

Modified NIOP Business Rules for EZIOP and CUSIOP Interoperability

Last Update: April 13, 2026

Revision: 20260413.0

Document History

Revision Date	Version	By	Revision Description
August – November 2025	2025	B. Jewell	Created
January 2026	2026	B. Jewell	Added detail to document how fees should be calculated for Credit Transactions. Note: Credit Transactions are not considered Credit Adjustments/Corrections, they are transactions.
April 13, 2026	20260413	B. Jewell	EZIOP: EMC Approved: April 9, 2026 CUSIOP: SC Approved: March 25, 2026 Document finalized.

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1 Introduction

1.1 Purpose

The purpose of this document is to record the business rules for National Interoperability (NIOP) that have been modified for the CUSIOP and EZIOP Hub's purpose.

1.2 Modified NIOP Business Rules

1.2.1 General Business Rules

1.2.1.1 NIOP-GEN-9

1.2.1.1.1 Original Business Rule

NIOP-GEN-9. If a Home Hub receives a Valid Transaction that is a Tag Transaction or guaranteed Video Transaction and acknowledges the Transaction within 30 Days of the Transaction date, the Transaction is guaranteed to be paid by the Home Agency.

Note: The timing is based on the Transaction date where the Valid Transaction utilizes the active TVL or PVL at the time of the Transaction; if the timing is not met, the Transaction is not guaranteed to be paid by the Home Agency. The calculation using the fields in the NIOP ICD is: Home Hub Acknowledgement Date/Time of STRAN Submission (from Away Hub) minus STRAN Transaction Exit Date/Time \leq 30.0 days will be guaranteed.

1.2.1.1.2 Modified Business Rule

NIOP-GEN-9. If a Home Hub receives a Valid Transaction that is a Tag Transaction or guaranteed Video Transaction and acknowledges the Transaction within thirty (30) days of the Transaction date, the Transaction is guaranteed to be paid by the Home Agency. For closed accounts, if the Home Hub receives a Valid Transaction and acknowledges the transaction within ten (10) days of the Transaction, the Transaction is guaranteed to be paid by the Home Agency.

Note: The timing is based on the Transaction date where the Valid Transaction utilizes the active TVL or PVL at the time of the Transaction; if the timing is not met, the Transaction is not guaranteed to be paid by the Home Agency. The calculation using the fields in the NIOP ICD is: Home Hub Acknowledgement Date/Time of STRAN Submission (from Away Hub) minus STRAN Transaction Exit Date/Time \leq 30.0 days will be guaranteed.

1.2.1.1.3 Reason for Modification

The IAG guarantee is 10 days for closed accounts and 60 days otherwise. IAG 1.60.03 guarantees plate transactions based on the LIC_GUARANTEED field in the ICLP file.

1.2.1.1.4 Approvals

EZIOP Approved By: Hub Administrative Team (HAT)

CUSIOP Approved By:

August 19, 2025, Steering Committee

CTRMA	E-470	FBCTRA	HCTRA	KTA	NTTA	OTA
G. Mack	A. Vescera	L. Castaneda	A. Mirmira	B. Meisch	J. Dailey	A. Boulden †

*Voting Member | † Voting Member via Proxy

1.2.1.2 NIOP-GEN-11

1.2.1.2.1 Original Business Rule

NIOP-GEN-11. If the Home Hub receives a Valid Transaction more than thirty (30) days but less than or equal to ninety (90) days from the Transaction date, the Transaction will be accepted by the Home Agency subject to the availability of funds in the account. This is defined as Non-Guaranteed Toll Transactions.

Note: The timing is based on the Transaction date; if the timing is not met and exceeds ninety (90) days from the Transaction date, the Transaction may not be processed by the Home Agency and rejected as “Transaction too old”. The calculation using the fields in the NIOP ICD is: Home Hub Acknowledgement Date/Time of STRAN Submission (from Away Hub) minus STRAN Transaction Exit Date/Time > 30.0 days and <= 90.0 days will attempt to post and will pay if posted.

1.2.1.2.2 Modified Business Rule

NIOP-GEN-11. If the Home Hub receives a Valid Transaction more than thirty (30) days but less than or equal to sixty (60) days from the Transaction date, the Transaction will be accepted by the Home Agency subject to the availability of funds in the account. This is defined as Non-Guaranteed Toll Transactions.

Note: The timing is based on the Transaction date; if the timing is not met and exceeds sixty (60) days from the Transaction date, the Transaction may not be processed by the Home Agency and rejected as “Transaction too old”. The calculation using the fields in the NIOP ICD is: Home Hub Acknowledgement Date/Time of STRAN Submission (from Away Hub) minus STRAN Transaction Exit Date/Time > 30.0 days and <= 60.0 days will attempt to post and will pay if posted.

1.2.1.2.3 Reason for Modification:

IAG allows transactions to be submitted up to sixty (60) days, not ninety (90) days, for E-ZPass.

CUSIOP allows transactions to be submitted up to sixty (60) days, not ninety (90) days, for CUSIOP and SEIOP.

1.2.1.2.4 Approvals

EZIOP Approved By: Hub Administrative Team (HAT)

CUSIOP Approved By:

August 19, 2025, Steering Committee

CTRMA	E-470	FBCTRA	HCTRA	KTA	NTTA	OTA
G. Mack	A. Vescera	not present	A. Mirmira	B. Meisch	J. Dailey	A. Boulden †

*Voting Member | † Voting Member via Proxy

1.2.1.3 NIOP-GEN-12

1.2.1.3.1 Original Business Rule

NIOP-GEN-12. If an Agency receives an Invalid Transaction within ninety (90) days of the Transaction date, the Transaction may be accepted by the Home Agency subject to the availability of funds in the account, the status of the tag/license plate and the Home Agency's Business Rules.

Note: The timing is based on the Transaction date; if the timing is not met, the Transaction may be rejected by the Home Agency.

The calculation using the fields in the NIOP ICD is: Home Hub Acknowledgement Date/Time of STRAN Submission (from Away Hub) minus STRAN Transaction Exit Date/Time ≤ 90.0 days will attempt to post and will pay if posted.

1.2.1.3.2 Modified Business Rule

NIOP-GEN-12. If an Agency receives an Invalid Transaction within sixty (60) days of the Transaction date, the Transaction may be accepted by the Home Agency subject to the availability of funds in the account, the status of the tag/license plate and the Home Agency's Business Rules.

Note: The timing is based on the Transaction date; if the timing is not met, the Transaction may be rejected by the Home Agency.

The calculation using the fields in the NIOP ICD is: Home Hub Acknowledgement Date/Time of STRAN Submission (from Away Hub) minus STRAN Transaction Exit Date/Time ≤ 60.0 days will attempt to post and will pay if posted.

1.2.1.3.3 Reason for Modification:

IAG allows transactions to be submitted up to sixty (60) days, not ninety (90) days, for E-ZPass.

CUSIOP allows transactions to be submitted up to sixty (60) days, not ninety (90) days, for CUSIOP and SEIOP.

1.2.1.3.4 Approvals

EZIOP Approved By: Hub Administrative Team (HAT)

CUSIOP Approved By:

August 19, 2025, Steering Committee

CTRMA	E-470	FBCTRA	HCTRA	KTA	NTTA	OTA
G. Mack	A. Vescera	L. Castaneda	A. Mirmira	B. Meisch	J. Dailey	A. Boulden †

*Voting Member | † Voting Member via Proxy

1.2.2 Data Interchange Business Rules

1.2.2.1 NIOP-DIR-23

1.2.2.1.1 Original Business Rule

NIOP-DIR-23. The Home Hub shall Acknowledge receipt of the Transaction Submission(s) from the Away Hub within sixty (60) minutes of receipt.

Note: The timing is based on the date and time in the submission header. If an ACK is not received, the submission should be resent. If still no ACK, the technical staff should be notified. The calculation using the fields in the NIOP ICD is: Home Hub Acknowledgement Date/Time of the STRAN (or SCORR) (from Away Hub) minus Away Hub STRAN (or SCORR) Submission Date/Time <= 60.0 minutes.

1.2.2.1.2 Modified Business Rule

NIOP-DIR-23. The Home Hub shall Acknowledge receipt of the Transaction Submission(s) from the Away Hub within one hundred and twenty (120) minutes of receipt.

Note: The timing is based on the date and time in the submission header. If an ACK is not received, the submission should be resent. If still no ACK, the technical staff should be notified. The calculation using the fields in the NIOP ICD is: Home Hub Acknowledgement Date/Time of the STRAN (or SCORR) (from Away Hub) minus Away Hub STRAN (or SCORR) Submission Date/Time <= 120.0 minutes.

1.2.2.1.3 Reason for Modification:

Recommendation made by EZIOP Team to reduce the number of duplicate submissions due to a longer acknowledgement process.

1.2.2.1.4 Approvals

EZIOP Approved By: Hub Administrative Team (HAT)

CUSIOP Approved By:

CUSIOP Technical Committee agreed with this approach. No vote required by the Steering Committee since the functionality is not modified.

Reviewed during the September 23, 2025, Steering Committee meeting.

1.2.2.2 NIOP-DIR-39

1.2.2.2.1 Original Business Rule

NIOP-DIR-39. The Home Agency may elect to not process Interoperable Transactions submitted to the Home Agency by the Away Agency more than ninety (90) days after the date and time of the Interoperable Transaction.

Note: The timing is based on the Transaction date. If the Transaction is sent to the Home Agency after the allotted time, the Home Agency may choose not to process the Transaction. If the Home Agency does not process the Transaction, the Away Agency may choose to invoice the Transaction. The calculation using the fields in the NIOP ICD is: Current date/time minus Transaction Exit Date/Time > 60.0 days.

1.2.2.2.2 Modified Business Rule

NIOP-DIR-39. The Home Agency may elect to not process Interoperable Transactions submitted to the Home Agency by the Away Agency more than sixty (60) days after the date and time of the Interoperable Transaction.

Note: The timing is based on the Transaction date. If the Transaction is sent to the Home Agency after the allotted time, the Home Agency may choose not to process the Transaction. If the Home Agency does not process the Transaction, the Away Agency may choose to invoice the Transaction. The calculation using the fields in the NIOP ICD is: Current date/time minus Transaction Exit Date/Time > 60.0 days.

1.2.2.2.3 Reason for Modification:

IAG allows transactions to be submitted up to sixty (60) days, not ninety (90) days, for E-ZPass.

CUSIOP allows transactions to be submitted up to sixty (60) days, not ninety (90) days, for CUSIOP and SEIOP.

1.2.2.2.4 Approvals

EZIOP Approved By: Hub Administrative Team (HAT)

CUSIOP Approved By:

August 19, 2025, Steering Committee

CTRMA	E-470	FBCTRA	HCTRA	KTA	NTTA	OTA
G. Mack	A. Vescera	L. Castaneda	A. Mirmira	B. Meisch	J. Dailey	A. Boulden †

*Voting Member | † Voting Member via Proxy

1.2.3 Transaction Fee Business Rules

1.2.3.1 Credit Transaction Fee Business Rules

1.2.3.1.1 Original Business Rule

N/A

1.2.3.1.2 Modified Business Rule

NIOP-FEE-04. Transaction fees charged on accepted/posted Credit Transactions shall be calculated and charged to the Away Agency. Examples are below.

Example 1 - Away Agency pays (refunds) the Home Agency \$5.00 Toll Amount and the 15 cents fee. Total amount credited/paid to Home Agency is \$5.15.

Example 2 – The Per Transaction Flat Fee is \$0.02 instead of \$0.00. Away Agency pays the Home Agency \$5.00 Toll Amount and \$0.02 plus \$0.15 (\$0.17) in fees.

Credit Transaction (CT01) Example	Posted Toll Amount	Per Transaction Flat Fee	3% Per Transaction Variable Fee	Total Posted (Credited) Amount at Home Agency
1	\$-5.00	\$-0.00	\$-0.15	\$-5.15
2	\$-5.00	\$-0.02	\$-0.15	\$-5.17

Reason For Modification

Fee business rules as they relate to Credit Transactions have not been previously documented.

1.2.3.1.3 Approvals

EZIOP Approved By: EMC April 9, 2026

CUSIOP Technical Committee agreed with this approach. No vote required by the Steering Committee since the fees were not modified.

Reviewed during March 17, 2026, Steering Committee meeting.