and Framework orders, these reflect the entire ordered quantity, regardless of how much has previously been shipped/received against the corresponding release number.
 - In instances where Lucid Motors receives a short-shipped quantity, the next ORDCHG transmitted will still contain the ordered quantity.
 - Suppliers still need to keep track of in-transit quantities until Lucid Goods Receipt are reflected in the next DELJIT or PO update.
 - This must cancel all related demand, including demand from DELFOR and DELJIT

Business Rules

- One ORDCHG per Trading Partner Purchase Order/Scheduling Agreement, Ship From and Ship To location
- ORDCHG can be used to facilitate 3 differing Order Types:
 - Schedule Agreements - Annual Blanket orders

- Includes information such as agreed-upon annual quantities, pricing within validity period
 - No authorization to ship demand
 - Standard Orders - Discrete orders, with specific quantity and delivery date(s)
 - Used in a variety of scenarios such as prototype parts, emergency orders, interim orders pre-DELJIT
 - Authorized to ship demand
 - Framework Orders - Hybrid Blanket order, with specific quantity and horizon delivery date range
 - This order type is used for VMI which is Lucid-owned inventory managed by the supplier
 - Supplier can send multiple shipments against this order within the horizon date range
 - Authorized to ship demand
- Each Standard/Framework PO Line-item request will contain a unique release number
 - This unique RAN will follow that demand item through its life
 - RAN (19 digits) is the combination of
 - Purchase order number (10 digits)
 - Purchase Order Line-Item number (5 digits)
 - A constant of 0001
 - RAN only changes if the delivery date changes
 - Any changes to Part numbers will result in the cancelation of any open orders/quantity of the original release number. Lucid will then create new orders/quantity of the new part number creating a new RAN.
 - Any changes to the Ship From field will result in a new scheduling agreement, order, RAN. Any affected outstanding orders will be cancelled and replaced.

5.3 DELFOR (to Suppliers)

Frequency

- Weekly on Sunday or early Monday morning

Period Covered

- Up to 12-month forecast composed of daily, weekly, and monthly quantities
 - The default DELFOR horizon will include
 - any past due dates as individual daily quantities and dates also seen in DELJIT
 - then a series of Weekly buckets out to 10 weeks seen in DELJIT as individual daily quantities and dates
 - then a series of Monthly buckets out to one year not seen in DELJIT
 - These quantities do not overlap in their time intervals, i.e., dailies will not be included in weeklies and weeklies will not be included in monthlies.

TRANSMITTED FROM:

- Lucid Motors

TRANSMITTED TO:

- Suppliers; 3PL Warehouses

Replacement Logic

- Suppliers must fully replace the contents of previous DELFOR data with the most recent DELFOR message.
- Each 'Replace' (BGM03=5) DELFOR updates all previously received DELFOR info for a Scheduling Agreement, Ship From, Ship To, including cancelling/deleting active (unshipped) demand that is no longer on the current DELFOR
 - If we send a RAN and quantity is zeroed out, there is no demand for that RAN, you should delete it from your system
 - If we send a RAN on Day 1, but on Day 2, that RAN is not in the DELFOR, there is no demand for that RAN, you should delete it from your system

- Example: Received DELFOR for Scheduling Agreement, Ship From and Ship To will replace, in its entirety, the last received DELFOR for the same Scheduling Agreement, Ship From and Ship To
- Full ordered quantities are sent, even on past due demand.
- If a Scheduled Agreement is cancelled, Lucid will no longer send it via EDI.
- In the SCC segment, "Y" is daily. If something is past due it shows up a DAY = Y. If not past due it will be in the W (weekly bucket)

Business Rules

- One DELFOR per Trading Partner Scheduling Agreement, Ship From and Ship To location
- Forecast quantities are not fixed quantities or authorized demand to ship.

5.4 DELJIT (to Suppliers)

Frequency

- Weekly on Sunday or early Monday morning. Manual changes or resends can occur during the week depending on Lucid Material Requirements.

Period Covered

- The current default horizon is up to 70 calendar days of Scheduled Delivery requirements, including any past due deliveries. **NOTE:** This is subject to change.



PLANNING TIME FENCE (FROZEN ZONE)

The planning time fence should be set up and maintained by the Lucid Planner after discussion with the supplier and the planner's leadership. The Planning Time Fence, at a minimum, should be the estimated ship time from dock to dock + any loading time the supplier needs, typically not more than 2 days. The Planning Time Fence can be longer if determined by the collective group.

FIRM ZONE (SLUSHY ZONE)

Outside the Planning Time Fence RANs can be changed by MRP. For either delivery date or qty. MRP will only add demand if there is a shortage, it will not move existing RANs in or out, nor will it change the qty. This is called FIRM ZONE.

Any RAN inside or outside the Planning Time Fence can change if manually adjusted. The RAN is triggered off the due date if the due date changes the RAN# will change. RANs should not change if inside the Planning Time Fence (Frozen Window).

Setting the PLANNING TIME FENCE is the most important part.

Any RAN inside or outside the Planning Time Fence can change if manually adjusted.

The RAN is triggered off the due date, if the due date changes the RAN# will change.

TRANSMITTED FROM:

- Lucid Motors

TRANSMITTED TO:

- Suppliers

Replacement Logic

- Suppliers must fully replace the contents of previous DELJIT data with the most recent DELJIT message.
- Each 'Replace' (BGM03=5) DELJIT updates all previously received DELJIT info for a Scheduling Agreement, Ship From, Ship To, including cancelling/deleting active (unshipped) demand that is no longer on the current DELJIT
 - If we send a Release Authorization Number and quantity is zeroed out (e.g., from DELJIT: QTY*1|0|EA), there is no demand for that RAN, you should delete it from your system. See below Business Rules, definition of RAN.
 - If we send a RAN on Day 1, but on Day 2, that RAN is not in the DELJIT, there is no demand for that RAN, you should delete it from your system
 - Example: Received DELJIT for Scheduling Agreement, Ship From and Ship To will replace, in its entirety, the last received DELJIT for the same Scheduling Agreement, Ship From and Ship To
- Note: 'Change' (BGM03=4) is not used currently.
- Full ordered quantities are sent, regardless of how much has previously been shipped/received against the corresponding RAN.
 - In instances where Lucid Motors receives a short-shipped quantity, the next DELJIT transmitted will still contain the ordered quantity. The Suppliers' system must adjust this ordered quantity to ensure accurate fulfillment of requested quantity for that release number.
 - Example: Original demand was for a quantity of 500 pieces and 200 pieces were shipped. The next DELJIT will still show an order quantity of 500 pieces but the actual remaining quantity to ship is 300.
- To cancel the entire Scheduling Agreement (i.e., all requests under same DELFOR/DELJIT) an ORDCHG is sent with BGM03=1

Business Rules

- One DELJIT per Trading Partner Scheduling Agreement, Ship From and Ship To location
- Each authorized-to-ship request (date, time, part, quantity) will contain a unique RAN
 - This unique RAN will follow that demand item through its life
 - RAN defined as (19 digits) is the combination of
 - Purchase order number (10 digits)
 - Purchase Order Line-Item number (5 digits)
 - A constant of 0001, or for schedule deliveries a 4-digit version of the Julian Date (YDDD).
 - RAN only changes if the delivery date changes
 - Any changes to Part numbers will result in the cancelation of any open orders/quantity of the original RAN. Lucid will then create new orders/quantity of the new part number creating a new RAN.
 - Any changes to the Ship From field will result in a new scheduling agreement, order, RAN. Any affected outstanding orders will be cancelled and replaced.
 - Changes to ShipTo, Line-Item Quantity will not change the unique RAN associated with the line item
 - Any changes to Part numbers will result in the cancelation of any open orders/quantity of the original RAN. Lucid will then create new orders/quantity of the new part number creating a new RAN.
 - Any changes to the Ship From field will result in a new scheduling agreement, order, release number. Any affected outstanding orders will be cancelled and replaced.
 - Any RAN inside or outside the Planning Time Fence can change if manually adjusted.
- Due date and/or Ship date for each request is provided.
- Suppliers need to ensure they provide the latest information from ORDERS, ORDCHG, DELFOR, DELJIT messages in their DESADV and INVOIC turnaround messages (quantities, pricing, delivery dates, part numbers, ship from addressing).
- If a Scheduled Agreement is cancelled, Lucid will no longer send it via EDI.
- SAP will not output a detail schedule line if there is no demand.

5.5 DESADV (to Lucid)

Frequency

The electronic EDI ASN **must be sent within 30 minutes** of transportation departure. Failure to meet this requirement could put your shipment in non-compliance status.

Your ASNs that fail APERAK (status = RE), fail CONTRL/SYNTAX processing, fail consumption into Lucid's SAP system **MUST BE** corrected and resent **BEFORE** your physical shipment arrives at Lucid's warehouse.

ASN Compliance

- ASN Compliance is defined in two parts, but both are focused on the timely and accurate receipt of ASN and label data before Lucid processes your physical shipment. ASNs, Labels, Shipments processed outside of this tolerance are subject to \$1,500 per shipment non-compliance penalty as Lucid incurs significant costs to manually process non-compliant shipments.
 1. **Before Goods Receipt on Lucid's SAP system:**
Supplier sends EDI ASN via True Auto no more than 30 minutes after shipment departure and must be received on Lucid's SAP system before supplier shipment is processed at a Lucid Production facility. EDI ASN successfully passes TC validation checks and sends message to LUCID SAP system to create Inbound delivery (IBD) successfully. If IBD is not created with EDI ASN message it would be considered as ASN non-compliance.
 2. **After Goods Receipt on Lucid's SAP system:**
Goods receipt in LUCID SAP system is posted against EDI Inbound Delivery which exactly matches Supplier ASN and Supplier Label, any discrepancies with physical shipment and ASN IBD for e.g., part number, qty, number of pallets, UOM, missing Transport ID, labels) would be considered as ASN non-compliance.
- Suppliers must understand Lucid's ASN Structure driven by Lucid's PDS (Packaging Data Sheet), which describes how your pallets and cartons are structured>> Physical Shipment Structure>>ASN Data Structure and Labels. See Lucid's ASN Build Out document on the True Commerce EDI site above for more details on the PDS.
 - One ASN per Shipment, Ship To and Ship From location

TRANSMITTED FROM:

- Suppliers

TRANSMITTED TO:

- Lucid Motors

If an ASN must be resent

- If your ASN is errored due to syntax issues, you must correct and resend before your shipment arrives and you can use the same ASN number.
- If your ASN is rejected by APERAK error, you must correct and resend before your shipment arrives and you can use the same ASN number.
- SAPCPI errors - If your ASN passes APERAK check and is presented for consumption by Lucid's SAP system and your ASN errors at that point, you must correct and resend before your shipment arrives and you can use the same ASN number.

Duplicate ASNs/Duplicate Handling Units (HUs)

- If Lucid's SAP system has already processed your ASN, and you send a duplicate ASN, you will be asked if the second ASN is the correct ASN.
- If the duplicate ASN was sent in error, then the duplicate error can be ignored.
- If you intend to send a corrected ASN, you will be asked by Lucid EDI team to confirm if the 2nd ASN is what you want to process so they can delete your ASN record in SAP first. If ASN can't be deleted by Lucid, the supplier will have to send a corrected ASN After confirmation of deletion, you will be asked to retrigger the corrected ASN.

Business Rules

- One ASN per Shipment, Ship To and Ship From location
 - Shipment pertains to one Air/Ocean container, Truck Trailer, or physical containment of one-to-many pallets and/or cartons, which is not separated during the pickup and delivery process.
- All packaging handling units (cartons, pallets) and their packing structure (bulk, mixed, homogeneous part numbers) must be included in ASN to ensure accurate pick pack ship processes. Identifiers are constructed as follows:
 - Data Identifier + Self-Determined Fixed Identifier (a location identifier unique to the supplier's business like an ISO Number, Dun's Number, Odette Number, JIPDEC, or Supplier Ship-From location) + Non-repeating Serial Number (padded out so entire license plate value meets full 18 characters). This value is printed on

Commented [DT3]: This needs to be closed out by the CT Team now

Commented [DT4]: Next Business Rules update, and if APERAK dup check is removed and SAP cancel program is deployed, update dup check section to this:

If an ASN must be resent

- If your ASN is errored due to syntax issues, you must correct and resend before your shipment arrives and you can use the same ASN number.
- If your ASN is rejected by APERAK error, you must correct and resend before your shipment arrives and you can use the same ASN number.
- SAPCPI errors - If your ASN passes APERAK check and is presented for consumption by Lucid's SAP system and your ASN errors at that point, you must correct and resend before your shipment arrives and you can use the same ASN number.

Duplicate ASNs/Duplicate Handling Units (HUs)

- If Lucid's SAP system has already processed your ASN, and you send a duplicate ASN, you will be asked if the second ASN is the correct ASN.
- If the duplicate ASN was sent in error, then the duplicate error can be ignored.
- If your intention was to send a corrected ASN, you need to ask Lucid Material Planner to delete your ASN record in SAP first. After confirmation of deletion you will be asked to retrigger the corrected ASN and can use the same ASN number.

- your shipping label. Please see the Lucid Label Specification for specific label requirements.
- Data Identifiers are: **6J** Master Pallet, **5J** Mixed Pallet, **1J** Carton or box Labels
Example:
6J123456781234567890 (Master pallet)
5J123456781234567890, Mixed pallet)
1J123456781234567890 (Single carton or bulk shipment)
GIR*3*6J123456781234567890|AW
 - **NOTE:** The type of label you apply is driven by your Packaging Data Sheet (PDS). Large, bulky, loose ship items (e.g., glass, car seats, tires, barrels, etc.) only require one, 1J label. If you are not sure, contact your Lucid Packaging Engineer who worked with you setup packaging and shipping requirements.
 - Scheduling Agreement and Purchase Order demand can be mixed on the ASN but only one RAN per 1J value (GIR02:AW). RAN is not required for Master Label GIRs.
 - Any PO received by email does not require an EDI ASN or Invoice.
 - Your ASN build out is closely tied to how your labels are produced and the physical structure of your shipment. Please review the ASN Build Out document on the True Commerce Portal.
- Also required:
 - Total carton count for shipment is in the MEA:BNV segment at the header level. It must equal the number of 1J values in your ASN.
 - Carton count for pallet is found in the QTY01:52 on the outer level, and in the PAC01 on the CPS Inner Level when you are building a homogeneous pallet structure (a pallet with one part number in multiple cartons and layers), or a mixed pallet (a pallet with multiple part numbers).
 - QTY02:52 values are required at every level (outer pack level and inner pack level).
 - Lucid Material Planners and Material Engineering will dictate which products must have a Date of Manufacture or Date of Expiration. Please reach out to your LUCID Material Planner for confirmation.
 - ASNs are not required for the following business scenarios:
 - Returns
 - Prototype Purchase Orders
 - Non-EDI originated orders (i.e, manual orders). If you do not receive an EDI demand message, you won't be able to send an accurate EDI ASN message. Receipt of a manual EDI message is tacit approval by Lucid Commercial that the resulting shipment would be manually processed by Lucid receiving operations.

EDI “TURNAROUND DATA”

Lucid requires certain data returned in your ASN EXACTLY like you received it in your latest EDI DELJIT message. This includes the following data items:

Business Data	DELJIT Location	DESADV Location
Buyer	NAD02:BY	NAD02:BY
Buyer's parent company	NAD02:FD	NAD02:FD
Ship From	NAD02:SF	NAD02:SF
Ship to (Plant ID)	NAD02:ST	NAD02:ST
Importer (Lucid)	NAD02:FD	NAD02:IM *
Purchase Order or Schedule Agreement Number	PIA02	PIA02
Line-Item Number	PIA03	PIA03
Part Number	LIN03	LIN03
Release Number	RFF01	GIR02:AQ
Ship To Street Address	NAD05:ST	NAD02:ST
Ship To City	NAD06:ST	NAD06:ST
Ship To State	NAD07:ST	NAD07:ST
Ship To Zip Code	NAD08:ST	NAD08:ST
Ship To Country	NAD09:ST	NAD09:ST
Plant ID	NAD02:ST	NAD02:ST
UOM	QTY0103:01 (detail level)	QTY0103:12 (detail level)
Price	PRI0102	MOA0102

- o Plant ID and Lucid Ship To Address are found in the supplier's EDI DELJIT message
- o Lucid recommends not hard coding Ship To Codes as Lucid will generate multiple ship to codes with the same address.

* NAD02:IM (Importer Code) is NOT found on the DELJIT, but the value is the same as Buyer's Parent Company (aka NAD02:FD) in the DELJIT. Importer is only valid for international shipments.

Carrier Shipment Tracking Numbers

Your Lucid shipping carrier should provide you with all the carrier shipment carrier shipment tracking numbers you need for EDI during your **transportation pickup arrangements**. These carriers are sensitive and knowledgeable about Lucid Logistics' needs for accurate carrier shipment tracking numbers. If you are not sure, contact carrier and confirm.

Here some examples of how to capture your Carrier Shipment Tracking Number.

Carrier shipment tracking numbers / or Freight Order Number – This is the most important tracking numbers your shipping operations and systems need to capture and flow through EDI in the RFF:ZZZ segment/element. The following examples are subject change as Lucid builds out it's carrier network.

- You must **vigorously monitor** your EDI APERAK error queue for ASN errors, correct them immediately, and send a corrected ASN before your physical shipment is processed at Lucid's warehouse.
- **ASNs and Labels not received timely or accurate subject both your physical shipment AND ASN to non-compliance charge of up to \$1,500.**
- The ASN number should NOT be used for any other tracking number defined in the DESADV RFF specification.
- Conditional requirements on the ASN
 - o All International Suppliers must include
 - Country-of-Origin as the ultimate country of manufacture identifier (ALI)
 - Unit price (MOA segment)

Domestic shipment (US, Canada, Mexico)

Carrier Shipment Tracking Capture and Reporting - Domestic North America Shipments

Shipment Tracking Numbers Domestic North America (Canada, US and Mexico)

Your Lucid shipping carrier should provide you with all the tracking numbers you need for EDI during your transportation pickup arrangements. If you are not sure, contact carrier and confirm.

- CH Robinson Order Number is the carrier shipment tracking number. CHR provides the carrier shipment tracking number via their shipping portal and sends email confirmation.
- You **MUST** ensure the CHR Order Number flows from your shipping system to the EDI subsystem in the RFF:ZZZ field.
- The ASN number should **NOT** be used for any other tracking number in the DESADV (ASN Advanced Shipment Notice) RFF segment.

The CHR Order Number is found on the upper right-hand side of document and also accessible in CHR's portal. Carrier shipment tracking number information must be entered in your ASN along with the correct SCAC code.

Transportation Mode, Carrier name, and SCAC codes (TDT segment) must be provided, or Lucid will reject your ASN.

CHR SCAC code = RBTW

The screenshot shows a CHR shipping document. A red arrow points from the text 'CHR Order Number' to the 'CHR Order Number' field on the document. Another red arrow points from the text 'CHR SCAC code' to the 'CHR SCAC code' field on the document. The document includes fields for Shipper, Ship Date, Consignee, Due Date, and various charges.

International (DSV)

Carrier Shipment Tracking Number Capture and Reporting - International Ocean and Air DSV

Shipment Tracking Numbers International Ocean and Air

- DSV is one multiple Lucid international carriers.
- DSV provides their Carrier Shipment Tracking Number via their shipping portal. Send to this PC sends confirmation via email.
- You **MUST** ensure the DSV Carrier Shipment Tracking Number flows from your shipping system to the EDI subsystem in the RFF:ZZZ field. Your Airway or House Bill goes in the RFF:BH segment.
- When Suppliers ship International, they must ensure the ASN contains the SCAC, Carrier Shipment Tracking Number, Transportation Mode (e.g., air, boat, truck, parcel, hand carry), or Lucid will reject your ASN.
- The ASN number should **NOT** be used for any other tracking number.
- DSV SCAC code = **DSVF**

NOTE: For FedEx shipments, Lucid provides your shipping operations with a FEDEX label. Use that number in your RFF:ZZZ segment as your tracking number.

Lucid's carriers are subject to change, it is incumbent upon supplier shipping operations to ensure they know how to capture the shipment tracking information Lucid requires for your ASN. Lucid carriers are well-versed and aware of the importance to Lucid of providing this tracking information. If you have carrier questions, contact them directly, or your Lucid Transportation rep.

The screenshot shows a DSV Air & Sea Inc. Booking Confirmation document. A red arrow points from the text 'DSV Carrier Shipment Tracking Number' to the 'DSV Carrier Shipment Tracking Number' field on the document. Another red arrow points from the text 'DSV SCAC code' to the 'DSV SCAC code' field on the document. The document includes fields for Shipper, Ship Date, Consignee, Due Date, and various charges.

International (DBS)

Commented [DT5]: TBD Lucid Transportation Team

Carrier Shipment Tracking Number Capture and Reporting - International Ocean and Air DSV

Shipment Tracking Numbers International Ocean and Air

- DSV is one of multiple Lucid international carriers.
- DSV provides their Carrier Shipment Tracking Number via their shipping portal and sends confirmation via email.
- You MUST ensure the DSV Carrier Shipment Tracking Number flows from your shipping system to the EDI subsystem in the RFF:ZZZ field. Your Airway or House Bill goes in the RFF:BH segment.
- When Suppliers ship Internationally, they must ensure the ASN contains the SCAC, Carrier Shipment Tracking Number, Transportation Mode (e.g., air, boat, truck, parcel, hand carry), or Lucid will reject your ASN.
- The ASN number should NOT be used for any other tracking number.
- DSV SCAC code = DSVF

NOTE: For FedEx shipments, Lucid provides your shipping operations with a FEDEX label. Use that number in your RFF:ZZZ segment as your tracking number.

Lucid's carriers are subject to change. It is incumbent upon supplier shipping operations to ensure they know how to capture the shipment tracking information Lucid requires for your ASN. Lucid carriers are well-versed and aware of the importance to Lucid of providing this tracking information. If you have carrier questions, contact them directly, or your Lucid Transportation rep.

The image shows a DSV Booking Confirmation form. It includes fields for Booking Number, Booking Date, Booking Time, and Booking Location. It also lists the Origin and Destination, and provides a detailed description of the shipment. A red arrow points from the 'You MUST ensure the DSV Carrier Shipment Tracking Number flows from your shipping system to the EDI subsystem in the RFF:ZZZ field' instruction to the 'Tracking Number' field in the form.

Carrier Shipment Tracking Capture and Reporting - International Air DBS

Shipment Tracking Numbers International Ocean and Air

- DBS - DB Schenker is one of multiple Lucid international carriers.
- The DBS STT Number must be included on all ASNs for DBS or your ASN will be rejected and if not corrected timely subjects your shipment to non-compliance penalties.
- DBS Carrier Shipment Tracking Number is the STT Code via shipping documents generated on the DBS shipping portal and sent via email.
- You MUST ensure the DBS Carrier Shipment Tracking Number flows from your shipping system to the EDI subsystem in the RFF:ZZZ field. Your Airway or House Bill goes in the RFF:BH segment.
- When Suppliers ship Internationally, they must ensure the ASN contains the SCAC, Carrier Shipment Tracking Number, Transportation Mode (e.g., air, boat, truck, parcel, hand carry), or Lucid will reject your ASN.
- The ASN number should NOT be used for any other tracking number.
- DBS SCAC code = GOLA for Ocean Shipments; SCNK for Air Shipments.

The image shows a DBS Booking Confirmation form. It includes fields for Booking Number, Booking Date, Booking Time, and Booking Location. It also lists the Origin and Destination, and provides a detailed description of the shipment. A red arrow points from the 'You MUST ensure the DBS Carrier Shipment Tracking Number flows from your shipping system to the EDI subsystem in the RFF:ZZZ field' instruction to the 'Tracking Number' field in the form.

Lucid's carriers are subject to change. It is incumbent upon supplier shipping operations to ensure they know how to capture the shipment tracking information Lucid requires for your ASN. Lucid carriers are well-versed and aware of the importance to Lucid of providing this tracking information. If you have carrier questions, contact them directly, or your Lucid Transportation rep.

5.6 RECADV (to Suppliers)

Frequency

- Lucid Motors No Longer requires RECADV message

5.7 INVOIC (to Lucid)

Frequency

- One Invoice per ASN.

TRANSMITTED FROM:

- Suppliers

TRANSMITTED TO:

- Lucid Motors

Business Rules

- Each invoice must only reference one PO / Scheduling Agreement Number. If a shipment has more than one PO / Scheduling Agreement, then in the supplier's billing system two or more invoices must be created.
- For Invoices where there are multiple lines of the same item due to different lots we need the supplier to summarize those lines into a single invoice line.
- For invoices where the shipment had multiple delivery dates for the same item (different RANs) we need the supplier to summarize those lines into a single line with one RAN. For now, any RAN value you chose works.
- INVOIC Must include:
 - ASN number
 - Carrier Shipment Tracking Number
 - Purchase Order or Schedule agreement number
 - Purchase Order or Schedule agreement line item
 - Part price
- All messages will receive a CONTRL response from Lucid.
- All INVOIC will receive an APERAK invoice error response. Suppliers must vigorously monitor their INVOIC APERAK error queue and send corrected invoices immediately if they expect prompt payment.
- Lucid does not accept any ASN or Invoices when the PO is sent/received via email only.
- The requirement for populating SG52.TAX_020_04 (Duty or tax or fee type) - don't send a tax loop if there is no tax information to send. If you must send a tax loop, then send "10"

Commented [DT6]: SR raised concern about not having clear instructions around sending INVOIC changes, whether we have a "change" or "replace" indicator.

Commented [DT7R6]: Lucid doesn't have ability to process a change or replace function.

Commented [DT8R6]: Need to ask AP if supplier needs to send updated invoice, what is the support process? Do we delete the existing invoice? Etc. Whatever this process is must be reflected in the Business Rules

Commented [DT9]: Issue open for Invoices sent by supplier after Lucid's accounting period has closed. For now, Supplier resends INVOIC with a date in the current Lucid accounting period in the DTM01:202 (posting Date)

Need @dave wilcox to provide SAP ticket for this bug fix. If not Lucid EDI needs to open a ticket. BRs can't be published until this resolved.

ERPSYS 4172 - To be released for next SAP sprint. Post invoice regardless of closing of posting period, convert posting date to current. Does not impact quarterly close.

Commented [DT10R9]: This was resolved with DTM change to generate a new posting date when period close errors occur.

the SG52.TAX_020_04 field. NOTE: The value is a capital letter "I" and number "0" – not the number 10!

- The EDI Invoice and Paper Invoice numbers must match. To avoid duplicate invoicing issues when a paper invoice is sent to correct an EDI invoice, the paper invoice number MUST EXACTLY match the EDI Invoice Number under correction.
- Max Invoice Number length is 16 bytes.
- Decimal point should be no more than 2 positions for MOA and PRI fields.
- A supplier can't bill the same part at two different net unit price (corresponding to two different validity pricing periods) on the same invoice during current price validity period. The supplier should bill two invoices, one in a period at one price, the other in a different period at a different price. Lucid AP would prefer manual invoices for payment of product with older validity periods.

For example:

Bad EDI Invoice:

- Part A Current Net Unit Price validity period Jul-Sep 2023 (master data) \$10
- Invoice: abc
- Invoice Date: 08/04/2023
 - Part A
 - Net unit Price \$10
 - Part A
 - Net Unit Price \$15

Good EDI Invoice:

- Invoice abc
- Invoice Date 08/04/2023
 - Part A, Line Item Number
 - Net unit Price \$10

Good Manual Invoice:

- Invoice 123
- Invoice Date 03/11/2023
 - Part A, Line Item Number
 - Net Unit Price \$15

In this case, Part A for \$15, should have an Invoice date within that older part price validity date (whatever was valid 03/11/2023).

When Lucid EDI Support or Lucid AP requires another invoice, they will instruct the supplier to provide that invoice via EDI if the original invoice came via EDI.

5.8 APERAK

APERAK

- Lucid will send APERAK for ASNs and Invoices

Provides

- Acceptance
- Acceptance with error details
- Rejected with rejection details

Process

Suppliers must vigorously monitor their APERAK queue for Invoice and ASN errors. ASNs APERAK errors should have a priority as you are required to provide an ASN 30 minutes after shipment departure. If you need to correct your ASN as a result of an APERAK error, that correction must be accurate and resent before Lucid processes your physical shipment (your DESADV DTM:17 Delivery Date).

Lucid tracks your APERAK error performance - How quickly errors are detected and resolved, number and type of errors. Lucid expects suppliers to take prompt action on these errors to correct your ASNs and Invoices and resend them so they can be effectively consumed by Lucid's systems.

In the near future, Lucid will be removing the APERAK check for RAN on both EDI DESADV (ASN) and INVOIC. You still need to provide a RAN in the DESADV (GIR02:AQ), but any RAN can be used in your EDI INVOIC.

Commented [DT11]: Add this verbiage? "Lucid tracks your APERAK error performance - How quickly errors are detected and resolved, number and type of errors. Lucid expects suppliers to take prompt action on these errors to correct your ASNs and Invoices and resend them so they can be effectively consumed by Lucid's systems."

5.9 CONTRL

CONTRL

- **EVERY** EDI message, whether inbound or outbound **MUST BE** responded to with a CONTRL message.

Commented [DT12]: •NEED TC TO MAP UC101 TO DOC REF FIELD ON THE PORTAL FOR CONTRL

Commented [DT13R12]: Need to create a CO to make this effective. Doesn't impact Business Rules Document.