User management applications   
File and WEB service structure

SmartVista Standard

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Introduction

History

|  |  |  |  |
| --- | --- | --- | --- |
| Revision | Date | Author | Details |
| 0.1 | 06.11.2015 | Alalykin A. | First version of the document |
| 0.2 | 11.11.2015 | Alalykin A. | Minimal count for tag PERSON\_NAME was changed |
| 0.3 | 12.11.2015 | Alalykin A. | Tag INSTITUTION\_ID was added to tag APPLICATION |
| 0.4 | 19.11.2015 | Alalykin A. | New description for tag COMMAND of block USER\_ROLE was added |
| 0.5 | 20.11.2015 | Alalykin A. | Quantity and description of tag USER\_INST was corrected |
| 0.6 | 13.01.2016 | Alalykin A. | Block CONTACT was added to block USER |
| 0.7 | 01.02.2016 | Alalykin A. | New element PASSWORD\_HASH was added |
| 0.8 | 19.02.2016 | Alalykin A. | Element INSTITUTION\_ID of block APPLICATION was made optional |
| 0.9 | 25.03.2016 | Alalykin A. | Element INSTITUTION\_ID of block APPLICATION was made mandatory |
| 1.0 | 18.10.2018 | Pestryakov D. | User groups added |

Document purpose

The document is intended for developers of interface with the SmartVista system in terms of user management. The document describes content and structure of the interface.

References

SVAP Web Services schema and its underlying components are required for SmartVista.  
The following are the locations of the WSDL and XSD files.

SVAP XSD: svap\_user\_management.xsd

XML document structure

General

Application for managing SmartVista users is a XML document containing all necessary information to manage users (creation of users, role managing). The application may be sent to SmartVista in offline mode via a file or in online mode via a WEB service. In both cases, the data structure is identical. Several applications can be transferred at once in a single file. Therefore, XML document in the file contains additional root tag APPLICATIONS, which contains several tags APPLICATION. In case of a web service only one application is sent by a single call, and the root tag is always APPLICATION.

As a result of the application processing, system returns the same structure with additional tags. In the case of unsuccessful processing that tag is ERROR. Tag ERROR is tied to the tag which processing is failed. In the case of successful application’s processing some tags with automatically generated identifiers (user\_id, role\_id, etc.) are added in the application structure.

If online validation and processing of an application via a WEB service is unsuccessful, field <faultstring> in response contains human-readable description of an error, block <detail> may contain field <details> with additional information for error’s clarification.

This document describes the overall structure of a user management application and lists of all possible tags. However, the final structure of an application (a set of mandatory tags) depends on an application’s destination (see a description of the tag APPLICATION\_FLOW\_ID).

Each tag type COMPLEX may contain an attribute ID. This is a unique identifier tag within a single application. It is not mandatory. This attribute is used to link the tags if one tag is referring to another. To link one tag to another using the tag’s attribute REF\_ID. This relationship can be used, for example, when it is necessary to establish a connection between a card and an account that an application describes using different tags. In the case when a complex tag should contain a value, it is given in the attribute VALUE.

For some text or a complex tags it is needed to define language that provides the information is contained in the tag. For that purpose attribute LANGUAGE is added, it should contain the value from the dictionary of languages. If a particular tag is a multilingual and it is possible to add several these tags, then they can be added only once per a language.

List of tags

| Tag name | Data type | Length | Occurs | Description |
| --- | --- | --- | --- | --- |
| application | | | | |
| application\_id | long | 16 | 0-1 | Unique ID of an application in SmartVista |
| application\_number | string | 200 | 0-1 | Unique number of an application generated by an external system |
| application\_date | date |  | 0-1 | Date when an application was created in an external system |
| application\_type | string | 8 | 1-1 | Application type. Constant: APTPUMGT – user management application. |
| application\_flow\_id | int | 4 | 1-1 | It describes an application purpose and is chosen from a predefined list. |
| application\_status | string | 8 | 1-1 | Application status. It contains a value from dictionary APST. |
| institution\_id | int | 4 | 1-1 | Institution’s identifier |
| operator\_id | string | 200 | 0-1 | System name of the user who created the application |
| user | complex |  | 1-1 | User data |
| error | complex |  | 0-\* | It contains data error that occurred during processing the parent element |
| user | | | | |
| command | string | 8 | 1-1 | Action which should be applied to the object. Value from dictionary CMMD |
| user\_id | int | 8 | 0-1 | User identifier |
| user\_name | string | 200 | 0-1 | User name |
| password\_hash | string | 128 | 0-1 | Hash value of user’s password |
| user\_status | Int | 1 | 0-1 | User status, it is a value from dictionary USST |
| auth\_scheme | string | 8 | 0-1 | Authentication scheme |
| password\_change\_needed | int | 1 | 0-1 | User must change password on first login flag |
| person | complex |  | 0-1 | Person that is associated with a user |
| user\_inst | complex |  | 0-\* | Institutions that are allowed for a user |
| user\_role | complex |  | 0-\* | User’s roles |
| user\_group | complex |  | 0-1 | User’s groups |
| error | complex |  | 0-\* | It contains data error that occurred during processing the parent element |
| person | | | | |
| command | string | 8 | 1-1 | Action which should be applied to the object. Value from dictionary CMMD |
| person\_title | string | 8 | 0-1 | Title: Mrs., Mss., Dr., etc. It is a value from dictionary PTTL |
| person\_name | complex |  | 0-2 | Person name. It can be provided in a few languages |
| suffix | string | 8 | 0-1 | Name suffix: Sr., Jr., etc. It is a value from dictionary PSFX |
| birthday | date |  | 0-1 | Date of birth |
| place\_of\_birth | string | 200 | 0-1 | Place of birth in a free format |
| gender | string | 8 | 0-1 | Gender: male, female. It is a dictionary value |
| identity\_card | complex |  | 0-3 | ID (identity card) data |
| error | complex |  | 0-\* | It contains data error that occurred during processing the parent element |
| person\_name | | | | |
| surname | string | 200 | 1-1 | Surname |
| first\_name | string | 200 | 1-1 | First name |
| second\_name | string | 200 | 0-1 | Second name |
| identity\_card | | | | |
| command | string | 8 | 1-1 | Action which should be applied to the object. It is a value from dictionary CMMD |
| id\_type | string | 8 | 1-1 | ID type: passport, driver license, etc. It is a value from dictionary IDTP |
| id\_series | string | 200 | 0-1 | ID series |
| id\_number | string | 200 | 1-1 | ID number |
| id\_issuer | string | 200 | 0-1 | Issuing authority |
| id\_issue\_date | date |  | 0-1 | Validity start date |
| id\_expire\_date | date |  | 0-1 | Expiration date |
| id\_desc | string | 2000 | 0-1 | Description in a free format |
| error | complex |  | 0-\* | It contains data error that occurred during processing the parent element |
| contact |  |  |  |  |
| command | string | 8 | 1-1 | Action which should be applied to the object. Value from dictionary CMMD. |
| contact\_type | string | 8 | 1-1 | Contact purpose (owner): primary, secondary, notification, CEO, CFO etc. Value from dictionary CNTT. |
| preferred\_lang | string | 8 | 0-1 | Preferred language of communication. Value from dictionary LANG. |
| job\_title | string | 8 | 0-1 | Contact person position. Value from dictionary JTTL. |
| person | complex |  | 0-1 | Contact person data. |
| contact\_data | complex |  | 1-\* | Contact data. |
| error | complex |  | 0-\* | Contains data error occurred when processing the parent element. |
| contact\_data |  |  |  |  |
| commun\_method | string | 8 | 1-1 | Communication method: phone, fax, email, Skype etc. Value from dictionary CMNM. |
| commun\_address | string | 200 | 1-1 | Communication identifier: phone number, email address, Skype user name etc. |
| start\_date | date |  | 0-1 | Start date |
| end\_date | date |  | 0-1 | End date |
| user\_inst | | | | |
| command | string | 8 | 1-1 | Action which should be applied to the object. Value from dictionary CMMD |
| institution\_id | int | 4 | 1-1 | Institution’s identifier |
| is\_entirely | int | 1 | 0-1 | Flag defines if a user is granted to access to all institution’s agents |
| user\_agent | complex |  | 0-\* | Expiration date of a preceding card’s instance |
| error | complex |  | 0-\* | It contains data error that occurred during processing the parent element |
| user\_agent | | | | |
| command | string | 8 | 1-1 | Action which should be applied to the object. Value from dictionary CMMD |
| agent\_id | int | 8 | 0-1 | Agent’s identifier |
| agent\_number | string | 200 | 0-1 | Agent’s external number |
| is\_default | int | 1 | 0-1 | Default flag for a user’s agent |
| error | complex |  | 0-\* | It contains data error that occurred during processing the parent element |
| user\_role |  |  |  |  |
| command | string | 8 | 1-1 | Action which should be applied to the object. Value from dictionary CMMD |
| role\_id | int | 4 | 0-1 | Role’s identifier |
| role\_name | string | 200 | 0-1 | Role’s name |
| error | complex |  | 0-\* | It contains data error that occurred during processing the parent element |
| user\_group | | | | |
| group\_id | int | 8 | 1-1 | Group identifier |
| user\_link\_flag | int | 1 | 1-1 | User attachment flag |
| error | | | | |
| error\_code | string | 200 | 1-1 | Error code |
| error\_desc | string | 2000 | 1-1 | Description |
| error\_element | string | 200 | 1-1 | XML tag of error origin |
| error\_details | string | 2000 | 0-1 | Additional information |

APPLICATIONS

Tag is used as the root tag in a file for off-line mode. It contains the one or more applications (tag APPLICATION).

APPLICATION

Tag contains a complete one application. It is the root tag in the case of online transferring application via a web service.

APPLICATION\_ID

The unique identifier of the application in SmartVista.

APPLICATION\_NUMBER

The unique identifier of the external application. For synchronization between SmartVista and the external system which is original system for application.

APPLICATION\_DATE

Date when an application was created in an external system.

APPLICATION\_TYPE

Type of an application.

| Code | Description |
| --- | --- |
| APTPUMGT | User management application |

APPLICATION\_FLOW\_ID

Business process that is used for application registration. It defines the final structure of tags (set of mandatory fields, default values, etc.). So it describes the application destination – action that will be executed as a result of the application processing.

| Code | Description |
| --- | --- |
| 1301 | Create user |
| 1302 | Change user |
| 1303 | Change user’s status |
| 1304 | Change user’s roles |

APPLICATION\_STATUS

Status of application in which it is created in the system. Depends on the status, an application is processed immediately after importing, or it requires an additional verification by an operator.

|  |  |
| --- | --- |
| Code | Description |
| APST0001 | Just created |
| APST0002 | Awaiting confirmation |
| APST0003 | Awaiting correction |
| APST0004 | Awaiting checking |
| APST0005 | Further information requested |
| APST0006 | Awaiting processing |
| APST0007 | Processed successfully |
| APST0008 | Processing failed |

INSTITUTION\_ID

It is an institution (bank, processing center) identifier in SmartVista. Within the institution the application will be processed.

OPERATOR\_ID

System name (identifier) of the user who created the application. It is used as an additional description for the audit.

COMMAND

Description of the action that should be done over the described in parent tag object. It depends on the object presence in the system. Each command defines the actions for both cases (found / not found). Objects are searching by different parameters (basically it is the unique identification number of objects). The list of actions is fixed and determined by the dictionary value. They are the following: to create or continue processing, create or update, create or cause an error, update or cause an error, remove or cause an error, cause an error or continue processing.

| Code | Description |
| --- | --- |
| CMMDCREX | Create or cause an error |
| CMMDCRPR | Create or continue processing |
| CMMDCRUP | Create of update |
| CMMDEXPR | Cause an error or continue processing |
| CMMDEXRE | Cause an error or remove (close, deactivate) |
| CMMDEXUP | Cause an error or update |

USER

Complex tag with user’s parameters.

USER\_ID

Identifier of a user that should be processed.

USER\_NAME

Name of a user that should be processed. To identify a user in the system either USER\_ID or USER\_NAME should be specified.

PASSWORD\_HASH

Hash value of a user’s password. Smartvista calculates SHA-1 hash for a user’s password during logging in via web-interface. So that this field should contain SHA-1 hash value for a password that is associated with a user.

USER\_STATUS

User’s status, it is a dictionary value.

|  |  |
| --- | --- |
| Code | Description |
| USSTACTV | Active |
| USSTNOAC | Inactive |

PERSON

Complex tag with person’s parameters (individual person).

PERSON\_TITLE

Appeal to the person (title). Tag is defined by the dictionary that can be extended with new values. Example: Gentleman, Madam, Sir, Doctor, etc.

|  |  |
| --- | --- |
| Code | Description |
| PTTLMSTR | Sir |
| PTTLMRSS | Madam |

PERSON\_NAME

The tag of complex type that contains a structured (by components) person's name. The tag is a multilanguaged and can be the person's name in several languages at the same time, the person's identity remains a single. It requires the LANGUAGE attribute with the possible values:

|  |  |
| --- | --- |
| Код | Description |
| LANGENG | English |
| LANGRUS | Russian |

SURNAME

Person surname in the language that was set in the PERSON\_NAME parent tag.

FIRST\_NAME

Person name in the language that was set in the PERSON\_NAME parent tag.

SECOND\_NAME

Person patronymic in the language that was set in the PERSON\_NAME parent tag.

SUFFIX

Person suffix name for further identifying it. The tag values are determined by the dictionary, which can be extended with new values. Example: Jr., senior, I, II, etc.

|  |  |
| --- | --- |
| Code | Description |
| PSFXJUNR | Junior |
| PSFXSENR | Senior |
| PSFXFRST | I |
| PSFXSCND | II |

BIRTHDAY

Person’s date of his/her birth.

PLACE\_OF\_BIRTH

Person's place of birth. Description of the place of birth in a free format.

GENDER

Sex: male, female.

|  |  |
| --- | --- |
| Code | Description |
| GNDRFEML | Female |
| GNDRMALE | Male |

IDENTITY\_CARD

Tag of complex type that contains identification documents parameters.

Identification documents may pertain to an individual person (passport, driver's license) or legal entity (TIN, PSRN, license). The identification document parameters are the identification of persons and companies to identify duplicates and other checks, such as checking the involvement of high crime (terrorism).

ID\_TYPE

Identification certificate type. A list of available types is limited by the customer type: individual or legal person. The values are determined by the dictionary, which can be expanded by adding new values.

| Code | Description |
| --- | --- |
| IDTP0001 | Passport |
| IDTP0002 | Foreign passport |
| IDTP0003 | Military card |
| IDTP0004 | Seafarer's identity card |
| IDTP0005 | Officer's identification certificate |
| IDTP0006 | Citizen interim certificate |
| IDTP0010 | TIN |
| IDTP0011 | PSRN |
| IDTP0012 | RCBIC |
| IDTP0013 | Foreign organization code |
| IDTP0014 | License |
| IDTP0020 | Driver's license |
| IDTP0030 | Social Security Card |
| IDTP0040 | Passport (for foreigners) |
| IDTP0041 | Migration card (for foreigners) |
| IDTP0042 | Residence permit (for foreigners) |
| IDTP0043 | Temporary residence permit (for foreigners) |
| IDTP0044 | Visa (for foreigners) |
| IDTP0045 | National ID |

ID\_SERIES

Identification document series.

ID\_NUMBER

Identification document number. Type, series and number – those parameters are used in a check on the document uniqueness.

ID\_ISSUER

Name of the authorized organization that issued the permit.

ID\_ISSUE\_DATE

Identification certificate date of issue.

ID\_EXPIRE\_DATE

Validity of the ID card.

ID\_DESC

Comments to the document or any additional description in free form.

CONTACT

Complex tag that contains the customer contact data. Can be specified as a child tag to the CUSTOMER and CARDHOLDER ones. Thus, it determines the customer and cardholder contact information. The tag can contain the PERSON and ADDRESS child tags, which describe an additional characteristic of the contact, contact name and contact information for a mailing address in case of communication by post.

CONTACT\_TYPE

Contact type determines the purpose of the contact, for what purposes it can be used (sending notification, delivery of accounts), or just have a descriptive function (work, home). Type of contact is defined by the dictionary that can be expanded with new values.

|  |  |
| --- | --- |
| Code | Description |
| CNTTCEOC | Chief Executive Officer contact |
| CNTTCFOC | Chief Financial Officer contact |
| CNTTPRMC | Main contract |
| CNTTSCNC | Additional contract |

PREFERRED\_LANG

Preferred language of communication. It is used in notification messages for message formation in the target language, as well as just as a reference.

|  |  |
| --- | --- |
| Code | Description |
| LANGENG | English |
| LANGRUS | Russian |

JOB\_TITLE

Position of the contact person. This tag is meaningful for legal entities only. The value of this tag can be as the contact person position (CEO, chief accountant) and the department name (accounting, sales). This tag is in conjunction with the PERSON tag, which can contain the specific name of a contact person or contact can be depersonalized.

| Code | Description |
| --- | --- |
| JTTLDRCT | Director |
| JTTLHDDP | Chief of Branch |
| JTTLMNGR | Manager |
| JTTLOFMN | Office Manager |
| JTTLCHFA | Chief Accountant |
| JTTLACNT | Accountant |

CONTACT\_DATA

Complex tag that combines separate communication methods.

COMMUN\_METHOD

Way of communication. Specifies the communication channel with the client

|  |  |
| --- | --- |
| Code | Description |
| CMNM0001 | Mobile phone |
| CMNM0002 | E-mail |
| CMNM0003 | Post |
| CMNM0004 | Fax |
| CMNM0005 | Skype |
| CMNM0006 | AOL Aim |
| CMNM0007 | Windows Live Messenger |
| CMNM0008 | ICQ Corp |
| CMNM0009 | Yahoo! Messenger |
| CMNM0010 | Jabber |
| CMNM0011 | Telex |

COMMUN\_ADDRESS

Customer ID for the connection in the corresponding channel (phone number, e-mail address, mailing address, etc.)

START\_DATE

Starting date of validity of contact data.

END\_DATE

Ending date of validity of contact data.

USER\_INST

INSTITUTION\_ID

Institution (bank, processing center) identifier in SmartVista. It defines an institution that will be associated with a new user that is described in the parent block USER.

IS\_ENTIRELY

Flag defines if a user is granted to access to all institution’s agents.

USER\_AGENT

AGENT\_ID

Agent (branch bank) identifier in SmartVista. Within the agent the customer contract (account) is opened. This parameter is optional. If bank does not use by agents customer division then the default value will be set automatically.

AGENT\_NUMBER

Agent (branch bank) external number. This parameter is optional and should be used as an alternative for AGENT\_ID. If bank does not use by agents customer division then the default value will be set automatically.

IS\_DEFAULT

Default flag for a user’s agent.

USER\_ROLE

COMMAND

For this block only 2 commands are allowed, because only a user’s role can be either granted or removed.

| Code | Description |
| --- | --- |
| CMMDCRPR | Create or proceed: grant role to a user if it doesn't exist |
| CMMDPRRE | Proceed or remove: remove role from a user if it exists |

ROLE\_ID

Identifier of a role that is granted to a user.

ROLE\_NAME

Name of a role that is granted to a user. . To identify a role in the system either ROLE\_ID or ROLE\_NAME should be specified.

ERROR

ERROR\_CODE

Symbolic error code.

ERROR\_DESC

Human-readable description of error.

ERROR\_ELEMENT

XML tag being processed when error was raised.

ERROR\_DETAILS

Additional parameters and values for error clarification. Each type of error may use different set of parameters.

|  |  |
| --- | --- |
| Code | Description |
|  |  |