NMFTA Digital LTL Council

Product Requirements Document (PRD) for Preliminary Freight Charges (PFC)

June 2025

Contents

Revision History

Date	Author(s)	Summary of Changes
12/29/204	Lilly Hartzog	Initial Draft

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1   Purpose

The Preliminary Freight Charges (PFC) API proactively notifies responsible parties that a motor carrier has created a freight bill for a shipment associated to that party. Further notifications will occur when the bill has been updated or removed from their account.

The objective of the PFC API is to provide proactive freight charge visibility, improve accounting, reduce disputed invoices, and remove friction from the payment process for all stakeholders.

2 Features and Deliverables

2.1 Business Rules

Key business rules include:

- Once the carrier is in possession of a shipment, they will inspect the shipment based on the physical or electronic BOL and validate the accuracy of the shipment details and rate the shipment.

- Throughout the shipment, any changes that may arise from correcting shipment details (e.g. reweigh) or adding/removing accessorials/services that were not part of the original shipper request (e.g. liftgate) update the freight bill charges.

- This API will initially trigger after the carrier rates the shipment once the PRO number is assigned and the charges start to be accumulated. It will notify shippers of charges as the shipment is in transit.

- This API will provide responsible parties with visibility into changes in the freight charges of the shipment as the shipment is in transit.

- There will be a standardized list of coded events that will be monitored and reported for each shipment. If there is a carrier event outside of this list it will be reported in the change log as the carrier process allows

- When a debtor is onboarded for the API, the monitoring and reporting will begin with the status of any shipment(s) in flight.

- The PFC Process ends when the invoice is produced.

- PFC should not be construed as an invoice or request for payment.

- PFC is NOT a legal document.

2.2 Important Considerations

- The initial PFC transmission should occur after the shipment is in carrier possession, the freight bill has been created, and the PRO has been rated.

- PFC is intended to be a subscription-based push API

- PFC transmissions contain confidential information and access must be controlled. PFC is intended only for debtors and/or their agents. Non-bill-to parties should never have access.

- Customers may choose to use detailed data, change log, or both. This can be accomplished via customer implementation; separate APIs are not planned. These options may be limited by Carrier capabilities.

- Customers want to select subscription frequency options. Ideally customers would have choices when subscribing (real time, hourly, daily, etc.). Timing options may be limited by Carrier rating frequency.

- In general updates should be triggered when changes occur including:
  - Change to the Shipper, Consignee, or Bill-To

– Change in the Account number used for Pricing

– Change in the Payment Terms

– Add or Remove an Accessorial (including $0 waived accessorials)

– Change to Shipment Characteristics resulting in freight charge change

2.3 Compatibility with eBOL

Table 1 eBOL Location Types for Backwards Compatibility

eBOL v2.0.1 Existing Codes	eBOL v2.1 Single List of Codes (Mix of existing + new)	eBOL v2.1 Description (new, granular)
Airport	Airport	
	Airport-3	Airport Cargo
Church	Church	
	Church-55	Place of Worship
Club	Club	
	Club-21	Country Club / Golf Course
	Club-60	Private Club
Construction	Construction	
	Construction-17	Construction Site
Fair	Fair	
	Fair-27	Fairgrounds
Farm	Farm	
	Farm-30	Fruit Orchard
	Farm-62	Pumpkin Patch / Vegetable Patch
	Farm-87	Winery
Hotel	Hotel	
	Hotel-14	Casino
	Hotel-35	Hotel
	Hotel-41	Lodging
	Hotel-47	Motel / Inn
	Hotel-54	Parking Lot / Garage
	Hotel-65	Resort
	Hotel-66	Restaurant / Bar

Mine	Mine	
	Mine-46	Mine / Quarry
Other	Other	
	Other-6	Book Store
	Other-7	Bowling Alley
	Other-8	Brewery
	Other-9	Business Park
	Other-12	Car Rental
	Other-13	Car Wash
	Other-19	Convenience Store
	Other-23	Daycare
	Other-24	Dealership
	Other-25	Distillery
	Other-26	Factory Outlet
	Other-28	Fast Food
	Other-31	Funeral Home
	Other-33	Gym / Fitness Center
	Other-38	Laundry / Dry Cleaner
	Other-40	Liquor Store
	Other-42	Mall
	Other-48	Native American Reservation
	Other-52	Other
	Other-67	Retail Store
	Other-68	Salon / Barber
	Other-72	Shopping Center
	Other-75	Specialty Food Store
	Other-78	Theater
	Other-80	Truck Stop
	Other-83	Vet / Kennel
Park	Park	
	Park-4	Amusement Park
	Park-5	Aquarium
	Park-10	Camp
	Park-11	Campground / RV Park

	Park-15	Cemetery
	Park-53	Park
	Park-64	Recreational
	Park-73	Ski Resort
	Park-76	Sports Venue
	Park-77	State / National Park
	Park-88	Zoo
Port	Port	
	Port-22	Cruise Line Terminal
	Port-29	Ferry
	Port-43	Marina
	Port-57	Port
School	School	
	School-34	Hospital
	School-36	Junior College
	School-39	Library / Museum
	School-44	Medical Facility
	School-50	Nursing Home / Assisted Living
	School-56	Police / Fire / Rescue
	School-61	Public Transit Station
	School-69	School
	School-70	School District Office
	School-79	Trade School
	School-81	University / College
Secure	Secure	
	Secure-32	Government Site
	Secure-37	Junkyard / Landfill
	Secure-45	Military Base
	Secure-49	Nuclear Power Plant
	Secure-51	Oil / Gas
	Secure-58	Power Plant
	Secure-59	Prison / Detention Center
	Secure-63	Rail Yard
	Secure-74	Solar Power Farm

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	Secure-82	Utility Site
	Secure-84	Waste Transfer Station
	Secure-85	Water Treatment Plant
	Secure-86	Wind Power Farm
Storage	Storage	
	Storage-18	Container Freight Station
	Storage-71	Self-Storage Warehouse
Tradeshow	Tradeshow	
	Tradeshow-16	Conference Center
	Tradeshow-20	Convention Center

3 Use Cases, Definitions, & Workflows

3.1 Use Cases

3.1.1 Freight Billing

Allows the Freight Bill's Responsible Party to:

- Receive notification of a new freight bill and the initial freight bill charges

- Get timely updates of changes to the initial charges throughout the life of the shipment

- Update any charges to be passed along to the Customer

- Be notified they are no longer the Responsible for the freight bill

- Be notified they are now a party to the Invoice

- Create better and more timely accruals

- Make more accurate payments to the Carrier

- Respond to freight bill charges proactively instead of reactively

- Have visibility to correct data before invoices are issued

- Notify consignees of amended freight bill charges prior to receiving an invoice

3.1.2 Carrier

Allows the Carrier to:

- Reduce the number of collections disputes

- Reduce administration time to research disputes

- Receive payment sooner

3.2 Definitions

3.2.1 Event Codes

Table 2 Event Codes

Trigger Event Category	Standard DLC Code	Standard DLC Code Description for the Swagger Definitions
Reclass	RCL	Reclassification of the freight
Reweigh	RWE	Reweigh of the freight
Reconsignment	RCC	Reconsignment of the freight
Detention	DET	Detention of the freight
Notify prior to the Delivery	MNC	Must notify consignee
Appointments	APTD	Appointment required at delivery
	APTP	Appointment required at pickup
Residential	REP	Residential pickup
	RES	Residential delivery
Liftgate	LFTD	Lift gate required at delivery
	LFTP	Lift gate required at pickup
BOL Name or Address Changes	CBL	BOL Name or Address Changes
Account Changes	ACTCHG	Account change to Shipper, Consignee or Biller or Terms
Limited Access	LTDAD	Limited Access delivery
	LTDAP	Limited Access pickup
Storage	STG	Storage Fee
Lumper	LUM	Lumper Fee
Unloading Allowance	UNL	Unloading Allowance
In Bond Charges	INBC	In Bond Shipment Charges

Trigger Event Category	Standard DLC Code	Standard DLC Code Description for the Swagger Definitions
Final	FINL	Invoice has been processed; end of PFC for this shipment
Other Event	OTHR	Other Event
Cubic Capacity Reached	CBC	Cubic Capacity reached
Excessive Length	OVR	Over dimension/excessive length
Density Minimum Charge	DMIN	Density Minimum Charge
Cubic Minimum Charge	CMIN	Cubic Minimum Charge
Vehicle Order Not Used	VOR	Vehicle Order not used
Redelivery	RDL	Redelivery
Security Fee	SEC	Security Fee
HIGH-COST PU	HIPU	High-Cost Pickup
HIGH-COST DL	HIDL	High-Cost Delivery
California Compliance Surcharge	CCS	California Compliance Surcharge
COD	COD	Collect on delivery
Expedited Service	EXPD	Expedited Service
Full value coverage	FVC	Full value coverage
Guaranteed service- by morning	GTD_AM	Guaranteed service- by morning
Guaranteed service- by noon	GTD_NOON	Guaranteed service- by noon
Guaranteed service- by end of day	GTD_PM	Guaranteed service- by end of day
Hazardous material	HAZ	Hazardous material
Inside delivery	IDL	Inside delivery
Inside pickup	IPU	Inside pickup
In bond shipment	INBD	In bond shipment
Marked or tagged	MARK	Marked or tagged
Perishables (food)	PPD	Perishables (food)
Protect from cold	PSC	Protective from cold

Trigger Event Category	Standard DLC Code	Standard DLC Code Description for the Swagger Definitions
Protect from heat	PSH	Protective from heat
Poisonous material	PSN	Poisonous material
Sort and segregate	SRT	Sort and segregate
Single Shipment	SS	Single shipment
Time critical service	TCS	Time critical service

3.2.2 Carrier Options

Table 3 Carrier Options

Options	Versioned Shipment Data — Minimum Required — Pick 1		Include Events/Change Log — Optional — Pick 1			Timing and Method — Carrier Defined			Included Bills — Carrier Defined		Platform — Carrier Defined		Data Retention Length — Carrier Defined	
	Shipment Data Revenue Impacts Only	Shipment Data All Impacts to Monitored Events	Events Revenue Impacts Only	Events All Impacts	No Events*	Push the New Version When Event is Recorded	Push the New Version 1 Time Daily	Debtor will Pull	All Bills for All Accounts	Bills for Subscribed Accounts	API	UI	Yes	No
1	X				X	X	X	X	X	X	X	X	X	X
2	X		X											
3		X		X										
4		X			X									

3.2.3 Shipment API

For more details, see the Shipment API worksheet in the PFC PRD Excel workbook.
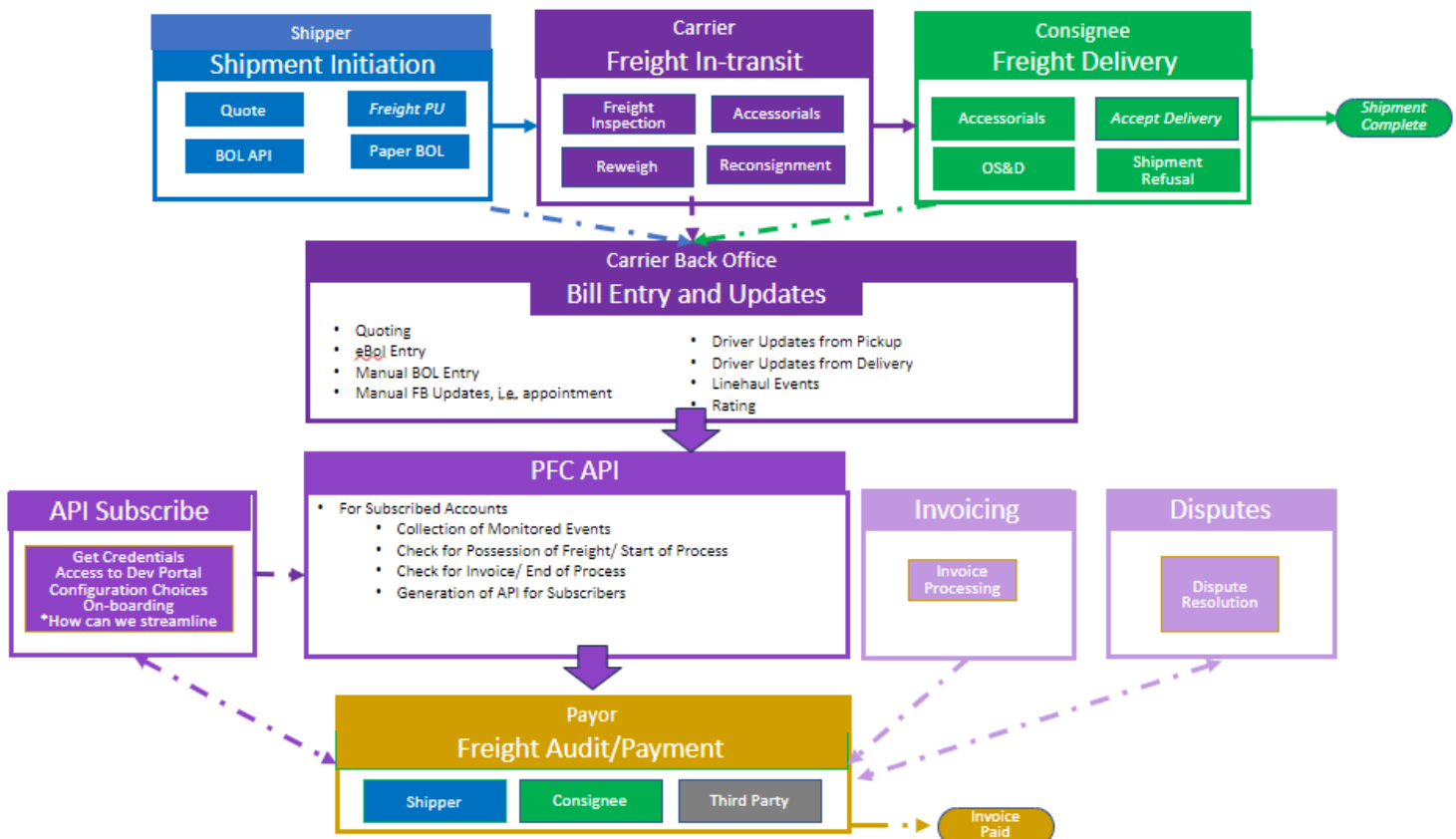
3.2.4 API Examples or Use Cases

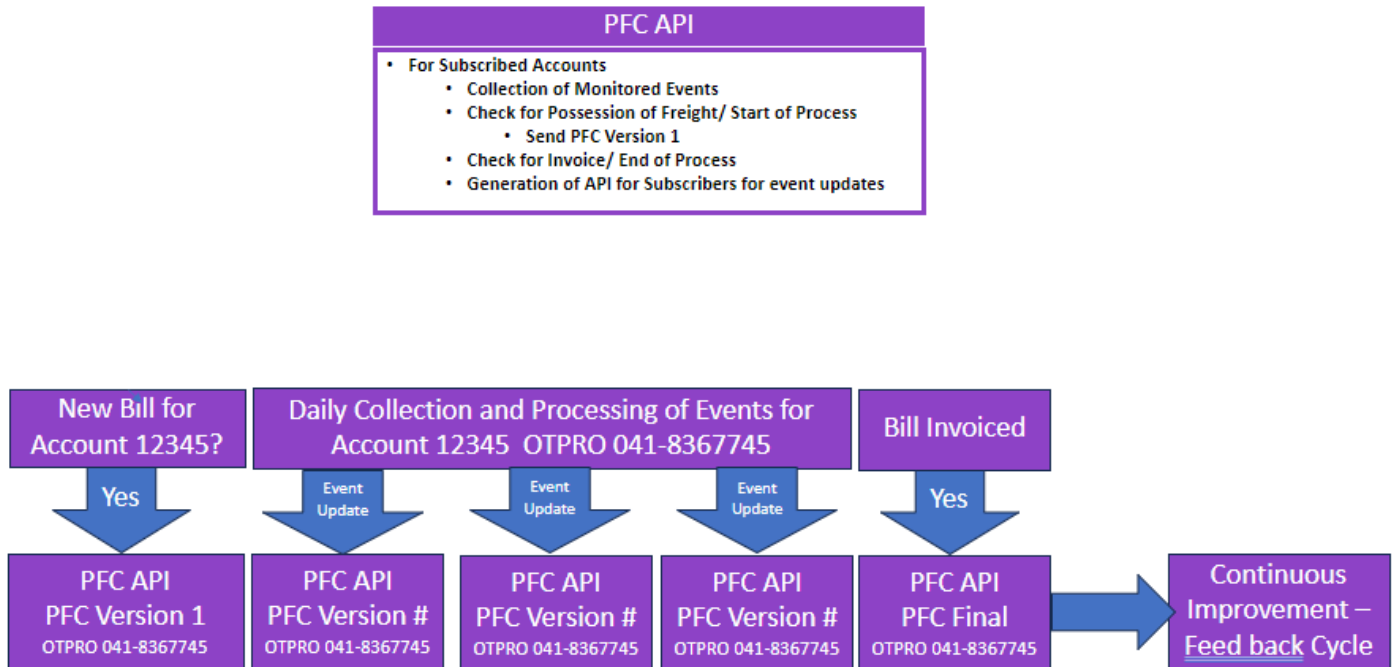For more details, see the API Examples or Use Cases worksheet in the PFC PRD Excel workbook.

3.2.5 API Example for Party Change

For more details, see the API Example for Party Change worksheet in the PFC PRD Excel workbook.

3.3 Workflows

Figure 1 Preliminary Freight Charges Flow

Figure 2 Preliminary Freight Charges Flow Pt. 2

4 Glossary

Term	Definition
Freight Bill	Carrier's record of the shipment; not a Bill of Lading or an invoice