Category			Http Status Response		Respo	onse   Operation element			Log
Action	Test #	Result	Code Reason Phrase	Response Body contains	result		error.message	error.field	Type Message
API REST Framework									
Find URL	ENV	Any of the following conditions:  • API Context not found  • API Context version not found  • Resource not found	404 Not Found	{   "timestamp": 1450289685875,   "status": 404,   "error": "Not Found",   "message": "No message available",   "path": "/user/2/accountholders/2/cards" }	N/A	N/A	N/A	N/A	
	11	"Content Type" is defined in an invalid value format	415 Unsupported Media Type	N/A	N/A	N/A	N/A	N/A	
	12	"Accept" is defined in an invalid value format	406 Not Acceptable	N/A	N/A	N/A	N/A	N/A	
API metadata validation	13	HTTP Method does not exist for Resource • applies to [GET, POST, PUT, PATCH, DELETE]	405 Method Not Allowed	Method Not Allowed	N/A	N/A	N/A	N/A	
	14	"Content Type" is in valid format but value is not application/json	415 Unsupported Media Type	N/A	N/A	N/A	N/A	N/A	
		"Accept" is in valid format but value is not application/json	406 Not Acceptable	N/A	N/A	N/A	N/A	N/A	
Exception Handling									
Any		This line item represents a catch-all error scenario for any condition that we did not plan for.	500 Internal Server Error	<ul><li>Operation - Result</li><li>Operation - Errors</li><li>Operation with timestamps</li></ul>	ERROR		An unidentified exception has occurred.	(empty)	*Should always be reported to development.
unhandled/unexpected error condition		This line item represents the catching for any zuul exceptions that are created	500 Internal Server Error	<ul><li>Operation - Result</li><li>Operation - Errors</li><li>Operation with timestamps</li></ul>	ERROR	1025	An unidentified exception has occurred.	(empty)	*Should always be reported to development.
	ENV	Database: dvh is unavailable or creates an unhandled exception condition	500 Internal Server Error	<ul><li> Operation - Result</li><li> Operation - Errors</li><li> Operation with timestamps</li></ul>	ERROR	1001	An unidentified exception has occurred.	(empty)	*DevOps should be monitoring for.
	ENV	Service: userassociations is unavailable	500 Internal Server Error	Operation - Result     Operation - Errors     Operation with timestamps	ERROR		An unidentified exception has occurred.	(empty)	*DevOps should be monitoring for.
	ENV	Service: user-accounts is unavailable	500 Internal Server Error	<ul><li>Operation - Result</li><li>Operation - Errors</li><li>Operation with timestamps</li></ul>	ERROR		An unidentified exception has occurred.	(empty)	*DevOps should be monitoring for.
Required Service or data	OOS	Service: accountholder-features is unavailable	500 Internal Server Error	<ul><li>Operation - Result</li><li>Operation - Errors</li><li>Operation with timestamps</li></ul>	ERROR		An unidentified exception has occurred.	(empty)	*DevOps should be monitoring for.
persistance unavailable		Internal API: /cs/api/paymentmethods/creditdebitcards is [communication exception, 5xx]	500 Internal Server Error	<ul><li> Operation - Result</li><li> Operation - Errors</li><li> Operation with timestamps</li></ul>	ERROR		An unidentified exception has occurred.	(empty)	*DevOps should be monitoring for.
		Internal API: /cs/api/accountloadorders/creditdebitcards is [communication exception, 5xx]	500 Internal Server Error	<ul> <li>Operation - Result</li> <li>Operation - Errors</li> <li>Operation with timestamps</li> </ul>	ERROR		An unidentified exception has occurred.	(empty)	*DevOps should be monitoring for.
	ENV	Cloudinary service is unavailable	500 Internal Server Error	<ul><li> Operation - Result</li><li> Operation - Errors</li><li> Operation with timestamps</li></ul>	ERROR		An unidentified exception has occurred.	(empty)	*DevOps should be monitoring for.

	ENV	Internal API: /cs/api/paymentmethods/creditdebitcards is returning 4xx series responses we did not explicitly handle or any other unexpected format in	500	nternal Server Error	<ul><li> Operation - Result</li><li> Operation - Errors</li><li> Operation with timestamps</li></ul>	ERROR		An unidentified exception has occurred.	(empty)	*DevOps should be monitoring for.
	ENV	responses Internal API:	500 II	nternal Server Error	Operation - Result	ERROR	1021	An unidentified exception has	(empty)	*DevOps should be
Required service is available but not producing expected result		/cs/api/accountloadorders/creditdebitcards is 4xx series responses we did not explicitly handle or any other unexpected format in responses			<ul><li>Operation - Errors</li><li>Operation with timestamps</li></ul>			occurred.		monitoring for.
	ENV	ICP services are failing to upload/request images from cloudinary even though service is available	500 1	nternal Server Error	Operation - Result     Operation - Errors     Operation with timestamps	ERROR		An unidentified exception has occurred.	(empty)	*DevOps should be monitoring for.
Header requirements met d	and reso	lution where required			•					
Accept-Language		Accept-Language header is optional, but if included must meet valid format:  • invalid format for Language Tag {either region or sub-region}  • invalid length for Language Tag {either region or sub-region(8chars)}  • invalid format for "qvalue"	400 E	ad Request	<ul> <li>Operation - Result</li> <li>Operation - Errors</li> <li>Operation with timestamps</li> </ul>	ERROR		Request header Accept- Language is not in the expected format.	(empty)	
Request - Properly formatt									T. T	
URI parameter validation		A URI parameter is of an invalid data validation type  *Note: the purpose of this is to only validate that the data will not cause exceptions to additional data requests from services or data persistence	404   N	lot Found	<ul> <li>Operation - Result</li> <li>Operation - Errors</li> <li>Operation with timestamps</li> </ul>	ERROR	1002	Resource URI parameter is unable to be processed.	(empty)	
Request Body malformed		Request Content Body malformed and does not represent proper JSON (specified Content Type); also includes  • Field value is not of the type assigned (ex. "numberField": abc)	400 E	ad Request	<ul> <li>Operation - Result</li> <li>Operation - Errors</li> <li>Operation with timestamps</li> </ul>	ERROR		Request body is malformed or value for a field is of the wrong data type.	(empty)	
URL Resolution for dynamic									I	
API Context Header fields do not resolve to known values		API Context Header value is of proper form but does not resolve; examples are: - userContextId does not exist	404 N	lot Found	<ul><li>Operation - Result</li><li>Operation - Errors</li><li>Operation with timestamps</li></ul>	ERROR		(See "Validation Error Codes" Request Header section)	NULL	
		Query parameters are included when URL does not support them for the selected action.	400 E	ad Request	<ul><li> Operation - Result</li><li> Operation - Errors</li><li> Operation with timestamps</li></ul>	ERROR		URL does not support query parameters.	NULL	
URL Query Parameters support		Query Parameter Key is unidentifiable or uknown; this could be from  • Query parameter resolves to an unknown parameter  • This would include query keys that have incorrect casing	400 E	ad Request	<ul> <li>Operation - Result</li> <li>Operation - Errors</li> <li>Operation with timestamps</li> </ul>	ERROR		URL query parameter(s) are not able to be identified.	NULL	

	53	Query Parameter Key is identifiable but the value	400	Bad Request	Operation - Result	ERROR	1012	URL Query paramenter is empty.	NULL
		assigned to the parameter is empty.		·	Operation - Errors				
					Operation with timestamps				
	54	Query Parameter Key is identifiable but the value assigned to the parameter is not of the proper datatype; this could be from  • Query parameter is equates to a numerical value but alpha characters are passed or any equivalent as specified by the Query Parementer Key Type Validation	400	Bad Request	<ul> <li>Operation - Result</li> <li>Operation - Errors</li> <li>Operation with timestamps</li> </ul>	ERROR	•	(See "Validation Error Codes" Non-Body Validation section)	{parameter key name}
	55	Query Parameter Key is identifiable but the value assigned does not have a match in the specified enumeration list  • This error is expected to only apply to parameter key tuypes that are validated as enum_*	400	Bad Request	<ul> <li>Operation - Result</li> <li>Operation - Errors</li> <li>Operation with timestamps</li> </ul>	ERROR	2000	URL query parameter value does not match specified enumeration values.	{parameter key name}
URL Query Parameters validation	56	Query Parameter Key is identifiable but is being used in conjunction with another query parameter key that is not allowed; this could be from • example using a field defined as 'match_Date8601' in combination with a field defined as 'minRange_Date8601'	400	Bad Request	<ul> <li>Operation - Result</li> <li>Operation - Errors</li> <li>Operation with timestamps</li> </ul>	ERROR	1008	URL query parameter combination is not allowed.	{parameter key name #1}, {parameter key name #2}
	57	Query Parameter Key is identifiable but it is used in the query parameters more times than we allow • this would also include situations where 'match_Date8601' was used with another 'match_Date8601', unless explicitly stated that this parameter can be used multiple times	400	Bad Request	<ul> <li>Operation - Result</li> <li>Operation - Errors</li> <li>Operation with timestamps</li> </ul>	ERROR	1007	URL query parameter is included more times than is allowed.	{parameter key name}
	58	Query Parameter Key is identifiable but is missing another dependent query parameter key; this could be from • example: requesting a 'page' with including a 'pageSize'	400	Bad Request	<ul> <li>Operation - Result</li> <li>Operation - Errors</li> <li>Operation with timestamps</li> </ul>	ERROR	1009	URL query parameter is missing required accompanying parameter.	{parameter key name}
Authorizations									
	61	Required userAssociation does not exist in user_assocation table		Not Found	<ul><li> Operation - Result</li><li> Operation - Errors</li><li> Operation with timestamps</li></ul>	ERROR		between the user and the account holder is missing.	NULL
user associations	62	Required userAssocationStatus is not ACTIVE	403	Forbidden	<ul><li> Operation - Result</li><li> Operation - Errors</li><li> Operation with timestamps</li></ul>	ERROR	1015	The required assocation between the user and account holder must have a userAssocationStatus of ACTIVE.	NULL
	63	Required accountHolderAssocationStatus is not ACTIVE		Forbidden	<ul> <li>Operation - Result</li> <li>Operation - Errors</li> <li>Operation with timestamps</li> </ul>	ERROR		between the user and account holder must have an accountHolderAssocationStatus of ACTIVE.	NULL
feature state check	oos	Feature is not enabled for URL and REST action	403	Forbidden	<ul><li> Operation - Result</li><li> Operation - Errors</li><li> Operation with timestamps</li></ul>	ERROR	1016	A feature for the request must be enabled.	NULL
Request Body Validations									

	<del>,</del>							<u>,                                      </u>
71	Request fails Data Validations (3xxx)	400	Bad Request	Operation - Result	ERROR	(See "Validation Error	(See "Validation Error Codes"	{member field
				Operation - Errors		Codes" Request Body	Request Body section)	name that
	*Note: this includes situations where a required			<ul> <li>Operation with timestamps</li> </ul>		section)		failed
	field was not included in the request.							validation in
	ĺ			*Note: possibility for multiple errors to be				a.b.c notation}
72	Paguest fails Pusiness Pule validations (Avvv)	422	Unprocessable Entity		EDDOD	(Soo "Validation Error	(Saa "Validation Error Codos"	{member field
12	Request fails business rule validations (4xxx)	422	Offprocessable Entity	·	EKKOK	·		1 1
				•			Business Rules section)	name that
				Operation with timestamps		section)		failed
								validation in
								a.b.c notation}
	In the second second		I					
81		404	Not Found	•	ERROR			{value}
	within the specified API context.						found.	
				<ul> <li>Operation with timestamps</li> </ul>				
	*Note: this is intentionally listed after API context							
	because that helps determine if the resource value							
	is found							
91	POST - successful	201	OK	Noun body	ОК	0	ОК	(empty)
				Operation - Result				
	Additions Error Matrix Test Notes:			Operation - Errors				
92	[GET, PUT, PATCH, DELETE] - successful	200	ОК	Noun body	ОК	0	OK	(empty)
	Additions Error Matrix Test Notes			•				
				•				
				• Operation with timestamps				
	• [PUT, PATCH] Request body contains extra fields							
	*Alata di 'a da 'a da da di a a a a a a a a a a a a a a a							
	- I							
	array should exist as an empty array							
	DATOL I D		014		01/		011	
93	PAICH only - Request body is empty	200	UK	<b>■</b>	OK	0	UK	(empty)
				<ul> <li>Operation - Result</li> </ul>				
	*Note: this will succeed but not changes will occur			<ul><li> Operation - Errors</li><li> Operation with timestamps</li></ul>				
	72 81	*Note: this includes situations where a required field was not included in the request.  72 Request fails Business Rule validations (4xxx)  81 Specified resource parameter cannot be found within the specified API context.  *Note: this is intentionally listed after API context because that helps determine if the resource value is found  91 POST - successful  Additions Error Matrix Test Notes:  • Request body contains extra fields  92 [GET, PUT, PATCH, DELETE] - successful  Additions Error Matrix Test Notes:  • [GET, DELETE] No "Content Type" is provided it will default to application/json  • [PUT, PATCH] Request body contains extra fields  *Note: this also includes the scenario where my resulting collection is empty, in that case the outer array should exist as an empty array	*Note: this includes situations where a required field was not included in the request.  72 Request fails Business Rule validations (4xxx)  422  81 Specified resource parameter cannot be found within the specified API context.  *Note: this is intentionally listed after API context because that helps determine if the resource value is found  91 POST - successful  Additions Error Matrix Test Notes:  • Request body contains extra fields  92 [GET, PUT, PATCH, DELETE] - successful  Additions Error Matrix Test Notes:  • [GET, DELETE] No "Content Type" is provided it will default to application/json  • [PUT, PATCH] Request body contains extra fields  *Note: this also includes the scenario where my resulting collection is empty, in that case the outer array should exist as an empty array	*Note: this includes situations where a required field was not included in the request.  72 Request fails Business Rule validations (4xxx)  81 Specified resource parameter cannot be found within the specified API context.  *Note: this is intentionally listed after API context because that helps determine if the resource value is found  91 POST - successful  Additions Error Matrix Test Notes:  • Request body contains extra fields  92 [GET, PUT, PATCH, DELETE] - successful  Additions Error Matrix Test Notes:  • [GET, DELETE] No "Content Type" is provided it will default to application/json  • [PUT, PATCH] Request body contains extra fields  *Note: this also includes the scenario where my resulting collection is empty, in that case the outer array should exist as an empty array	*Note: this includes situations where a required field was not included in the request.  *Note: possibility for multiple errors to be returned  *Note: possibility for multiple errors to be returned  *Note: possibility for multiple errors to be returned  *Operation - Result  *Operation - Errors  *Operation - Errors  *Operation with timestamps  *Note: this is intentionally listed after API context because that helps determine if the resource value is found  *Operation - Matrix Test Notes:  *Request body contains extra fields  *Operation - Errors  *Operation - Result  *Operation - Errors  *Ope	*Note: this includes situations where a required field was not included in the request.  *Note: Deparation with timestamps *Note: Deparation with timestamps *Note: Deparation with timestamps *Note: Deparation with timestamps *Note: This is intentionally listed after API context because that helps determine if the resource value is found  *Operation with timestamps  *Operation - Errors *Operation with timestamps  *Operation - Result *Operation - Errors *Operation with timestamps  *Operation - Result *Operation - Besult *Operation - Result *Operation - Errors *Operation - Result *Operation - Frors *Operation - Result *Operation - Frors *Operation - Frors *Operation - Result *Operation - Frors *Operation - Frors *Operation - Result *Operation - Result *Operation - Frors *Operation - Result *Operation - Frors *Operation - Result *Operation - Result *Operation - Frors *Operation - Result *Operation - Result *Operation - Frors *Operation - Result	*Note: this includes situations where a required field was not included in the request.  **Note: this includes situations where a required field was not included in the request.  **Pote: possibility for multiple errors to be returned  **Note: possibility for multiple errors to be returned  **Pote: possibility for multiple errors to be returned  **Operation - Result	*Note: this includes situations where a required field was not included in the request.  *Note: possibility for multiple errors to be returned  *Operation with timestamps  *Operation - Result -Operation - R

Non-Body \	/alidation		
_	Operation element	References	Log
Error Code	Error Message	Data Validation Types	Message
2000	(already used in api workflow errors)		
2001	URL Query Parameter is not a valid ISO 8601 date value.	Date8601	
2002	URL Query Parameter is not a valid number within the allowed range of	Number_MinInc1MaxInc200	
	[{minValue}{maxValue}].	Number_MinInc1MaxInc99999	
Request Bo	dy Validation	_	
-	Operation element	References	Log
Error Code	Error Message	Data Validation Types	Message
3000	A required request member field is improperly named, missing, or the field value is null.	(all fields)	
3001	Enumeration value is not found.	String#_Enumeration	
3002	String value has an allowed maximum length of {maxLength}.	String#	
		Pattern#_Numeric	
3003	String value has an allowed minimum length of {minLength}.	Pattern#Min#_Numeric	
3004	String value only allows characters [0,1,2,3,4,5,6,7,8,9].	Pattern#_Numeric	
3005	ID string is invalid.	String#ForInteger#_*	
3006	Number value is not within allowed range [{minValue}{maxValue}].	Currency*	
		Number_Min*#Max*#	
3007	String field cannot be empty.	String#_Trim_Nonempty	
3008	Image field cannot be empty.		
3009	Image field does not allow this file format.		
3010	Image field size has exceeded maximum {maxSize}		
Cross-field	validation errors		
3501	Money minor unit has exceeded allowed digits after separator {maxDigits}.	Currency	
3502	Enumeration value is not value for parent entity.	String#_Trim_Nonempty	
<b>Business Ru</b>	ule Validation		
Response	Operation element	References	Log
Error Code	Error Message	Data Validation Types	Message
4000	Reference ID value is not found.	*_SytemId	
4001	Uniqueness rule violation occurred.		
4002	Account configuration does not allow this type of transaction.		
4003	Source and destination for transaction must have the same currency.		
4004	Transaction amount outside allowed range [{minValue}{maxValue}].		
4005	Value is an invalid credit/debit card number.		
4006	Value is an invalid credit/debit card expiration date.		
4007	POST failed maximum member count {maxMembers}		
4008	Value is an invalid credit/debit card security code.		
Transaction	Error codes		
Response	Operation element	References	Log
Error Code	Error Message	Data Validation Types	Message
5200	Declined Credit/Debit card	*_SytemId	

Test # Codes	Description
OOF	Out of Scope
ENV	Environment Test - not run for build
NOT	Not testable without developer intervention

Noun Code	Noun
AH	accountholders{id}
AHAC	accountholders{id}-accounts
	accountholders{id}-accounts{id}
AHCD	accountholders{id}-cards
	accountholders{id}-cards{id}
AHFT	accountholders{id}-features
	accountholders{id}-features{code}
AHIM	accountholders{id}-images
	accountholders{id}-images{id}
AHTN	accountholders{id}-transactions
	accountholders{id}-accounts{id}transactions
BE	beneficiarys{id}
BEAC	beneficiarys{id}-accounts
	beneficiarys{id}-accounts{id}
BEIM	beneficiarys{id}-images
	beneficiarys{id}-images{id}
BETN	beneficiarys{id}-transactions
	beneficiarys{id}-accounts{id}transactions
IM	Images
	Images{id}
IS	issuers
	issuers{id}
PM	paymentmethods
PMCC	paymentmethods-creditDebitCard
	paymentmethods-creditDebitCard{id}
USAS	userassociations
	userassociations{id}