Chapter 4

Encrypted Payload Data Structures

Cardholder Information

Field	Description
primaryAccountNumber	(Required) Primary account number (PAN) of the card that is being tokenized.
	Format: String; max length 19 characters.
cvv2	(Optional) Value associated with the PAN on the card.
	Format: String; max length 4 characters.
name	(Optional) Full name on the Visa card associated with the enrolled payment instrument.
	Format: String; max length 256 characters.

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Field	Description
expirationDate	(Conditional) The expiration date of the payment instrument.
	This is a required field for Secure Remote Commerce and in the following APIs:
	Approve Provisioning
	Token Create Notification
	Format: An Expiration Date structure.
billingAddress	(Conditional) Billing address associated with the payment instrument. It is required for Secure Remote Commerce.
	Format: An Address structure.
highValueCustomer	(Optional) If available, it will be provided in Check Eligibility.
	Format: It is one of the following values:
	true— Indicates that the customer is high value.
	false— Indicates that the customer is not high value.
riskAssessmentScore	(Optional) Advanced Authorization (AA) Risk Score is generated by VisaNet on the last payment transaction for the PAN. Values are 0 through 99, with a higher value indicating higher risk. This value is calculated by the AA Risk engine, based on the PAN's transaction pattern (long-term and short-term). If available, it will be provided in Check Eligibility.
	Format: String; max length 2 characters.

Address

This structure is used by several APIs.

Field	Description
line1	(Optional) First line associated with the address.
	Format: String; alphanumeric; UTF-8, white space, comma (,), underscore (_), hashtag (#), colon (:), forward slash (/), period (.), single quote ('), asterisk (*), and hyphens (-) are allowed; max length 64 characters.
line2	(Optional) Second line associated with the address.
	Format: String; alphanumeric; UTF-8, white space, comma (,), underscore (_), hashtag (#), colon (:), forward slash (/), period (.), single quote ('), asterisk (*), and hyphens (-) are allowed; max length 64 characters.

Field	Description
city	(Optional) City associated with the address.
	Format: String; alphanumeric; UTF-8, white space, carat (^), period (.), single quote ('), asterisk (*), and hyphens (-) are allowed; max length 32 characters.
state	(Optional) State or province code associated with the address.
	Example: NY
	Format: String; ISO 3166-2; max length 2 characters.
postalCode	(Optional) The postal code associated with the address.
	Format: String; alphanumeric, valid for the country; whitespace and hyphens (-) are allowed; max length 10 characters.
country	(Optional) Code for a country; default is US.
	Example: US
	Format: String; ISO 3166-1 alpha-2; max length 2 characters.

Expiration Date

This structure is used by several APIs.

Field	Description
month	(Required) The month upon which the payment instrument is set to expire.
	Example: "month": "09"
	Format: String; numeric; length 2 digits.
year	(Required) The year upon which the payment instrument is set to expire.
	Example: "year": "2024"
	Format: String; numeric; length 4 digits.

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Token Information

Field	Description
token	(Conditional) The account number associated with a token. This is a required field in the following APIs:
	Token Create Notification
	Token Notification
	Format: String; max length 19 characters.
tokenType	(Conditional) This is a required field in the following APIs:
	Approve Provisioning
	Approve Provisioning Stand-In Notification
	Token Create Notification
	Format: It is one of the following values:
	SECURE_ELEMENT
	• HCE
	• CARD_ON_FILE
	• ECOMMERCE
	• QRC
tokenStatus	(Conditional) This is a required field in the following APIs:
	Token Create Notification
	Token Notification
	Format: It is one of the following values:
	• ACTIVE
	• INACTIVE
	• SUSPENDED
	• DEACTIVATED
tokenExpirationDate	(Conditional) The date upon which the token is set to expire. This field is required in the Token Create Notification API. It is provided in the Token Notification API request if available.
	Format: An Expiration Date structure.

Field	Description
tokenAssuranceMethod	(Optional) Method of Issuer ID&V that has taken place at time of provisioning, device binding, or cardholder initiated verification. It is one of the following values:
	00 ID&V Not Performed
	10 Card Issuer Account Verification
	11 Card Issuer Interactive Cardholder Verification - 1 Factor
	• 12 Card Issuer Interactive Cardholder Verification - 2 Factor
	 13 Card Issuer Risk Oriented Non-Interactive Cardholder Authentication
	• 14 Card Issuer Asserted Authentication
	Format: String; max length 2 characters.
numberOfActiveTokensForPAN	(Optional) Number of device tokens that are currently active for this PAN.
	Format: Integer; max length 4 digits.
numberOfInactiveTokensForPAN	(Optional) Number of device tokens that are currently inactive (device tokens have not been activated) for this PAN.
	Format: Integer; max length 4 digits.
numberOfSuspendedTokensForPAN	(Optional) Number of device tokens that were activated, but are suspended for payments for this PAN.
	Format: Integer; max length 4 digits.
tokenActivationDate	(Optional) System date/timestamp, in GMT, of token activation into an active state. For an inactive state, this field is left empty and populated only when a token transitions to an active state. If a token is suspended, this field is populated with the new date/ timestamp of when an active state resumes.
	Format: String; yyyy-MM-ddTHH:mm:ss.SSSZ.
tokenDeactivationDate	(Optional) Date of token deactivation.
	Format: String; YYYY-MM-DD.
lastTokenStatusUpdatedTime	(Optional) Date/timestamp, in GMT, of the last token status update.
	Format: String; yyyy-MM-ddTHH:mm:ss.SSSZ.
originalToken	(Conditional) Token account number. This field is populated when performing token-for-token provisioning only.
	Format: String; max length 19 characters.
originalTokenRequestorID	(Required) Unique ID assigned to the initiator of the token request. This field is populated when performing token-for-token provisioning only.
	Format: Numeric; max length 11 digits.

Field	Description
originalTokenReferenceID	(Conditional) Unique ID for the token associated with the PAN. This ID can be used in lieu of the token for subsequent calls, such as life cycle events. This field is populated when performing token-fortoken provisioning only.
	Format: String; max length 32 characters.
originalTokenType	(Conditional) Token type of the original token. This field is populated only when performing token for token provisioning and can be used only in the following APIs:
	Approve Provisioning
	Approve Provisioning Stand-In Notification
	Token Create Notification
	Format: It is one of the following values:
	SECURE_ELEMENT
	• HCE
	• CARD_ON_FILE
	• ECOMMERCE
	• QRC
	PSEUDO_ACCOUNT
originaltokenAssuranceMethod	(Conditional) Original token assurance method. This field is populated when performing token-for-token provisioning only. It is one of the following values:
	00 ID&V Not Performed
	• 10 Card Issuer Account Verification
	• 11 Card Issuer Interactive Cardholder Verification - 1 Factor
	• 12 Card Issuer Interactive Cardholder Verification - 2 Factor
	13 Card Issuer Risk Oriented Non-Interactive Cardholder Authentication
	14 Card Issuer Asserted Authentication
	Format: String; max length 2 characters.

Field	Description
tokenRequestorName	(Conditional) Token requester name. Populated when available in the following APIs:
	Device Token Binding Request
	Get Cardholder Verification Methods
	Send Passcode
	Token Notification
	Format: String; max length 100 characters.
autoFillIndicator	(Conditional) Indicates whether the token is for an autofill use case. This is a required field in the following APIs:
	Approve Provisioning
	Approve Provisioning Stand-In Notification
	Token Create Notification
	Format: It is one of the following values:
	• true — Indicates that the token (e-Commerce Enabler, or Cardon-File) is for an autofill use case.
	• false — Indicates that the token is not for an autofill use case.

Risk Information

Field	Description
walletProviderRiskAssessment	Wallet provider risk assessment. If the DWP sends the value, Visa will send it to the issuer.
	Format: It is one of the following values:
	0 — Unconditionally approved.
	• 1— Conditionally approved with further consumer verification.
	• 2— Not approved
walletProviderRiskAssessment Version	If the DWP sends this information, Visa will send it to the issuer. May contain separators to indicate major and minor components, for example, periods, hyphens, slashes, and other similar characters.
	Format: String; max length 10 characters.

Field	Description
walletProviderAccountScore	The wallet provider account score. Score value is between 1 and 5, indicating the confidence level of the account, where 5 indicates the most confidence on the account.
	Example: 5
	Format: String; max length 2 characters.
walletProviderDeviceScore	The wallet provider device score. Score value is between1 and 5, indicating the confidence level of the device, where5 indicates the most confidence.
	Example: 5
	Format: String; max length 2 characters.
walletProviderPhoneScore	The wallet provider phone score. Score value is between1 and 5, indicating the confidence level of the phone number, where5 indicates the most confidence.
	Example: 5
	Format: String; max length 2 characters.
walletProviderReasonCodes	Wallet provider reason codes, in a comma-separated format.
	Format: String; max length 100 characters.
deviceBluetoothMac	MAC address for Bluetooth.
	Format: String; max length 24 characters.
deviceIMEI	Hardware ID of the device.
	Format: String; max length 24 characters.
deviceSerialNumber	Serial number of the mobile device.
	Format: String; max length 24 characters.
deviceTimeZone	Time-zone abbreviation.
	Example: PDT
	Format: String; max length 5 characters.
deviceTimeZoneSetting	Device time-zone setting.
	Format: It is one of the following values:
	NETWORK_SET
	• CONSUMER_SET
osID	OS ID to allow building velocity and risk rules.
	Format: String; max length 24 characters.
simSerialNumber	SIM serial number of the mobile device.
	Format: String; max length 24 characters.

Field	Description
deviceLostMode	Number of days. Values are up to 9999 number of days.
	Example: 9999
	Format: String; max length 4 characters.
daysSinceConsumerDataLast AccountChange	Number of days since account settings were changed (in case of a password update). If the number of days exceeds 9999, it will stay at 9999.
	Example: "9999"
	Format: String; max length 4 characters.
accountHolderName	Account-holder's name.
	Format: String; max length 64 characters.
walletProviderPANAge	Length of time (in days) that a PAN has been on file for a user.
	Example: "9999"
	Format: String; max length 4 characters.
walletAccountHolderCardNameMatch	Name of the account-holder and name of cardholder matched.
	Format: It is one of the following values:
	Y— Indicates the two names match.
	N— Indicates the two names do not match.
accountToDeviceBindingAge	Number of days this device has been used by this account. If the number of days exceeds 9999, it will stay at 9999.
	Example: 9999
	Format: String; max length 4 characters.
userAccountAge	Number of days since an account for this user has existed (how long have you known this user?).
	Values are 0 through 9999.
	Example: "9999"
	Format: String; max length 4 characters.
walletAccountAge	Number of days since the user created a wallet account or started using a wallet. If the number of days exceeds 256, it will stay at 256.
	Example: "256"
	Format: String; max length 4 characters.
walletAccountEmailAddressAge	Number of days since the email address was associated with the account. If the number of days exceeds 999, it will stay at 999.
	Example: "999"
	Format: String; max length 4 characters.

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Field	Description
provisioningAttemptsOnDevice In24Hours	Number of provisioning attempts on this device in the past 24 hours. If the number of attempts exceeds 99, it will stay at 99.
	Example: "99"
	Format: String; max length 2 characters.
distinctCardholderNames	Number of distinct cardholder names used in provisioning from this device.
	Example: "99"
	Format: String; max length 2 characters.
deviceCountry	Country of device at time of provisioning.
	Example: US
	Format: String; ISO 3166-1, alpha-2; max length 2 characters.
walletAccountCountry	Country of account-holder.
	Example: US
	Format: String; ISO 3166-1, alpha-2; max length 2 characters.
suspendedCardsInAccount	Number of cards suspended in the account. If the number of days exceeds 99, it will stay at 99.
	Example: "99"
	Format: String; max length 2 characters.
daysSinceLastAccountActivity	Number of days since the last activity on account. If the number of days exceeds 9999, it will stay at 9999.
	Example: "9999"
	Format: String; max length 4 characters.
numberOfTransactionsInLast 12months	Number of transactions on this account in the last 12 months. If the number of transaction exceeds 9999, it will stay at 9999.
	Example: "9999"
	Format: String; max length 4 characters.
numberOfActiveTokens	Number of active tokens on this account. If the number of tokens exceeds 99, it will stay at 99
	Example: "99"
	Format: String; max length 2 characters.
deviceWithActiveTokens	Number of devices for this user with the same token. If the number of tokens exceeds 99, it will stay at 99
	Example: "99"
	Format: String; max length 2 characters.

Field	Description
activeTokensOnAllDeviceFor Account	Number of active tokens for this user, across all devices. If the number of tokens exceeds 9999, it will stay at 9999.
	Example: "9999"
	Format: String; max length 4 characters.
visaTokenScore	Value indicating the degree of risk associated with the token. Numeric value is 00 through 99. A value of 00 indicates no score provided by Visa.
	Format: String; max length 2 characters.
visaTokenDecisioning	Results from the token provisioning service.
	Format: It is one of the following values:
	00 – Provision and activate
	05 – Do not provision
	• 85 – Provision in inactive state (requires further consumer authentication prior to activation)
riskAssessmentScore	Values are 0 through 99. A higher value indicates a higher risk. This is calculated by the AA Risk Engine, based on the PAN's transaction pattern (long term and short term).
	Format: String; max length 2 characters.
issuerSpecialConditionCodes	Supported for issuers participating in 0100 TAR. The issuer can send values for this element in the 0100 TAR response.
	• If the issuer sends a value in the 0100 TAR, it will be sent in this element of the Get CVM.
	If no value is sent in 0100 TAR or if the issuer does not participate in TAR, this element will not be present.
	Format: String; max length 100 characters.

Device Information

Field	Description
deviceID	For Secure Element (SE) wallet providers, this value will be the SE ID in hex binary characters transformed to a 48-character string.
	For Host Card Emulation (HCE) wallet providers, this field will be the Device ID as determined by the digital wallet provider (DWP). All alphanumeric and special characters are allowed for HCE DWPs.
	Secure Element (SE) ID represents the device ID.
	• For SE DWPs, this value will be the SE ID in hex binary characters transformed to a 48-character string.
	For CBP DWPs, this field will be the device ID as determined by the DWP. All alphanumeric and special characters are allowed for CBP DWPs.
	For Card-on-File (COF) wallets, this value will not be present.
	For the initial Check Eligibility request on PAN enrollment, this value may not be available, however Visa will send this value if it is available.
	Format: String; max length 48 characters.
deviceLanguageCode	This value is any ISO 639 Version 3 Language Code, for example, eng (English). This language code will be used by the issuer and Visa to retrieve the Terms and Conditions (T&C). If T&Cs are not found for the Language Code in the request, the T&Cs will return the default :anguage Code of eng (English).
	Format: String; ISO-639 Version 3 Language Code, max length 3 characters.

Field	Description
deviceType	Device type.
	Note: The deviceType field corresponds to Field 125, Usage 2 – Dataset ID 01 - Token Device, which is described in the VisaNet Authorization-Only Online Messages – Technical Specifications.
	Format: It is one of the following values:
	• UNKNOWN
	• MOBILE_PHONE, which is equivalent to value 01 in Field 125
	• TABLET, which is equivalent to value 02 in Field 125
	• WATCH
	• MOBILEPHONE_OR_TABLET, which is equivalent to value 04 in Field 125
	• PC
	HOUSEHOLD_DEVICE
	WEARABLE_DEVICE
	AUTOMOBILE_DEVICE
deviceName	A readable name for the device. Ideally, the customer enters this name. It can be used to identify the device in customer support calls.
	Example: My Work Phone
	Format: String; Base64URL-encoded; UTF-8; max length 128 characters.
deviceNumber	Device number.
	Format: String; max length 13 characters.
osType	Type of operating system.
	Format: It is one of the following values:
	• ANDROID
	• IOS
	• WINDOWS
	BLACKBERRY
	• TIZEN
	• OTHER
osVersion	Version of the operating system running on the device.
	Example: 4 . 4 . 4
	Format: String; max length 32 characters.

Field	Description
osBuildID	Operating system build identifier.
	Example: KTU84M
	Format: String; max length 32 characters.
deviceIDType	Attribute indicating the source of the Device ID value.
	Example: The source for Device ID (deviceID) could be SecureElement, TEE, or Derived
	Format: String; max length 32 characters.
deviceManufacturer	Manufacturer of the device.
	Example: Samsung
	Format: String; max length 32 characters.
deviceBrand	Brand name of the device.
	Example: Galaxy
	Format: String; max length 32 characters.
deviceModel	model of the device.
	Example: SGH-T999
	Format: String; max length 32 characters.
deviceLocation	Obfuscated geographic location of the device. Initially, when provisioned, this contains the general location of the device. Information will be supplied with latitude/longitude rounded to the nearest whole digit.
	Example: +37/-121
	Format: String; max length 25 characters.
deviceIndex	The index number from Visa where the deviceID is stored. This is required for token device binding.
	Format: Integer; max length 2 digits.
deviceIPAddressV4	(Optional) The IP address of the device at the time of the provisioning request, with the value represented in 255.255.255.255 format. An octet (255) may be 1–3 digits in length but cannot contain any leading zeros.
	Format: String; max length 15 characters.
locationSource	Source used to identify consumer location.
	Format: It is one of the following values:
	• WIFI
	• CELLULAR
	• GPS
	• OTHER

Field	Description
tokenProtectionMethod	Method of token protection.
	Format: It is one of the following values:
	• SOFTWARE
	• TRUSTED_EXECUTION_ENVIRONMENT
	• SECURE_ELEMENT
	• CLOUD
originalDeviceID	Device ID from the original provision. This field is populated only when performing token-for-token provisioning and can be used only in the following APIs:
	Approve Provisioning
	Approve Provisioning Stand-In Notification
	Token Create Notification
	Format: String; max length 48 characters.
originalDeviceType	Device type from the original provision. This field is populated only when performing token-for-token provisioning and can be used only in the following APIs:
	Approve Provisioning
	Approve Provisioning Stand-In Notification
	Token Create Notification
	Format: It is one of the following values:
	• UNKNOWN
	MOBILE_PHONE
	• TABLET
	• WATCH
	MOBILEPHONE_OR_TABLET
	• PC
	HOUSEHOLD_DEVICE
	• WEARABLE_DEVICE
	AUTOMOBILE_DEVICE