

pbVerify Affordability Service

Affordability Assessment Service Affordability RESTful Web Service Integration Guide

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5. Web Service

The web service supports:

- SOAP and REST via a HTTPS tunnel
- Output and input strings supported are Json and XML

The section bellow below covers the connections strings and the methods exposed via the service.

5.1 **SOAP**

SOAP Connection	URL
Test Server	https://webservices-uat.compuscan.co.za/AffordService?wsdl
Live Server	https://webservices.compuscan.co.za/AffordService?wsdl

Service definitions

Function	Parameter	Туре	Length	Notes	Return
Do Affordability	pUsername	String	35	Service user nameusername	TransReplyClass
	pPassword	String	35	Service user password	
	pOrigin	String	30	Name of originating application	-
	pOriginVersion	String	5	Set Version to originating application version	-
	pRequestVersion	String	5	Versions: 1.0 – Original 2.0 – Added Spouse	
	pOutputFormat	String	4	Specify the expected result type: • XML • json	
	pldNumber	String	13	Consumer's ID number on which the enquiry will be run	
	pName	String	25	First name of consumer	
	pSurname	String	25	Surname of consumer	-

	pGrossIncome Amount	Number	9	Consumer's Gross monthly income amount (as a whole rand value)	
	pNetIncomeAmo unt	Number	9	Consumer's Net monthly income amount (as a whole rand value)	
	pLivingExpenses	Number	9	Consumer's declared monthly living expenses(as a whole rand value excluding bureau expenses)can you add a space after expenses	
	pPrimarySpouse EnquiryId	Number	9	Add the Enquiry Id of the Spouse to link a new enquiry to.	
				Note: Only valid in Version 2.0	
TransReply Class	transactionCompl eted	Boolean	-	The parameter is used to indicate the result of the request: - True =	See type
				- False = not completed\error	
	errorCode	String	5	Error code. See error codes for more detail.	See type
	errorDescription	String	255	Error description. See error codes for more detail.	See type
	returnData	String	Variable	String containing request result based on pOutputFormat	See type

5.2 **REST**

REST Connection	URL
API Manager	https://www.veriid.com/API_Manager/login

Rest Service definitions – REST POST

Function	Parameter	Туре	Length	Notes	Return
REST POST: doAffordability	pUsername	String	35	Service user name username	TransReplyClass
	pPassword	String	35	Service user password	-
	pOrigin	String	30	Name of originating application	-
	pOriginVersion	String	5	Set Version to originating application version	
	pRequestVersion	String	5	Versions: 1.0 – Original	
				2.0 – Added Spouse	
	pOutputFormat	String	4	Specify the expected result type:	
				• XML • json	
	pldNumber	String	13	Consumer's ID number on which the enquiry will be run	-
	pName	String	25	First name of consumer	-
	pSurname	String	25	Surname of consumer	-
	pGrossIncomeA mount	Number	9	Consumer's Gross monthly income amount	
	pNetIncomeAmo unt	Number	9	Consumer's Net monthly income amount	
	pLivingExpenses	Number	9	Consumer's declared monthly living expenses	

				(excluding bureau expenses)	
	pPrimarySpouse EnquiryId	Number	9	Add the Enquiry Id of the Spouse to link a new enquiry to.	
				Note : Only valid in Version 2.0	
	Example URL: Will be provided				
Transaction Output	transactionCompl eted	Boolean	-	The parameter is used to indicate the result of the request:	See type
				- True = Successful	
				 False = not completed\error 	
	errorDescription	String	255	Error description. See error codes for more detail.	See type
	errorCode	String	5	Error code. See error codes for more detail.	See type
	returnData	String	Variable	String containing request result based on pOutputFormat	See type
	Important: The REST response pOutputFormatparar			nData result will be based on	the

Example - REST input

"pUsername":" Your Username", "pPassword":" Your Password", "pOrigin":"Chrome", "pOriginVersion":"1.0", "pRequestVersion":"1.0", "pOutputFormat":"XML", "pldNumber":"7408285107080", "pName":"John", "pSurname":"Doe", "pGrossIncomeAmount":"70000", "pNetIncomeAmount":"5500", "pLivingExpenses":"1500"

{

Example – REST output – error: Below is a json result string from a REST call. Note the *returnData* is set to XML as per the input request.

Example - Json Error Result

f
"transactionCompleted":false,can you add a space after :
"errorCode":"-205",
"errorDescription": "Invalid Username or Password or Service not activated for this branch."
}

Example - XML Error Result

<RESULTS> <TRANSACTION_COMPLETED>false</TRANSACTION_COMPLETED> <ERR_CODE>-205</ERR_CODE> <ERR_STRING>Invalid Username or Password or Service not activated for this branch.</ERR_STRING> </RESULTS>

6. Service Input Service Output

The matrix below defines the output for the service in the case of a successful service call. The output is supplied via the returnData parameter and can be of type json or XML depending on the value set via the input parameter pOutputFormat.

FIELD NAME	TYPE	LENGTH	DESCRIPTION
ID_NUMBER	String	13	ID number of consumer.
Name	String	25	First name of consumer.
Surname	String	25	Surname of consumer.
Expenses	Number	9	Consumer's non-credit expenses as provided.
Gross_Income_Amount	Number	9	Consumer's Gross monthly income amount as supplied.
Cal_Gross_Income_Amount	Number	9	Consumer's Gross monthly income as calculated.
Net_Income_Amount	Number	9	Consumer's Net monthly income amount as supplied.
Cal_Net_Income_Amount	Number	9	Consumer's Net monthly income as calculated.
GMIP_Value	Number	9	The GMIP (Gross Monthly Income) variables are used to calculate the Minimum_Expense and Disposable_Income when the pGrossIncomeAmount and pNetIncomeAmount parameters are not supplied in the request.
			The GMIP_Value is the predicted rand value of the user's gross income per month rounded to the nearest R10.
GMIP_Confidence_Level	String	24	An indication for the level of confidence the Income Predictor assigns to its prediction; it is dependent upon the depth of data that could be provided to the model. Valid measures are low, medium or high.
GMIP_Band	String	15	The band in which the predicted income falls (e.g. R4000 to <r6000).< td=""></r6000).<>

Output Definition

Bureau_Expenses	Number	9	The monthly repayable amount of all active credit agreements.
Calc_Living_Expenses	Number	9	An estimate of the consumers living expenses, based on the consumers derived data and disregarding any bureau expenses.
Calc_Expenses	Number	9	Total expenses of the consumer as a sum of the calculated living expenses and bureau expenses.
Disposable_Income	Number	9	Discretionary Income available after all expenses, bureau deductions and minimum living expenses have been deducted from the consumer's net income/calculated.
Enq_id	Number	9	The id of the affordability enquiry.
Primary_Spouse_Enq_id	Number	9	The id of the affordability primary spouse enquiry. Note : Only valid in Version 2.0

Note that in the case of a REST call, the *returnData* will contain escape characters for json and xml.

Example - Json output

{
 "ID_NUMBER": "8209147250087",
 "NAME": "JOHN",
 "SURNAME": "DOE",
 "EXPENSES": "3000",
 "Gross_Income_Amount": "10000",
 "Cal_Gross_Income_Amount": "10000",
 "Net_Income_Amount": "8000",
 "Cal_Net_Income_Amount": 9305,
 "GMIP_Value": "5500",
 "GMIP_Value": "5500",
 "GMIP_Confidence_Level": "High",
 "GMIP_Band": "R4,000 – R5,999",
 "Bureau_Expenses": 3695,
 "Calc_Living_Expenses": 3695,
 "Calc_Expense": "8041.00",
 "Disposable_Income": "1264.00",
 "Enq_id": 12170

Example - XML output

<results></results>
<transaction_completed>true</transaction_completed>
<ret_data></ret_data>
<root></root>
<id_number>8209147250087</id_number>
<name>JOHN</name>
<surname>DOE</surname>
<expenses>3000</expenses>
<gross amount="" income="">10000</gross>
<cal amount="" gross="" income="">10000</cal>
<net amount="" income="">8000</net>
<cal amount="" income="" net="">9305</cal>
<gmip value="">5500</gmip>
<gmip_confidence_level>High</gmip_confidence_level>
<gmip band="">R4.000 – R5.999</gmip>
<bureau_expenses>4346</bureau_expenses>
<calc_living_expenses>3695.00</calc_living_expenses>
<calc_expense>8041.00</calc_expense>
<disposable_income>1264.00</disposable_income>
<enq_id>12171</enq_id>

GMIP Bands

Monthly Income Bands
Unable To Determine GMIP
<r4,000< td=""></r4,000<>
R4,000 - R5,999
R6,000 - R7,999
R8,000 - R9,999
R10,000 - R14,999
R15,000 - R19,999
R20,000 - R24,999
R25,000 - R29,999
R30,000 - R39,999
R40,000 - R49,999
>=R50,000

Error Codes

Error codes will be returned via the TransReplyClass via the errorCode parameter

Codes	Server Error Codes
-201	Not all variables filled in.
-202	Invalid parameters.
-203	Invalid Request Output Format
-204	Error generating results
-205	Invalid Username or Password or Service not activated for this branch.
-206	Internal Error
-207	Invalid Id number supplied.
-208	Invalid income amount supplied. Only support income values up to 9 digits and no cent values.
-209	Cannot find a GMIP value for the supplied Id Number.
-210	Gross Income Amount is not a number.
-211	Net Income Amount is not a number.
-212	Expense Amount is not a number.
-213	Gross Income Amount cannot be negative.
-214	Net Income Amount cannot be negative.
-215	Expense Amount cannot be negative.
-216	Invalid Job Id.
-217	No results found for this ID.
-218	Primary Spouse already linked.
-219	Invalid Primary Spouse Job Id.
-999	Unknown error

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