Invideous Roku Library

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1   Classes

1.1   inv_Platform

1.1.1   Attributes

1.1.1.1   video

video as object	
Scope	instance
Type	inv_Video
Description	A reference to current playing video.

1.1.1.2   user

user as object	
Scope	instance
Type	inv_User
Description	A reference to currently logged-in platform user.

1.1.1.3   refferer

refferer as string	
Scope	instance
Type	string
Description	Used by the platform api calls. Need to be set by developer at start of the application.

1.1.2 Methods

1.1.2.1 inv_Platform_Get

function inv_Platform_Get() as object	
Scope	static
Parameters	none
Return type	inv_Platform associative array.
Description	Returns a global inv_Platform instance that holds application's session with the platform.

1.1.2.2 inv_Platform_ LoginAsNewGuest

function inv_Platform_ LoginAsNewGuest() as boolean	
Scope	instance
Instance method name	LoginAsNewGuest
Parameters	none
Return type	boolean
Description	Tries to create a new guest account at the platform. If account has been created successfully, the method returns true, member variable user holds newly created guest account and the session is saved in registry. Otherwise it returns false and member variable user holds an invalid value.

1.1.2.3 inv_Platform_ LoginSavedUser

function inv_Platform_ LoginSavedUser() as boolean	
Scope	instance
Instance method name	LoginSavedUser
Parameters	none
Return type	boolean
Description	Logs-in current user from saved session. If user has been logged-in successfully, the method returns true, member variable user holds newly logged-in user account. Otherwise it returns false and member variable user holds an invalid value. If there is currently logged-in user method returns true without updating user info. If there is no session saved in registry, this method returns false.

1.1.2.4 inv_Platform_LogOutUser

function inv_Platform_ LogOutUser() as void	
Scope	instance
Instance method name	LogOutUser
Parameters	none
Return type	void

Description	Logs-out currently logged-in user, and clears the saved session.

1.1.2.5 inv_Platform_OnVideoStart

function inv_Platform_OnVideoStart(invVideo as object) as boolean		
Scope	Instance	
Instance method	OnVideoStart	
Parameters	**invVideo**	
	Type	inv_Video
	Description	video that is going to be played.
Return type	boolean	
Description	This method must be called before video is being played. The method initializes all video applications added by the publisher to the video and keeps a reference to it in video attribute. On successful initialization of all video applications method returns true and video can be played, otherwise returned value is false and video should not be played.	

1.1.2.6 inv_Platform_OnVideoProgress

function inv_Platform_OnVideoProgress(videoPlayer as object, videoProgress as integer) as boolean		
Scope	instance	
Instance method name	OnVideoProgress	
Parameters	**videoPlayer**	
	Type	roVideoScreen
	Description	Roku video screen object that is playing the video.
Return type	boolean	
Description	This method must be called on video progress for updating video applications. On successful update of all video applications this method returns true and video can continue with playing, otherwise returned value is false and video should be stopped.	

1.1.2.7 inv_Platform_OnVideoStop

function inv_Platform_OnVideoStop() as void	
Scope	Instance
Instance method name	OnVideoStop
Parameters	none
Return type	void
Description	This method must be called when video has finished with playing, to clean up resources and stop video applications.

1.2   inv_Application

1.2.1   Attributes

1.2.2   Methods

1.2.2.1   inv_NewApplication

function inv_NewApplication(applicationData as object) as object	
Scope	static
Parameters	<table><tr><td colspan="2">***applicationData***</td></tr><tr><td>**Type**</td><td>roAssociativeArray</td></tr><tr><td>**Description**</td><td>json associative array of video application data.</td></tr></table>
Return type	Associative array for video application.
Description	Creates a video application of type depending on applicationData. All video applications must implement following instance methods: • function Start() as boolean • function Update(videoPlayer as object, videoProgress as object) as boolean • function Stop() as void

1.3   inv_Video

1.3.1   Attributes

1.3.1.1   id

id as string	
Scope	instance
Type	string
Description	Video's id at the platform side.

1.3.1.2   source_url

source_url as string	
Scope	instance
Type	string
Description	Video's source url.

1.3.1.3   title

title as string	
Scope	instance
Type	string
Description	Video's title.

1.3.1.4   ovp_name

ovp_name as string	
Scope	instance
Type	string
Description	Video's online video platform name.

1.3.1.5   brightcove

brightcove as string	
Scope	instance
Type	string
Description	Whether the video is from Brightcove OVP. Possible values: 0: it is not Brightcove video; 1: it is Brightcove video;

1.3.1.6   bc_video_id

bc_video_id as string	
Scope	instance
Type	string
Description	If video is Brightcove video, this attribute identifies it at Brightcove OVP.

1.3.1.7   publisher

publisher as object	
Scope	instance
Type	Inv_Publisher
Description	Video's publisher.

1.3.1.8   is_paid

is_paid as boolean	
Scope	instance
Type	boolean
Description	Whether video is paid.

1.3.1.9   applications

applications as object	
Scope	instance
Type	roArray
Description	Array of all applications for this video.

1.3.2 Methods

1.3.2.1 inv_NewVideo

function inv_NewVideo(videoDetails as object) as object		
Scope	static	
Parameters	**videoDetails**	
	Type	roAssociativeArray
	Description	json associative array returned by platform's api call get_video_details.
Return type	inv_Video	
Description	Creates a new inv_Video from a json result of get_video_details platform's api call.	

1.3.2.2 inv_Video_GetDetails

function inv_Video_GetDetails(videoId as string, invUser=invalid as object, ovpVideoType="bc_video_id" as string) as object		
Scope	static	
Parameters	**videoId**	
	Type	string
	Description	Id of video to get details for.
	invUser	
	Type	inv_User
	Description	User to get video details for.
	ovpVideoType	
	Type	Type of video_id parameter. Can be: • bc_video_id (default); • unicorn_video_id; • video_id;
	Description	User to get video details for.
Return type	inv_Video	
Description	Retrieves video details for a given video id and user. It performs platform's get_video_details call, and on success returns inv_Video otherwise null (invalid).	

1.3.2.3 inv_Video_UpdateIsPaid

function inv_Video_UpdateIsPaid(invUser as object) as boolean	
Scope	instance

Parameters	**invUser**	
	Type	string
	Description	User to update video's is_paid attribute for.
Return type	boolean	
Description	Updates video's is_paid for a given user. It performs platforms's get_video_details call, on success updates is_paid attribute only and returns true, otherwise returns false.	

1.4   inv_User

1.4.1   Attributes

1.4.1.1   *logged_in*

logged_in as boolean	
Scope	instance
Type	boolean
Description	Whether the user is logged-in

1.4.1.2   *username*

username as string	
Scope	instance
Type	string
Description	User's username

1.4.1.3   *session_id*

session_id as string	
Scope	instance
Type	string
Description	User's session_id returned by platform api

1.4.1.4   *random*

random as string	
Scope	instance
Type	string
Description	User's random returned by platform api

1.4.1.5   *checksum*

checksum as string	
Scope	instance
Type	string

Description	User's checksum returned by platform api

1.4.1.6 user_id

user_id as integer	
Scope	instance
Type	integer
Description	User's user_id number returned by platform api

1.4.1.7 guest

guest as boolean	
Scope	instance
Type	boolean
Description	Whether the user is guest user

1.4.1.8 fullname

fullname as string	
Scope	instance
Type	string
Description	User's fullname

1.4.1.9 email

email as string	
Scope	instance
Type	string
Description	User's email

1.4.1.10 balance

balance as string	
Scope	instance
Type	string
Description	User's balance

1.4.1.11 system_balance

system_balance as string	
Scope	instance
Type	string
Description	User's system balance

1.4.1.12 country_code

country_code as string	
Scope	instance
Type	string
Description	User's country code

1.4.1.13 saved_cards

saved_cards as object	
Scope	instance
Type	roArray of user saved credit or debit card
Description	User's saved cards

1.4.2 Methods

1.4.2.1 inv_NewUser

function inv_NewUser() as object	
Scope	static
Parameters	none
Return type	inv_User
Description	Creates a new inv_User object

1.4.2.2 inv_User_InitFromJSON

function inv_User_InitFromJSON(jsonResponse as object) as object		
Scope	instance	
Instance method name	InitFromJSON	
Parameters	*jsonResponse*	
	Type	roAssociativeArray
	Description	json associative array returned by platform's api call like getuserinfo.

Return type	roAssociativeArray: {
	    result as boolean,
	    message as string
	}	

Description	Fills in this inv_User object from json associative array returned by platform's api call like getuserinfo, and returns true on success, otherwise false.	

1.4.2.3 inv_User_Register

function inv_User_Register(fullname as string, email as string, username as string, password as string, repassword as string) as object

Scope	instance

Instance method name	Register

Parameters	fullname	
	Type	string
	Description	User's fullname
	email	
	Type	string
	Description	User's email
	username	
	Type	string
	Description	User's username
	password	
	Type	string
	Description	User's password
	repassword	
	Type	string
	Description	User's password retyped

Return type	roAssociativeArray: {
	
	        result as boolean,
	
	        message as string
	
	}

Description	Registers a new user at the platform with given user details. If user is already logged-in result is false, otherwise result is a value returned from a call to inv_User_InitFromJSON.

1.4.2.4   inv_User_Login

function inv_User_Login(username as string, password as string) as object	

Scope	instance

Instance method name	Login

Parameters	username	
	Type	string
	Description	User's username
	password	
	Type	string
	Description	User's password

Return type	roAssociativeArray: {

	result as boolean,
	message as string
	}
Description	Logs-in a user at the platform with a given username and password.
	If user is already logged-in then result is false, otherwise result is a value returned from a call to inv_User_InitFromJSON.

1.4.2.5   inv_User_UpdateInfo

function inv_User_UpdateInfo() as boolean	
Scope	instance
Instance method name	UpdateInfo
Parameters	none
Return type	roAssociativeArray: {
	result as boolean,
	message as string
	}
Description	Updates user info of already logged-in user.
	If user is not already logged-in then result is false, otherwise result is a value returned from a call to inv_User_InitFromJSON.

1.4.2.6   inv_User_GetInfo

function inv_User_GetInfo(session_id=invalid as string) as boolean		
Scope	instance	
Instance method name	GetInfo	
Parameters	**session_id**	
	Type	string
	Description	Invideous user's session-id
Return type	boolean	
Description	Retrieves user info for a given *session_id*.	
	If user is already logged-in then result is false.	
	session_id can be null (invalid).	
	If *session_id* is invalid this method will try to create a guest user account at Invideous platform and on success returns true otherwise false.	
	If *session_id* is not null (invalid) the method retrieves user info from Invideous platform for given *session_id* and on success returns true otherwise false.	

1.4.2.7   inv_User_Logout

function inv_User_Logout() as boolean

Scope	instance
Instance method name	Logout
Parameters	none
Return type	boolean
Description	Logs-out currently logged-in user.
	If user is not logged-in returns false.
	On successful logout returns true otherwise false.

1.4.2.8   inv_User_GetPurchasedItems

function inv_User_GetPurchasedItems() as object	
Scope	instance
Instance method name	GetPurchasedItems
Parameters	none
Return type	json associative array returned by platform's get_purchased_items api call.
Description	Performs an Invideous platform's get_purchased_items api call and on success returns json array of user's purchased items otherwise null (invalid).

1.4.2.9   inv_User_GetPaidSubscriptions

function inv_User_GetPaidSubscriptions() as object	
Scope	instance
Instance method name	GetPaidSubscriptions
Parameters	none
Return type	json associative array returned by platform's get_user_paid_subscriptions api call.
Description	Performs an Invideous platform's get_user_paid_subscriptions api call and on success returns json array of user's paid subscriptions otherwise null (invalid).

1.4.2.10 inv_User_GetSubscriptionsWithPublishers

function inv_User_GetPaidSubscriptions() as object	
Scope	instance
Instance method name	GetSubscriptionsWithPublisher
Parameters	none
Return type	json associative array returned by platform's get_subscriptions_with_publishers api call.
Description	Performs an Invideous platform's get_subscriptions_with_publishers api call and on success returns json array of user's subscriptions with publishers otherwise null (invalid).

1.4.2.11 inv_User_ListVideoAccess

function inv_User_ListVideoAccess(publisher="all" as string) as object		
Scope	instance	
Instance method name	ListVideoAccess	
Parameters	**publisher**	
	Type	string
	Description	which publisher
Return type	json associative array returned by platform's list_video_access api call.	
Description	Performs an Invideous platform's list_video_access api call and on success returns json array of user's accessible videos for a given publisher otherwise null (invalid).	

1.4.2.12 inv_User_MakeCardPayment

function inv_User_MakeCardPayment(invItemOrder as object, invCard as object, invRefferer="" as string) as object		
Scope	instance	
Instance method name	MakeCardPayment	
Parameters	**invItemOrder**	

	Type	roAssociativeArray: {
		        id as string,
		        item_type as string
		}

	Description	item to pay
	invCard	
	Type	inv_CardInfo
	Description	Card to pay with
	invRefferer	
	Type	string
	Description	refferer

Return type	roAssociativeArray: {
	        result as integer,
	        message as string,
	        details as object
	}	

Description	Performs an Invideous platform's make_card_payment call and on success returns result code 0 and details contains json associative array returned by make_card_payment platform's api call, otherwise result code is >0 and details is invalid.	

Result codes:

- 100: user is not signed in;
- 101: guest's email is required (for payment as guest);
- 102: Invalid arguments (invCard or invItemOrder is invalid);
- 103: network error occurred;
- 104: platform api call returned error;

1.4.2.13 inv_User_MakeSavedCardPayment

function inv_User_MakeSavedCardPayment(invItemOrder as object, invSavedCard as object, invRefferer="" as string) as object		
Scope	instance	
Instance method name	MakeSavedCardPayment	
Parameters	**invItemOrder**	

	Type	roAssociativeArray: {
		
		id as string,
		
		item_type as string
		
		}

	Description	item to pay
	invSavedCard	

	Type	roAssociativeArray: {
		
		id as string,
		
		card_number as string
		
		}

	Description	Saved card to pay with
	invRefferer	
	Type	string
	Description	refferer

Return type	roAssociativeArray: {
	
	result as integer,
	
	message as string,
	
	details as object
	
	}	

Description	Performs an Invideous platform's make_card_payment call and on success returns result code 0 and details contains json associative array returned by make_card_payment platform's api call, otherwise result code is >0 and details is invalid.	

Result codes:

- 100: user is not signed in;
- 101: guest's email is required (for payment as guest);
- 102: Invalid arguments (invSavedCard or invItemOrder is invalid);
- 103: network error occurred;
- 104: platform api call returned error;

1.4.2.14 inv_User_SaveSession

function inv_User_SaveSession(session_id as string) as boolean		
Scope	static	
Parameters	**session_id**	
	Type	rstring
	Description	User's session_id
Return type	boolean	
Description	Saves the user's session_id in device registry	

1.4.2.15 inv_User_LoadSession

function inv_User_LoadSession() as object	
Scope	static
Parameters	none
Return type	object
Description	Loads the user's session_id from registry and returns it as string. If there is no session_id saved in registry returns null (invalid).

1.4.2.16 inv_User_ClearSession

function inv_User_ClearSession() as boolean	
Scope	static
Parameters	none
Return type	boolean
Description	Clears the saved user's session. Currently, it returns always true.

1.5 Inv_Publisher

1.5.1 Attributes

1.5.1.1 id

id as string	
Scope	instance

Type	string
Description	Publisher's id.

username as string	
Scope	instance
Type	string
Description	Publisher's username.

1.6   inv_KeyValArray

1.6.1   Attributes

container as object	
Scope	instance
Type	roArray
Description	Array of key<->value pairs

1.6.2   Methods

function inv_NewKeyValArray() as object	
Scope	static
Parameters	none
Return type	inv_KeyValArray
Description	Creates a new inv_KeyValArray object

function inv_KeyValArray_Add(kvKey as string, kvValue as object) as void		
Scope	instance	
Instance method name	Add	
Parameters	*kvKey*	
	Type	string
	Description	key-value pair's key part
	kvValue	
	Type	string

	Description	key-value pair's value part
Return type	Associative array for video application.	
Description	Adds a new key-value pair to the array	

1.6.2.3 inv_KeyValArray_Sort

function inv_KeyValArray_SortByKeys() as void	
Scope	instance
Instance method name	Sort
Parameters	none
Return type	void
Description	Sorts the key-value array by key, ascending.

1.7 inv_CardInfo

1.7.1 Attributes

1.7.1.1 is_debit

is_debit as boolean	
Scope	instance
Type	boolean
Description	Wheter the card is debit

1.7.1.2 holders_name

holders_name as string	
Scope	instance
Type	string
Description	Card holders name

1.7.1.3 number

number as string	
Scope	instance
Type	string
Description	Card's number

1.7.1.4 cvv_code

cvv_code as string	
Scope	instance
Type	string
Description	Card's CVV code

1.7.1.5 expiry_month

expiry_month as string	
Scope	instance
Type	string
Description	Card's expiry month

1.7.1.6 expiry_year

expiry_year as string	
Scope	instance
Type	string
Description	Card's expiry year

1.7.1.7 issuing_bank

Issuing_bank as string	
Scope	instance
Type	string
Description	Card's issuing bank, relevant only for debit cards (is_debit is true)

1.7.2 Methods

1.7.2.1 inv_NewCardInfo

function inv_NewCardInfo(invIsDebit=false as boolean) as object		
Scope	static	
Parameters	**invIsDebit**	
	Type	boolean
	Description	Whther to create a new debit or credit card info
Return type	inv_CardInfo	
Description	Creates a new inv_CardInfo object	

1.8 inv_Paywall

1.8.1 Attributes

1.8.1.1 id

id as string	
Scope	instance
Type	string
Description	Application's id.

1.8.1.2   name

name as string	
Scope	instance
Type	string
Description	Application's name. For paywall application it is "paywall".

1.8.1.3   paywall_enabled

paywall_enabled as boolean	
Scope	instance
Type	boolean
Description	Whether paywall application is enabled.

1.8.1.4   marketing_opt

marketing_opt as boolean	
Scope	instance
Type	boolean
Description	Whether marketing options is enabled.

1.8.1.5   paywall_time

paywall_time as string	
Scope	instance
Type	string
Description	?

1.8.1.6   payment_options

payment_options as object	
Scope	instance
Type	roArray of string
Description	Array of payment methods, possible values: • card • paypal

1.8.1.7   subscription_tariffs

subscription_tariffs as object	
Scope	instance
Type	roArray of inv_SubscriptionTariff
Description	Available subscription options/tariffs defined by publisher.

1.8.2 Methods

1.8.2.1 inv_NewPaywall

function inv_NewPaywall(paywallData as object) as object	
Scope	static
Parameters	none
Return type	inv_Paywall
Description	Creates a inv_Paywall application

1.8.2.2 inv_Paywall_Start

function inv_Paywall_Start() as boolean	
Scope	instance
Instance method name	Start
Parameters	none
Return type	boolean
Description	Starts the paywall application. Returns always true.

1.8.2.3 inv_Paywall_Update

function inv_Paywall_Update(videoPlayer as object, videoProgress as integer) as boolean			
Scope	instance		
Instance method name	Update		
Parameters	*videoPlayer*		
	Type	roVideoScreen	
	Description	Roku roVideoScreen that is playing current video	
	videoProgress		
	Type	integer	
	Description	Playing video progress in seconds	
Return type	boolean		
Description	Updates the paywall application. This method checks whether current playing video is paid. If video is not paid, guides the user through getting access process. Returns true if video is paid otherwise false.		

1.8.2.4 inv_Paywall_Stop

function inv_Paywall_Stop() as void	
Scope	instance
Instance method name	Stop
Parameters	none

Return type	void
Description	This method does nothing.

1.8.2.5 inv_Paywall_BuyAccess

function inv_Paywall_BuyAccess() as integer	
Scope	instance
Instance method name	BuyAccess
Parameters	none
Return type	integer
Description	This method guides the user through buying access process. Returns integer with following possible values: • -1: user choses to go back (previous screen); • 0: user has successfully bought an access; • 100: there was no currently logged-in user and creating a guest account failed; • 101: there was no ordering options available; • 102: payment process failed for any reason; • 103: choosing item order failed for any reason;

1.8.2.6 inv_Paywall_AlreadyHaveAccess

function inv_Paywall_AlreadyHaveAccess() as integer	
Scope	instance
Instance method name	AlreadyHaveAccess
Parameters	none
Return type	integer
Description	This method guides the user to gain access with an existing account. Returns integer with following possible values: • -1: user choses to go back (previous screen); • 0: user has successfully gained an access with an existing account; If none of above conditions is met, user will be guided through buying an access with inv_Paywall_BuyAccess, and returns the result from that method.

1.9 inv_SubscriptionTariff

1.9.1 Attributes

1.9.1.1 id

id as string	
Scope	instance

Type	string
Description	Subscription tariff's id.

1.9.1.2   price

price as string	
Scope	instance
Type	string
Description	Subscription tariff's price.

1.9.1.3   name

name as string	
Scope	instance
Type	string
Description	Subscription tariff's name.

1.9.1.4   period

period as string	
Scope	instance
Type	string
Description	Subscription tariff's period.

1.9.1.5   item_type

Item_type as string	
Scope	instance
Type	string
Description	Item order's type. For subscription tariffit is always "subscription".

1.9.1.6   paypal_comission

paypal_comission as string	
Scope	instance
Type	string
Description	Subscription tariff's paypal comission.

1.9.1.7   system_price

system_price as string	
Scope	instance
Type	string
Description	Subscription tariff's price in system currency.

1.9.1.8 currency

currency as string	
Scope	instance
Type	string
Description	The currency of subscription tariff's price.

1.9.1.9 currency_symbol

currency as string	
Scope	instance
Type	string
Description	The currency symbol of subscription tariff's price.

1.9.2 Methods

1.9.2.1 inv_NewSubscriptionTariff

function inv_NewSubscriptionTariff(subscriptionTariffData as object) as object		
Scope	static	
Parameters	**subscriptionTariffData**	
	Type	roAssociativeArray
	Description	json associative array for subscription tariff of paywall application returned by platform's api call get_video_details.
Return type	inv_SubscriptionTariff	
Description	Creates a new inv_SubscriptionTariff .	

1.10 inv_InputScreen

1.10.1 Attributes

1.10.1.1 title

id as string	
Scope	instance
Type	string
Description	Input screen's title.

1.10.2 Methods

1.10.2.1 inv_NewInputScreen

function inv_NewInputScreen(inputTitle="" as string) as object	
Scope	static
Parameters	**inputTitle**

	Type	string
	Description	Input screen's title
Return type	inv_InputScreen	
Description	Creates a new inv_InputScreen	

1.10.2.2 inv_InputScreen_MessageBox

function inv_InputScreen_MessageBox(text="" as string, buttons=["Yes", "No"] as object) as object		
Scope	instance	
Instance method name	MessageBox	
Parameters	*text*	
	Type	string
	Description	Info text presented to the user
	Buttons	
	Type	roArray
	Description	Buttons as an array of strings that needs to be shown in the message box.

Return type	roAssociativeArray: {
	          result as integer,
	          button as integer
	 }	

Description	Shows a message box with information text and set of buttons. If user press a back button on remote controller, returned result is false, otherwise returned result is true and button is the index of button that was pressed.	

1.10.2.3 inv_InputScreen_GetInputChoice

function inv_InputScreen_GetInputChoice(text="" as string, choices=["Yes", "No"] as object, overlay=true as boolean) as object		
Scope	instance	
Instance method name	GetInputChoice	
Parameters	*text*	
	Type	string
	Description	Info text presented to the user
	choices	
	Type	roArray
	Description	Choices as an array of strings that user can choose from.

Return type	roAssociativeArray: {
	       result as integer,
	       choice as integer
	}

Description	Asks the user to choose one from available choices. If user press a back button on remote controller, returned result is false, otherwise returned result is true and choice is the index of a choice that was pressed.

1.10.2.4 inv_InputScreen_GetInputText

function inv_InputScreen_GetInputText(displayText as string, initialText="" as string, buttons=["Next", "Back"] as object, secure=false as boolean) as object		
Scope	instance	
Instance method name	GetInputText	
Parameters	**displayText**	
	Type	string
	Description	Info text presented to the user
	initialText	
	Type	string
	Description	Initial input text field value
	buttons	
	Type	roArray
	Description	Buttons as an array of strings that needs to be shown at the input text screen.

Return type	roAssociativeArray: {
	       result as integer,
	       button as integer,
	       value as string
	}	

Description	Asks the user to input text, with initial value, and an option for whether entered text is hidden/secured or not. A set of buttons is presented to the user too. If user press a back button on remote controller, returned result is false, otherwise returned result is true, value contains entered text and button is the index of a button that was pressed.	

1.10.2.5 inv_InputScreen_GetInputPin

function inv_InputScreen_GetInputPin(buttons=["Next", "Back"] as object, numPinEntryFields=4 as integer) as object

Scope	instance
Instance method name	GetInputPin
Parameters	**buttons**
	Type	roArray
	Description	Buttons as an array of strings that needs to be shown at the pin input screen.
	numPinEntryFields
	Type	integer
	Description	Number of entered pin digits.

Return type	roAssociativeArray: {
	      result as integer,
	      button as integer,
	      pin as string
	}

Description	Asks the user to enter pin code, with exact number of pin digits. A set of buttons is presented to the user too. If user press a back button on remote controller, returned result is false, otherwise returned result is true, pin contains entered pin code and button is the index of a button that was pressed.

1.11 inv_PaymentScreen

1.11.1 Attributes

1.11.1.1 item_order

item_order as object	
Scope	instance

Type	roAssociativeArray: {
	      id as string,
	      item_type as string
	}

Description	Item to pay.

1.11.1.2 payment_options

payment_options as object	
Scope	instance
Type	roArray

Description	Array of payment methods, possible values:
	    • card
	    • paypal

1.11.2 Methods

1.11.2.1 inv_NewPaymentScreen

function inv_NewPaymentScreen(invItemOrder as object, paymentOptions as object) as object		
Scope	static	
Parameters	**invItemOrder**	

	Type	roAssociativeArray: {
		      id as string,
		      item_type as string
		}

	Description	Item to pay.
	paymentOptions	
	Type	roArray
	Description	Array of payment methods, possible values: • card • paypal
Return type	inv_PaymentScreen	
Description	Creates a new inv_PaymentScreen	

1.11.2.2 inv_PaymentScreen_PayItemOrder

function inv_PaymentScreen_PayItemOrder() as object	
Scope	instance
Instance method name	PayItemOrder
Parameters	none

Return type	roAssociativeArray: {
	      result as integer
	}

Description	Guides user through the payment process for the item to order with a given payment options. Returned result codes are: • -1: user choses to go back (previous screen); • 0: payment was successful;

1.12 inv_CardPaymentScreen

1.12.1 Attributes

1.12.1.1 description

description as string	
Scope	instance

Type	string
Description	Description text used by inv_PaymentScreen while presenting the user with available payment methods.

1.12.1.2 item_order

item_order as object	
Scope	instance

Type	roAssociativeArray: {
	    id as string,
	    item_type as string
	}

Description	Item to pay.

1.12.2 Methods

1.12.2.1 inv_NewCardPaymentScreen

function inv_NewCardPaymentScreen(invItemOrder as object) as object		
Scope	static	
Parameters	invItemOrder	

	Type	roAssociativeArray: {
		    id as string,
		    item_type as string
		}

	Description	Item to pay.
Return type	inv_CardPaymentScreen	
Description	Creates a new inv_CardPaymentScreen	

1.12.2.2 inv_CardPaymentScreen_MakePayment

function inv_CardPaymentScreen_MakePayment() as object	
Scope	instance
Instance method name	MakePayment
Parameters	none

Return type	roAssociativeArray: {
	    result as integer
	}

Description	Guides user through the card payment process for the item to order. Returned result codes are: • -1: user choses to go back (previous screen); • 0: payment was successful;

	• 100: inv_CardPaymentScreen_MakeNewCardPayment method has failed;
	• 101: inv_CardPaymentScreen_MakeSavedCardPayment method has failed;

1.12.2.3 inv_CardPaymentScreen_MakeNewCardPayment

function inv_CardPaymentScreen_MakeNewCardPayment(isDebit as boolean) as object	
Scope	instance
Instance method name	MakeNewCardPayment
Parameters	**isDebit**
		Type	boolean	
		Description	Whether payment is with a new debit card or new credit card	

Return type	roAssociativeArray: {
	
	result as integer
	
	}

Description	Guides user through the payment with a new credit/debit card process for the item to order. Returned result codes are: • -1: user choses to go back (previous screen); • 0: payment was successful; • 100: platform's make_card_payment api call has failed;

1.12.2.4 inv_CardPaymentScreen_MakeSavedCardPayment

function inv_CardPaymentScreen_MakeSavedCardPayment() as object	
Scope	instance
Instance method name	MakeSavedCardPayment
Parameters	none

Return type	roAssociativeArray: {
	
	result as integer
	
	}

Description	Guides user through the payment with a saved credit/debit card process for the item to order. Returned result codes are: • -1: user choses to go back (previous screen); • 0: payment was successful; • 100: platform's make_card_payment api call has failed;

1.13 inv_SubscriptionScreen

1.13.1 Attributes

1.13.1.1 subscription_tariffs

Subscription_tariffs as object	
Scope	instance
Type	roArray of inv_SubscriptionTariff
Description	An array of available subscription tariffs

1.13.1.2 title

title as string	
Scope	instance
Type	string
Description	Title text used by inv_PaymentScreen while presenting the user with available item types to order.

1.13.2 Methods

1.13.2.1 inv_NewSubscriptionScreen

function inv_NewSubscriptionScreen(invSubscriptionTariffs as object) As Object		
Scope	static	
Parameters	invSubscriptionTariffs	
	Type	roArray of inv_SubscriptionTariff
	Description	An array of available subscription tariffs
Return type	inv_SubscriptionScreen	
Description	Creates a new inv_SubscriptionScreen	

1.13.2.2 inv_SubscriptionScreen_ChooseOrder

function inv_SubscriptionScreen_ChooseOrder() as object	
Scope	instance
Instance method name	ChooseOrder
Parameters	none

Return type	roAssociativeArray: {
	
	result as integer,
	
	item_order as object
	
	}

Description	Asks the user to choose one from available subscription tariffs. If user choses to go back (previous screen) returned result code is -1 and item_order is null (invalid) otherwise returned result code is 0 and item_order is the chosen subscription tariff by the user.

1.14 inv_UserAuthorizationScreen

1.14.1 Attributes

1.14.2 Methods

1.14.2.1 inv_NewUserAuthorizationScreen

function inv_NewUserAuthorizationScreen()	
Scope	static
Parameters	none
Return type	inv_UserAuthorizationScreen
Description	Creates a new inv_UserAuthorizationScreen

1.14.2.2 inv_UserAuthorizationScreen_Register

function inv_UserAuthorizationScreen_Register() as *object*	
Scope	instance
Instance method name	Register
Parameters	none

Return type	roAssociativeArray: {
	    result as integer,
	    message as string,
	    user as inv_User,
	    password as string
	}

Description	Guides the user through new user registration steps. If user choses to go back (previous screen) returned result code is -1, user is null (invalid) and password is empty. If registration succeeded returned result code is 0, user is valid inv_User and password is supplied password by the user. If registration failed returned result code is 100, user is null (invalid) and password is empty.

1.14.2.3 inv_UserAuthorizationScreen_Login

function inv_UserAuthorizationScreen_Login() as *object*	
Scope	instance
Instance method name	Login
Parameters	none

Return type	roAssociativeArray: {
	    result as integer,
	    message as string,
	    user as inv_User,
	    password as string

	}
Description	Guides the user through user login steps.
	If user choses to go back (previous screen) returned result code is -1, user is null (invalid) and password is empty.
	If login succeeded returned result code is 0, user is valid inv_User and password is supplied password by the user.

1.15 inv_VideoScreen

1.15.1 Attributes

1.15.1.1 episode

episode as object	
Scope	instance
Type	roAssociativeArray
Description	This attribute must conforms to Roku's roVideoScreen.SetContent()

1.15.1.2 screen

screen as object	
Scope	instance
Type	roVideoScreen
Description	A video screen that will play the video.

1.15.1.3 port

port as object	
Scope	instance
Type	roMessagePort
Description	A message port for screen object.

1.15.2 Methods

1.15.2.1 inv_NewVideoScreen

function inv_NewVideoScreen(invEpisode as object) as object		
Scope	static	
Parameters	**invEpisode**	
	Type	roAssociativeArray
	Description	See episode attribute.
Return type	inv_VideoScreen	
Description	Creates a new inv_VideoScreen.	

1.15.2.2 inv_VideoScreen_Play

function inv_VideoScreen_Play(invPosition=0 as *integer*) as *boolean*		
Scope	instance	
Instance method name	Play	
Parameters	**invPosition**	
	Type	integer
	Description	Position to play video from in seconds.
Return type	boolean	
Description	Starts playing the episode from a given position in seconds.	

1.15.2.3 inv_VideoScreen_Stop

function inv_VideoScreen_Stop() as *void*	
Scope	instance
Instance method name	Stop
Parameters	none
Return type	void
Description	Stops playing the episode. It also destroys the screen and the port.

2 Usage

Invideous Roku Library is designed for very simple usage. All session variables, current logged-in user, current playing video etc. is held by global singleton object inv_Platform and can be accessed at any time by calling inv_Platform_Get.

At very first execution point of application, library needs to be initialized like following:

```
invPlatform=inv_Platform_Get()
invPlatform.refferer="http://www.example.com"
```

Here is a code snippet for how to play a published video at Invideous video platform:

```
function playVideo(episode as object) as boolean

    invPlatform=inv_Platform_Get()
    ' retrieve video details:
    invVideo=inv_Video_GetDetails(episode.id, invPlatform.user)

    if invVideo=invalid then
        return false
    end if
```

```
    ' notify inv_Platform for video we want to play:
    if not invPlatform.OnVideoStart(invVideo) then
        return false
    end if

    ' create a new inv_VideoScreen for playing video
    invVideoScreen=inv_NewVideoScreen(episode)

    if not invVideoScreen.Play() then
        return false
    endif

    while true
        msg=invVideoScreen.Wait()
        if type(msg) = "roVideoScreenEvent" then
            if msg.isScreenClosed() then
                exit while
            elseif msg.isRequestFailed() then
                print "Video request failure: "; msg.GetIndex(); " " msg.GetData()
            elseif msg.isStatusMessage() then
                print "Video status: "; msg.GetIndex(); " " msg.GetData()
            elseif msg.isButtonPressed() then
                print "Button pressed: "; msg.GetIndex(); " " msg.GetData()
            elseif msg.isPlaybackPosition() then
                nowpos=msg.GetIndex()

                ' notify inv_Platform on each video progress.
                ' inv_Platform will update each video application associated with video.
                ' On failure to update of at least one video application, inv_Platform.OnVideoProgress() will
                ' return false, and we need to stop playing the video.
                if not invPlatform.OnVideoProgress(invVideoScreen, nowpos) then
                    exit while
                end if
            else
                print "Unexpected event type: "; msg.GetType()
            end if
        else
            print "Unexpected message class: "; type(msg)
        end if
    end while

    invVideoScreen.Stop()

    ' notify inv_Platform that we have finished playing the video
    invPlatform.OnVideoStop()
    return true

end function
```