Visa Commercial Enhanced Data Program (CEDP) Error Guide

Visa's new Commercial Enhanced Data Program (CEDP) will validate enhanced data provided with Commercial Card transactions. **Effective October 17, 2025**, if your Commercial card transaction data submissions do not meet the required standards, you will no longer qualify for Level II and Level III incentive rates.

You may be at risk of increased interchange expenses if data quality standards are not met by October 17, 2025.

The below guide is designed to assist you in understanding errors within your transaction data and becoming compliant with Visa requirements. Please investigate the error(s) we have identified. Investigations may include software providers, depending on who controls your data inputs.

Level III (L3) CEDP Data Errors:

Error Code	What does this mean?	How do I become compliant?
CS-0001	The Number of Payment Forms field is not being populated with one of the valid data values ((space), 1, 2, 3, 4, 5, 6, 7, 8, 9, +). The Number of Payment Forms specifies the number of payments used for the transaction.	The Number of Payment Forms field must be populated with one of the below valid data values: A value of '1' or 'space' indicates 'paid in full on this single Visa card.' A value of '2' through '9' indicates 'additional partial payments made.' A value of '+' (plus) indicates 'greater than 9.'
CS-0002	The Purchase Identifier Format field is not being populated with one of the valid data values ((space), 0, 1, 5).	The Purchase Identifier Format field must be populated with one of the below valid data values: A value of '1' indicates 'Order number.' A value of '5' indicates 'Invoice Number.' A value of 'space' or '0' indicates 'Field not used.'
CS-0003	The Purchase Identifier Format field is populated with a '1' (Order Number) or '5' (Invoice Number), but the Purchase Identifier field is missing/blank. The Purchase Identifier field represents the unique order or invoice number for the transaction.	If the Purchase Identifier Format field is populated with a '1' or '5', then the Purchase Identifier field must be populated with the unique Order or Invoice Number for the transaction. Unused positions of the field must be space-filled.

CS-0004	Local Tax Included field is not being populated with a data value of '1' or '2' as required.	The Local Tax Amount listed must accurately reflect what was captured at the time of the transaction. If no tax was collected or Local Tax Amount is not available, enter zeros.
	'1' indicates the line item is 'Taxable.' '2 indicates the line item is 'Tax Exempt.' Note: '0' is not acceptable for Enhanced Data.	If the Local Tax Amount is populated and over $0.00, then Local Tax Included field must reflect a '1' for Taxable. If no tax was collected or Local Tax Amount is not available, then the Local Tax Included field must reflect a '2' for 'Tax Exempt.' Tax estimation is not allowed.
CS-0005	Local Tax Included must be a '1' when Local Tax Amount is provided. '1' indicates the line item is 'Taxable.' Note: '0' is not acceptable for Enhanced Data.	The Local Tax Amount listed must accurately reflect what was captured at the time of the transaction. If tax was collected, then the Local Tax Included field must reflect a '1' for 'Taxable.' Tax estimation is not allowed.
CS-0006	Local Tax Included must be '2' when Local Tax Amount is not provided. '2' indicates the line item is 'Tax Exempt.' Note: '0' is not acceptable for Enhanced Data.	The Local Tax Amount listed must accurately reflect what was captured at the time of the transaction. If no tax was collected or Local Tax Amount is not available, enter zeros. If no tax was collected or Local Tax Amount is not available, then the Local Tax Included field must reflect a '2' for 'Tax Exempt.' Tax estimation is not allowed.
CS-0007	The National Tax Amount isn't populated with a value of '0'	The National Tax Amount should be populated with a value of '0.'
CS-0008	The National Tax Included field is not populated with a value of '0'	The National Tax Included field should be populated with a value of '0.'
CS-0009	The Message Identifier field is missing/blank. The acquirer, Worldpay, assigns a unique Message Identifier (across the network) to each commercial card transaction that	If a merchant has this specific CEDP Error, please reach out to Worldpay to investigate further.

	generates TC 50 records containing additional transaction detail.	
CS-0010	The Time of Purchase (HHMM) field is populated with an invalid value. The Time of Purchase field captures the local time in which the transaction took place.	If the Time of Purchase appears on the invoice, it must be provided in this field. The Time of Purchase should be populated in the below format with a valid time of purchase: • 'HHMM', where 'HH' is the hours (00-23) and 'MM' is the minutes (00-59) of the time of purchase
CS-0011	The total amount charged for the transaction (Source Amount) is not equal to the combined value of Line Items Totals, Tax(es), Invoice-Level Shipping, and Invoice-Level Discount.	The Source Amount must equal the combined of the transaction parts, including: • Line-Item Totals; • Minus Invoice-level discounts; • Plus, freight/shipping; • Plus, associated tax(es) These inputs (Line-Item Totals, Freight Shipping, and Tax) must be accurate and, when combined, equal the amount charged for the transaction.
CS-0012	The Local Tax Amount is not equal to the combined value of Tax(es). Local Tax is the total amount of Sales Tax collected by the merchant on this invoice.	The Local Tax Amount must be equal to the sum of all Tax(es) fields. Two decimal places are implied. Tax estimation is <u>not</u> allowed.
TC50-0001	The TC50 PURCHA records are missing/blank.	The Level 2 Transaction Detail records cannot be missing/blank. They must be populated with valid transaction-level detail data.
TC50-0002	The TC50 PURCHL records are missing/blank.	The Level 3 Line-Item Detail records cannot be missing/blank. They must be populated with valid Line-Item detail data.
TC50-0003	Multiple TC50 record types have been found.	Only one TC50 record type can be sent.
TC50-0004	Duplicate TC50 PURCHA records have been found for this commercial card transaction.	Duplicate Level 2 Transaction Detail records cannot be sent.
TC50-0005	Duplicate TC50 PURCHL records have been found for this commercial card transaction.	Duplicate Level 3 Line-Item Detail records cannot be sent.
TC50-0006	The Destination Postal/ZIP Code field doesn't reflect the	The Destination Postal/ZIP Code field must be provided if shipment is involved and captured on the invoice. It must reflect the Destination Country Code format:

	format of the Destination Country Code.	• US: 5 digits + 4 digits (ex: 100010000). o If 4 digits are not available, then you can populate '0' for the missing 4 digits • Canada: ANA[space]NAN
TC50-0007	The Destination Country Code field is not being populated with a valid ISO Country Code.	The Destination Country Code field must be provided if shipment is involved. It must be populated with a valid ISO Country Code (3-digits country code) to represent the destination country for the goods and services on the invoice.
TC50-0009	The Order Date (YYMMDD) field is being populated with an invalid data value. The Order Date field specifies the date that the original order was placed.	The Order Date field must be populated with a valid value and in the correct format: • 'YYMMDD', where 'YY' is the last two digits of the year, 'MM' is the two-digit month (01 - 12), and 'DD' is the two-digit day (01-31) If the Order Date appears on the invoice, it must be provided in this field.
TC50-0010	The Freight/Shipping Amount is populated with a value of '0', but the VAT/Tax Amount (Freight/Shipping) is not populated with a value of '0'.	If the Freight/Shipping Amount is being populated with a value of '0', then the VAT/Tax Amount must also be populated with a value of '0.' Two decimal places are implied.
TC50-0011	VAT/Tax Amount (Freight/ Shipping) doesn't equal Freight/Shipping Amount multiplied by Freight Tax Rate.	The VAT/Tax Amount value populated must be equal to the Freight/Shipping Amount that's populated multiplied by the Freight Tax Rate that's populated. • VAT/Tax Amount = Freight/Shipping * Freight Tax Rate
TC50-0012	The Freight/Shipping Amount is populated with a value of '0', but the VAT/Tax Rate (Freight/Shipping) is not populated with a value of '0.'	If the Freight/Shipping Amount is being populated with a value of '0', then the VAT/Tax Rate must also be populated with a value of '0.' Two decimal places are implied.
TC50-0013	If the Authorization Code field is populated, then it must be equal to the TC50 Authorization Code.	If the Authorization Code field is not missing/blank, then it must be the same as (equal to) TC50 Authorization Code.
TC50-0014	The Invoice Level Discount Treatment Code field is not being populated with one of the valid data values (0, 1, 2). The Invoice Level Discount Treatment Code identifies how to treat a discount if it was provided at the invoice level.	The Invoice Level Discount Treatment Code field must be populated with one the valid data values below: • '0' indicates 'no invoice level discounts apply for this invoice' • '1'indicates 'Tax was calculated on Post-Discount total' • '2' indicates 'Tax was calculated on Pre-Discount total'
TC50-0015	The Tax Treatment field is not being populated with one of	If provided, the Tax Treatment field must be populated with one of the valid data values (0, 1, 2, 3, 4),

	the valid data values (0, 1, 2, 3, 4). The Tax Treatment field provides receiver with details on how the tax is calculated. <u>Note:</u> This field is optional.	representing the prices provided on the invoice by the Merchant: • '0' indicates 'Net prices with tax calculated at line item level (NLL)' • '1' indicates 'Net prices with tax calculated at invoice level (NIL)' • '2' indicates 'Gross prices given with tax information provided at line item level (GLL)' • '3' indicates 'Gross prices given with tax information provided at invoice level (GIL)' • '4' indicates 'No tax applies (small Merchant) on the invoice for the transaction (NON)'
TC50-0016	The Discount Amount Signage field is not being populated with one of the valid data values ((space), C, D). The Discount Amount Signage specifies if the Invoice Level Discount Amount is a credit or debit value.	The Discount Amount Signage field must be populated with one of the valid data values: • 'D' or 'space' indicates a 'Debit (a charge on the invoice)' • 'C' indicates a 'Credit (a refund of discount on the invoice)' A zero value Discount Amount must have 'D' populated in this Discount Amount Signage field.
TC50-0017	The Freight/Shipping Amount Signage field is not being populated with one of the valid data values ((space), C, D). The Freight/Shipping Amount Signage field specifies if the Freight/Shipping Amount is a credit or debit value.	The Freight/Shipping Amount Signage field must be populated with one of the valid data values: • 'D' or 'space' indicates 'Debit (a charge on the invoice)' • 'C' indicates 'Credit (a refund of discount on the invoice)' A zero value Freight/Shipping Amount must have 'D' populated in this Freight/Shipping Amount Signage field.
TC50-0018	The Duty Amount Signage field is not being populated with one of the valid data values ((space), C, D). The Duty Amount Signage field specifies if the Duty Amount is a credit or debit value.	The Duty Amount Signage field must be populated with one of the valid data values: • 'D' or 'space' indicates 'Debit (a charge on the invoice)' • 'C' indicates 'Credit (a refund of discount on the invoice)' A zero value Duty Amount must have 'D' populated in this Duty Amount Signage field.
TC50-0019	The VAT/Tax Amount Signage field is not being populated with one of the valid data values ((space), C, D). The VAT/Tax Amount Signage field specifies if the	The VAT/Tax Amount Signage field must be populated with one of the valid data values: • 'D' or 'space' indicates 'Debit (a charge on the invoice)' • 'C' indicates 'Credit (a refund of discount on the invoice)'

	Freight/Shipping VAT/Tax is a credit or debit value.	A zero value VAT/Tax Amount must have 'D' populated in this VAT/Tax Amount Signage field.
TC50-1000	The Line-Item Detail Sequence Number field is not being populated sequentially in a transaction (e.g. 1, 2, 3, etc.). This field represents the number of each line item in the invoice.	The Line-Item Detail Sequence Number field must be populated sequentially (1, 2, 3, etc.). This field should start at '001' for the first line item and incrementing by 1 for each subsequent line item associated with this invoice. It must contain a number between 001 and 999.
TC50-1001	The Item Description field is missing/blank, null or being populated with zeros.	The Item Description field must be populated with a readable description of the item or service.
TC50-1002	The Product Code field is missing/blank, null, or being populated with zeros.	The Product Code field must be populated with a unique product code associated to the item or service. The Product Code can be: • Merchant's product code • Manufacturer's product code • Buyer's product code This field must always be populated for every line item.
TC50-1003	The Unit of Measure field is missing/blank, null, or being populated with zeros.	The Unit of Measure field must be populated with a readable Unit of Measure code.
TC50-1004	The Line-Item Total amount must be equal to unit cost multiplied by quantity minus discount amount per line item.	Line-Item Total Amount must reflect the following calculation: (Quantity x Unit Cost) - Line-Item Discount. These inputs (Quantity, Unit Cost, and Discount per line item) must be accurate and used appropriately to calculate the accurate Line-Item Total using the above calculation.
TC50-1005	The Line-Item Detail Indicator field is not being populated with one of the valid data values (0, 1, 2, 3, 4, 5).	The Line-Item Detail Indicator field must be populated with one of the valid data values: • '0' or '1' indicates 'Normal line item' • '2' or '3' indicates 'Credit Line Item' • '4' or '5' indicates 'Payment line item'
TC50-1006	For the Line-Item Detail Indicator field, every line is not an even value (except the final line which must be odd).	For the Line-Item Detail Indicator field, every line must be an even value, except final line which must be odd. The Line-Item Detail Indicator field must be populated with a 0 or 1, 2 or 3, 4 or 5. Each transaction has even values with one odd value. Odd-numbered for the last line on the invoice, otherwise even-numbered: • '0' or '1' indicates 'Normal line item' • '2' or '3' indicates 'Credit Line Item' • '4' or '5' indicates 'Payment line item'

TC50-1007	The Line Item Level Discount Treatment Code field is not being populated with one of the valid data values (0, 1, 2). This field identifies if a discount was provided for this line item.	The Line-Item Level Discount Treatment Code must be populated with one of the valid date values: • '0' indicates 'No discounts apply for the line item' • '1' indicates 'Tax was calculated on Post- Discount totals' • '2' indicates 'Tax was calculated on Pre-Discount totals'
TC50-2001	The Line-Item Description is missing/blank or effectively blank.	The Line-Item Description field must be populated and with a readable, unique description of the item or service.
TC50-2002	The line-item description is the same or nearly the same as the merchant name.	The line-item description needs to be a unique and accurate description associated to the item or service. It cannot be populated generally, according to or using the merchant's name.
TC50-2003	The Line-Item Product Code field is not the same as the Cardholder Product ID (e.g., 'S', 'K', 'S1'), as indicated in the transaction.	The Line-Item Product Code field must be populated with the same data value as the Cardholder Product ID (e.g., 'S', 'K', 'S1'), as indicated in the transaction.
TC50-2004	The Line-Item Description is generic and effectively provides no detail on what was purchased.	The Line-Item Description needs to be a unique and accurate description associated to the item or service.
TC50-2005	The Line-Item Description field is populated with just a single character.	The Line-Item Description needs to be a unique and accurate description associated to the item or service.
TC50-2006	The Line-Item Description is completely contained within the merchant's name.	The Line-Item Description needs to be a unique and accurate description associated to the item or service. It cannot be populated generally, according to or using the merchant's name.

Level II (L2) CEDP Data Errors:

Error Code	What does this mean?	How can I become compliant?
CS-2001	The Local Tax does not vary in amount, regardless of differing total amounts charged for transactions (Source Amounts).	Local Tax should vary, according to the total amount charged across transactions. It should not remain the same value. Investigate why Local Tax calculations are unvaried across transactions.
CS-2002	Local Tax has an unrealistic static rate (constant) behavior. For example, a 5% static state tax could be being applied for all states.	Local Tax should vary, according to the tax rate of the state or locality where the merchant is located. A static rate should not be applied for all transactions, regardless of state/locality. Investigate why Local Tax calculations are using a static rate (constant) across transactions.