

Account Server API

For Account Server 2.2

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Overview:

The Account Server is responsible for authenticating user accounts. It verifies that the player has an account in good standing. It keeps track of which products the player has purchased and controls game access by verifying the player's current subscriptions.

All Account Server API's are handled via XML-RPC. The API's can create or update user account information, including: contact information, billing methods, products owned, subscriptions owned and other key information.

A product is generally a unit of merchandise that is given or sold to the player. This includes video games and expansions (Champions, Star Trek), merchandise (t-shirts, media tie-in novels), micro-transacted items (virtual gear, costume packs), as well as 'mock subscriptions' which represent non-recurring subscriptions that are not communicated to Vindicia, such as lifetime and trial subscriptions. Access to the account server admin page, the testing and development game shards, and other areas is also managed by products associated with the appropriate accounts.

A subscription plan grants continued access to a game product owned by the player. This includes standard recurring subscriptions in yearly, monthly, weekly or day formats, and pre-paid game card subscriptions. From a player perspective, a user account must acquire the game product in order to buy a subscription for the game. These can be purchased together, or a subscription can be added or changed at a later time. If a user account has a product attached that requires a subscription, the permissions and access level granted by that product only take effect if the required subscription is present.

The account server uses the API to collect and pass the billing data used to purchase these products and subscription plans, however billing is handled by a third-party company - Vindicia. To manage paid subscription access, the account server uses a cached record of the payment status for all user accounts pulled from Vindicia on a daily basis and updated as changes are made.

This document is laid out in the following sections:

- **Flags:** Flags may be passed to a number of the API's to trigger alternative behavior.
- **API:** The full list of API's for internal and partner use. These are organized by type, and include a description, a tabbed list of embedded structures (if applicable), a list of parameters, and the response.
- **Structures:** This includes all structures from the API's, including the API responses. These include a description, a tabbed list of embedded structures showing the position of the structure, and the return values.

All API information is to be kept strictly confidential. The information in this document is for internal and partner use only.

Flags:

These bitwise flags are all represented and passed in a single integer. The position of the flag in the integer is dictated by the bit position - such as $(1 \ll 2)$ or (4) .

User Info Flags:

These flags, if provided to an API that returns user information, can add additional fields to the response.

USERINFO_PERMISSIONS

- $(1 \ll 0)$

If the permissions flag is present, it will add the ProductPermissions struct to XMLAccountResponse.

USERINFO_KEYVALUES

- $(1 \ll 1)$

If the key values flag is present, it will add the KeyValues struct to XMLAccountResponse.

USERINFO_PRODUCTSOWNED

- $(1 \ll 2)$

If the products owned flag is present, it will add the Products struct to XMLAccountResponse.

USERINFO_QUESTIONS

- $(1 \ll 3)$

If the questions flag is present, it will add the secretQuestions string array to XMLAccountResponse.

USERINFO_PRODUCTKEYS

- $(1 \ll 4)$

If the product keys flag is present, it will add the ProductKeyInfo array to XMLAccountResponse.

USERINFO_DISTRIBUTEDPRODUCTKEYS

- (1 << 5)

If the distributed product keys flag is present, it will add the distributedProductKeys array to XMLAccountResponse.

USERINFO_INTERNALSUBS

- (1 << 6)

If the Internal Subscriptions flag is present, it will add the InternalSubscriptions array to XMLAccountResponse.

USERINFO_ACTIVITYLOG

- (1 << 7)

If the activity log flag is present, it will add the activityLog field to XMLAccountResponse.

Account Creation Flags:

These flags, if provided during account creation, will set skip prefix check, and internal login only.

ACCOUNTCREATE_SKIP_PREFIX_CHECK

- (1 << 0) or (1)

If the Skip Prefix Check flag is present, the account will skip the prefix check.

ACCOUNTCREATE_INTERNAL_LOGIN_ONLY

- (1 << 1) or (2)

If the Internal Login Only flag is present, it sets the user account access to only allow login from within the company network.

API:

This is the full list of Account Server API's for internal and partner use. It is organized by type: General, Product, Subscription, and User Account.

General:

DoPendingAction

This API does a pending action.

Parameter	Type	Description
Request	struct (XMLDoPendingActionRequest) See table on page	The request.

Response: XMLDoPendingActionResponse

TransView

This API checks the status of a pending multi-step transaction.

Parameter	Type	Description
webUID	string	The TransID variable received as part of a response to other calls.

Response: XMLResponseTransView

CreditCard

This structure handles the credit card information.

Structure:

- XMLResponseTransView (struct)
 - AccountTransactionInfo (struct)
 - PaymentMethod (struct)
 - ***CreditCard (struct)***

Return Value	Type	Description
CVV2	string	The three or four digit card security code.
account	string	The account number for the card.
expirationDate	string	The expiration date for the card.

PayPal

This structure handles information for PayPal accounts.

Structure:

- XMLResponseTransView (struct)
 - AccountTransactionInfo (struct)
 - PaymentMethod (struct)
 - ***PayPal (struct)***

Return Value	Type	Description
emailAddress	string	The email address used to login to PayPal.

returnUrl	string	The return URL.
cancelUrl	string	The cancel URL.
password	string	The PayPal password.

XMLAccountResponse

This response handles a response for account information.

Called by: NextUserInfo, UserInfo, ValidateTicketID, IsValidProductKey, ActivateProductKey, ValidateAccountEmail, ResendEmailValidationKey, CreateNewAccount, SetShippingAddress, UpdateUser, ForgotPassword, ValidateLogin.

Structure:

- ***XMLAccountResponse (struct)***
 - XMLAccountPermissionsResponse (array of struct) (optional)
 - accountAddress (struct)
 - CachedPaymentMethod (struct)
 - AccountAddress (struct)
 - CachedAccountSubscriptionList (struct)
 - CachedAccountSubscription (struct)
 - AccountProxyKeyValueInfoList (struct) (optional)
 - AccountProxyValueInfo (struct)
 - XMLAccountAccessResponse (struct)
 - NameIDPair (struct)
 - secretQuestions (array of strings)
 - defaultLocale (string)
 - defaultCurrency (string)
 - ProductKeyInfo (struct)

- InternalSubscription (struct)
- AccountLogEntry (struct)

Return Value	Type	Description
id	integer	The unique ID for the customer.
userStatus	string	Specific result status information on the success of the call, depending on how the API is called. Example: The status of whether the user is allowed to login using the password provided.
loginName	string	The account name.
displayName	string	The customer display name.
email	string	The email address of the customer.
validateEmailToken	string	Token passed to validate the customers email account.
firstName	string	The first name of the customer.
lastName	string	The surname of the customer.
productPermissions	array of struct (XMLAccountPermissionsResponse) See table on page	(optional) This structure is passed if the permissions flag is true.
shippingAddress	struct (accountAddress) See table on page	The shipping address.
paymentMethods	struct (CachedPaymentMethod) See table on page	The cached payment methods.
subscriptions	struct (CachedAccountSubscriptionList) See table on page	The subscriptions attached to the account.

keyValues	struct (AccountProxyKeyValueInfoList) See table on page	(optional) The key-values. This structure is passed if the KeyValues flag is passed.
access	struct (XMLAccountAccessResponse) see table on page	The list of products and shards that an account can access.
products	struct (NameIDPair) See table on page	The products attached to this account.
secretQuestions	array of strings	(optional) The secret questions. This array of strings is passed if the Questions flag is passed.
defaultLocale	string	The default locale.
defaultCurrency	string	The default currency.
productKeys	struct (ProductKeyInfo) See table on page	(optional) The product Keys. This structure is passed if the productKeys flag is passed.
distributedProductKeys	struct (ProductKeyInfo) See table on page	(optional) The distributed product Keys. This structure is passed if the distributedProductKeys flag is passed.
internalSubscriptions	struct (InternalSubscription) See table on page	(optional) Internal subscriptions. This structure is passed if the internalSubscriptions flag is passed.
activityLog	struct (AccountLogEntry) See table on page	(optional) The activity log. This structure is passed if the activityLog flag is passed.