Malayan Banking Berhad

Web Service Integration Technical Specification for Centralized Authentication System

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Prepared By:



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			Services	Services	Services
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		verify OTP after registration			
		Add SSO password			
		character allowable during			
		password verifications			
		Amend field length validation			
		to cater for CMS			
		requirement			

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1 Introduction

This document describes the technical documentation of Centralized Authentication System (CAS) web service being introduced to Maybank Cash Management System, Trade Finance System and Custody System. This document will be updated when new changes on requirements are applied and agreed across all parties. It includes the following details:

No.	Business Process	Functionality
1.	User Creation	Create user
		Query user profile
		Add user access rights
2.	First Time Login	First time login
		Force reset password
		Assign VASCO token
		 Self VASCO registration with OTP verification
3.	Login	Normal login
4.	Company	Query company name
		Query company profile
		Update company name
		Update company profile
5.	User Maintenance	Update user profile
		Change authentication mode
		Remove user access rights
		 Remove VASCO token ownership
		Reset password
		Change password
		Verify Token OTP
		Enable user status

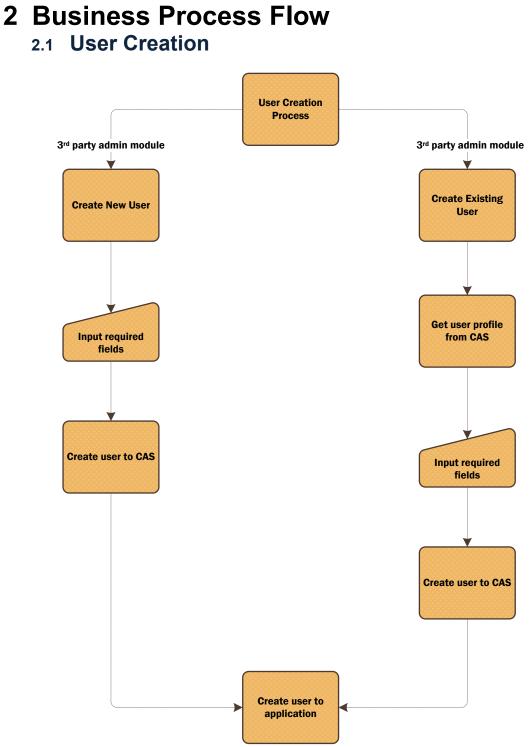
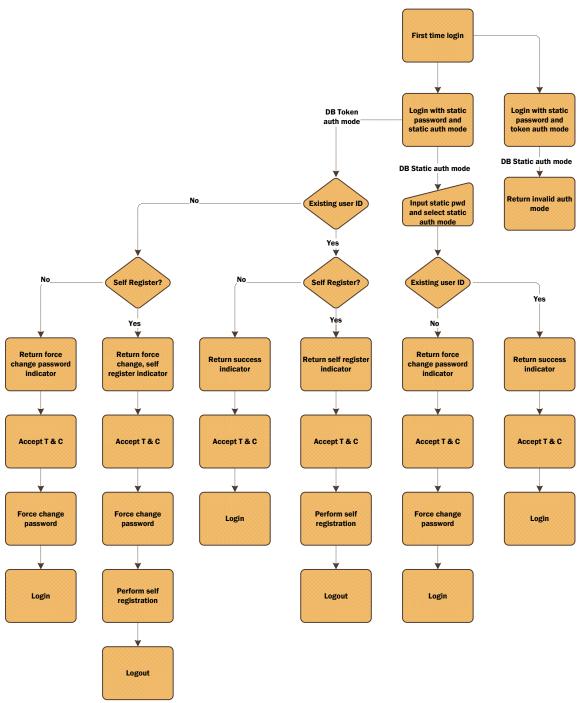
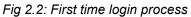


Fig 2.1: User creation process

2.2 First Time Login





2.3 Normal Login

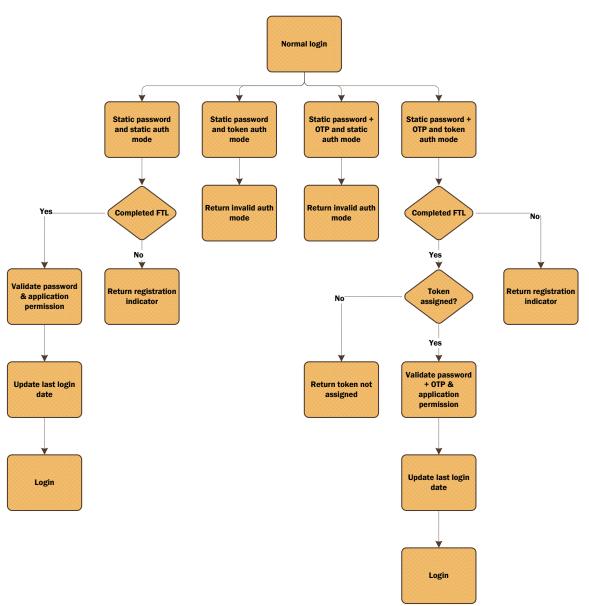


Fig 2.3: Normal login process

3 CAS Web Services

USER CREATION

Create User (wsCreateUser) 3.1

Create user is an administrative function. It is used by bank administrator to perform user creation via 3rd party administration application. It is invoked upon mandatory fields are met to create a new user in CAS. The event will create a new user in CAS that is pending for first time registration on the assigned application. Existing CAS user will need to add access rights in order to access a different application. It is detailed in section 3.3. Each field will be explained in greater detail during its sub chapter.

3.1.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	userID	AN	Y	10	-
4.	password	ANSC	Y	-	-
5.	companyID	AN	Y	10	-
6.	userName	ANSCP	Y	40	-
7.	userIdentification	AN	Y	40	-
8.	email	ANSC	Y	100	-
9.	mobileNo	N	Y	40	-
10.	countryCode	A	Y	2	-
11.	internalUserIndi	A	Y	1	l or E
12.	autoSendIndi	A	Y	1	B or R or P or N
13.	authMode	A	Y	1	T or S
14.	applicationID	N	Y	3	Provided

Fields Description

Field: adminID

This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

Required This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: userID

This field describes the ID to be used during user creation. It may contain alphabets or numbers without white space. This field will be checked for uniqueness during the creation process and will be used as the login ID via login portal of each 3rd party application.

Field: password

This field describes the password to be used during user creation. It must have a minimum length of 5 characters and may contain alphabets or numbers or symbols without white space. A random password will be generated in CAS if blank is provided. This is to facilitate the notification services through SMS. This field will be checked for password complexity rule during the creation process and will be used as the login password via login portal of each 3rd party application.

Field: companyID

This field describes the corporate ID belongs to the new user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Required

Required

Required

Field: userName

This field describes the full name belongs to the new user. It may contain alphabets, numbers or symbols with white space. This field will be stored as updatable information.

Field: userIdentification

This field describes the I.C number or passport number belongs to the new user. It may contain alphabets or numbers. This field will be stored as updatable information.

Field: email

This field describes the valid email address belongs to the new user. It may contain alphabets, numbers or symbol (specifically '@'). This field will be stored as updatable information and to be used for notification services.

Field: mobileNo

This field describes the valid mobile number belongs to the new user. It may contain numbers only. This field will be stored as updatable information and to be used for notification services.

Field: countryCode

This field describes the country of origin belongs to the new user. It may contain alphabets only. This field will be stored as updatable information.

Field: internalUserIndi

This field describes the user type belongs to the new user. Internal users are referring to Maybank bank administrators while external users are referring to 3rd party application users. Internal users are represented by 'I' while external users are represented by 'E'. It may contain alphabets only. This field will be stored as updatable information. This indicator is used to differentiate the dormant/password expiry period between bank users and customers.

Field: autoSendIndi

This field describes Auto sending mode of SMS or email belongs to the new user. This feature will trigger an SMS or email send service to notify the success of user creation. If 'R' is used, CAS will trigger an SMS and email send. If 'B' is used, CAS will keep this record to be placed as a pending activation item in CAS Administration. If 'N' is used, no services will be triggered. If 'P' is used, CAS will keep this record to be placed as a pending item to be printed out in Pin Mailer system. It may contain alphabets only. This field will be stored as updatable information.

Field: authMode

This field describes authentication mode belongs to the new user. This feature will identify the authentication mode of either Static or Token. Static mode is represented by 'S' while Token mode is represented by 'T'. It may contain alphabets only. This field will be stored as updatable information.

Field: applicationID

This field describes application ID assigned to the new user which is similar to the application that creates the user. It may contain numbers only. This field will be stored as updatable information. It is provided by CAS.

Required

Required

Required

Required

Required

Required

Required

Required

3.1.2 Response

No.	Value	Description
1.	Response Code	Numeric response from CAS (refer Response Code)

3.1.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description		
0	Successful		
11	User ID has been used. Please choose a new one.		
96	Password does not comply not contain a combination of upper case, lower		
	case, number and special character.		
97	Invalid required input		
98	System is currently not available		
206	Invalid user creation dependency (refer 3.1.4)		

3.1.4 Allowable Conditions

CAS will perform user creation based on the following conditions. A response code of 206 will be returned if the conditions are not met.

Description	Auto Send	Process
	Ν	CAS to create accordingly and no sending triggered.
Manual password input	R	Not allowed
input	В	Not allowed
	Р	Not allowed
	R	CAS to create accordingly and will trigger sending of both SMS and email
System	В	CAS to create accordingly and place item in batch activation by CAS admin
generated	Ν	Not allowed
	Р	CAS to create accordingly and place item in pin mailer queue

3.1.5 Sample Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<soapenv:Body>
<wsCreateUserResponse xmlns="http://upass.cas.ws.my">
<wsCreateUserResponse xmlns="http://upass.cas.ws.my">
</wsCreateUserResponse xmlns="http://upass.cas.ws.my"></wsCreateUserResponse xmlns="http://upass.cas.ws.my"></wsCreateUserResponse xmlns="http://wsCreateUserResponse>
</wsCreateUserResponse>
```

Query User Profile (wsQueryUserProfile) 3.2

Query User Profile is an administrative function. This feature is used to perform user inquiry on a specified user ID using 3rd party application administration module. It is used by bank administrator. The event will return a user profile based on the requested userID. Each field will be explained in greater detail during its sub chapter.

3.2.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	userID	ANSC	Y	10	-
4.	companyID	AN	Y	10	-
5.	applicationID	N	Y	3	Provided

Fields Description

Field: adminID

Required This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: userID

Required This field describes the ID to be used for query. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

3.2.2 Response

<msgheader> 1. <responsecode> Numeric response from CAS (refer Response Code) </responsecode></msgheader> <msgbody> 1. <userid< td=""> userID to be echoed back to application. 2. <userstatus> Status of user which is New, Active, Dormant and Disable 3. <companyid> Unique corporate identifier that the user belongs to 4. <username> User full name 5. <icpassport> User full name 6. <email> User full name 6. <email> User full name 7. <mobileno> User email address 7. <mobileno> User country of origin 9. <internaluserindi> Internal or external indicator of the user 10. <authmode> User auto send mode of SMS or email 11. <autosendindi> User access rights echoed back to the application 12. <application> User VASCO token serial number if available User VASCO token serial number if available</application></autosendindi></authmode></internaluserindi></mobileno></mobileno></email></email></icpassport></username></companyid></userstatus></userid<></msgbody>	No.	Field	Description			
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4. <username>User full name5.<icpassport>User full name6.<email>User email address7.<mobileno>User mobile number8.<countrycode>User country of origin9.<internaluserindi>Internal or external indicator of the user10.<authmode>User authentication mode11.<autosendindi>User auto send mode of SMS or email12.<application>User VASCO token serial number if available</application></autosendindi></authmode></internaluserindi></countrycode></mobileno></email></icpassport></username>	2.	<userstatus></userstatus>	Status of user which is New, Active, Dormant and Disable			
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7. <mobileno>User mobile number8.<countrycode>User country of origin9.<internaluserindi>Internal or external indicator of the user10.<authmode>User authentication mode11.<autosendindi>User auto send mode of SMS or email12.<application>User access rights echoed back to the application13.<tokenserial>User VASCO token serial number if available</tokenserial></application></autosendindi></authmode></internaluserindi></countrycode></mobileno>	5.	<icpassport></icpassport>	User I.C number or passport number			
8. <countrycode> User country of origin 9. <internaluserindi> Internal or external indicator of the user 10. <authmode> User authentication mode 11. <autosendindi> User auto send mode of SMS or email 12. <application> User access rights echoed back to the application 13. <tokenserial> User VASCO token serial number if available</tokenserial></application></autosendindi></authmode></internaluserindi></countrycode>	6.	<email></email>	User email address			
9. <internaluserindi>Internal or external indicator of the user10.<authmode>User authentication mode11.<autosendindi>User auto send mode of SMS or email12.<application>User access rights echoed back to the application13.<tokenserial>User VASCO token serial number if available</tokenserial></application></autosendindi></authmode></internaluserindi>	7.	<mobileno></mobileno>	User mobile number			
10. <authmode>User authentication mode11.<autosendindi>User auto send mode of SMS or email12.<application>User access rights echoed back to the application13.<tokenserial>User VASCO token serial number if available</tokenserial></application></autosendindi></authmode>	8.	<countrycode></countrycode>	User country of origin			
11. <autosendindi>User auto send mode of SMS or email12.<application>User access rights echoed back to the application13.<tokenserial>User VASCO token serial number if available</tokenserial></application></autosendindi>	9.	<internaluserindi></internaluserindi>	Internal or external indicator of the user			
12. <application>User access rights echoed back to the application13.<tokenserial>User VASCO token serial number if available</tokenserial></application>	10.	<authmode></authmode>	User authentication mode			
13. <tokenserial> User VASCO token serial number if available</tokenserial>	11.	<autosendindi></autosendindi>	User auto send mode of SMS or email			
	12.	<application></application>				
	13.	<tokenserial></tokenserial>	User VASCO token serial number if available			
	<th colspan="5"></th>					

3.2.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below. If the response is other than successful, no message body will be returned.

Response Code	Description
0	Successful
6	User not found
20 User has been deleted	
97 Invalid required input	
98 System is currently not available	

3.2.4 Sample Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <soapenv:Body>
        <wsQueryUserProfileResponse xmIns="http://upass.cas.ws.my">
            <wsQueryUserProfileReturn>
                 <msg>
                     <msgHeader>
                         <responseCode>0</responseCode>
                     </msgHeader>
                     <msgBody>
                         <userID>MAYBANKTESTSERVICEUSER</userID>
                         <userStatus>NEW</userStatus>
                         <companyID>MAYBANK</companyID>
                         <userName>test Service User</userName>
                         <icPassport>11111111</icPassport>
                         <email>mail@mail.com</email>
                         <mobileNo>0111111111</mobileNo>
                         <countryCode>MY</countryCode>
                         <internalUserIndi>I</internalUserIndi>
                         <authMode>S</authMode>
                         <autoSendIndi>N</autoSendIndi>
                         <application>101</application>
                         <tokenSerial />
                     </msgBody>
                 </msg>
            </wsQueryUserProfileReturn>
        </wsQueryUserProfileResponse>
    </soapenv:Body>
</soapenv:Envelope>
```

3.3 Query User Profile Map

(wsQueryUserProfileMap)

Query User Profile is an administrative function. This feature is used to perform user inquiry on a specified user ID using 3rd party application administration module. It is used by bank administrator. The event will return a user profile based on the requested userID. Each field will be explained in greater detail during its sub chapter.

3.3.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	userID	ANSC	Y	10	-
4.	companyID	AN	Y	10	-
5.	applicationID	N	Y	3	Provided

Fields Description

Field: adminID

Required This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: userID

This field describes the ID to be used for query. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

Required

Required

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3.3.2 Response

No.	Field	Description
1.	responseCode	Numeric response from CAS (refer Response Code)
2.	userID	userID to be echoed back to application.
3.	userStatus	Status of user which is New, Active, Dormant and Disable
4.	companyID	Unique corporate identifier that the user belongs to
5.	userName	User full name
6.	icPassport	User I.C number or passport number
7.	email	User email address
8.	mobileNo	User mobile number
9.	countryCode	User country of origin
10.	internalUserIndi	Internal or external indicator of the user
11.	authMode	User authentication mode
12.	autoSendIndi	User auto send mode of SMS or email
13.	application	User access rights echoed back to the application
14.	tokenSerial	User VASCO token serial number if available

3.3.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below. If the response is other than successful, no message body will be returned.

Response Code	Description
0	Successful
6	User not found
20 User has been deleted	
97 Invalid required input	
98	System is currently not available

3.4 Add User Application Access

(wsGrantUserAccess)

Add User Application Access is and administrative function. It is used to update user access matrix for existing user ID that wish to access different application. The event will add an access rights to the desired application in order to login through 3rd party application login portal. Each field will be explained in greater detail during its sub chapter.

3.4.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	userID	ANSC	Y	10	-
4.	companyID	AN	Y	10	-
5.	applicationID	N	Y	3	Provided

Fields Description

Field: adminID

This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: userID

Required This field describes the ID to be used for adding of access rights. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: companyID

Required This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

3.4.2 Response

No.	Value	Description
1.	Response Code	Numeric response from CAS (refer Response Code)

Required

Required

3.4.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
6	User not found
97	Invalid required input
98	System is currently not available

3.4.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema" <soapenv:Body> <wsGrantUserAccessResponse xmlns="http://upass.cas.ws.my"> <wsGrantUserAccessResponse xmlns="http://upass.cas.ws.my"> </wsGrantUserAccessResponse xmlns="http://upass.cas.ws.my"></www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</www.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</wow.ws.my"</w

FIRST TIME REGISTRATION

3.5 Self Register VASCO Token

(wsSelfRegisterVASCOToken)

Self Register VASCO Token is a user function. It is used to allow user to self register VASCO token based on the device's serial number and generated One Time Password (OTP). CAS will perform assignment of the VASCO token and verification of OTP. In case of OTP verification failure, CAS will perform reversal which is VASCO token revocation. The event will return a response to 3rd party application. Each field will be explained in greater detail during its sub chapter.

3.5.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	tokenSerial	N	Y	10	-
4.	userID	AN	Y	10	-
5.	companyID	AN	Y	10	-
6.	tokenOTP	N	Y	8	-
7.	applicationID	N	Y	3	Provided

Fields Description

Field: adminID

Required This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: tokenSerial

This field describes the token serial number of the device. It may contain numbers only.

Field: userID

This field describes the ID belongs to the user. Token will be assigned from this ID. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space.

Field: tokenOTP

This field describes the dynamic OTP generated by VASCO token held by the user. It must have a length of 8 digits and contain numbers only. This field will be checked for validity during authentication process and will be used as the 2rd factor authentication of each 3rd party application.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

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Required

Required

Required

Required

Required

3.5.2 Response

No.	Value	Description
1.	Response Code	Numeric response from CAS (Refer Response Code)

3.5.3 Response Code This service requires system authentication which has additional response codes as per <u>System</u> Authorization Response Code Mapping. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
8	Token has been used by another ID
9	Token does not exist
30	Invalid OTP
31	Exceeded max attempts of OTP
32	OTP has been previously used
33	Invalid token status
97	Invalid required input
98	System is current not available
99	System is current not available

3.6 First Time Login (wsVerifyFirstTimeLogin)

First Time Login function is a user function. It is used to perform first time registration process in order to determine the necessity to force change password or assign token. The event will return indicators to alert for force change password, perform self-registration or both. Each field will be explained in greater detail during its sub chapter.

3.6.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	userID	AN	Y	10	-
2.	password	ANSCS	Y	-	-
3.	userTokenOTP	N	0	8	Device generated
4.	authMode	A	Y	1	-
5.	companyID	AN	Y	10	-
6.	applicationID	N	Y	3	Provided

Fields Description

Field: userID

This field describes the ID belongs to the user. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: password

This field describes the static password to be used to login. It must have a minimum length of 5 characters and may contain alphabets or numbers or symbols without white space. This field will be checked for password complexity rule during the authentication process and will be used as the login password via login portal of each 3rd party application.

Field: userTokenOTP

This field describes the dynamic OTP generated by VASCO token held by the user. It must have a length of 6 digits and contain numbers only. This field will be checked for validity during authentication process and will be used as the login OTP via login portal of each 3rd party application.

Field: authMode

This field describes authentication mode belongs to the user. This feature will identify the authentication mode of either Static or Token. Static mode is represented by 'S' while Token mode is represented by 'T'. It may contain alphabets only. This field will be stored as updatable information.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

3.6.2 Response

No.	Value	Description
1.	Response Code	Numeric response from CAS (Refer Response Code)

3.6.3 Response Code

CAS will return a response code for this service as per below. For response code of **202**, 3rd party

Required

Required

Required

Required

Required

application needs to confirm subsequent request has to be fulfilled prior granting user to access to application. E.g. for **202**, application needs to confirm that reset password and self registration has been completed with success prior proceed to home screen.

Response Code	Description			
0	Successful			
1	Wrong user ID or password			
2	Exceeded maximum login attempts			
5	Invalid user status			
6	User not found			
10	Invalid access to application			
21	User is locked			
22	User is inactive			
30	Invalid OTP			
31	Exceeded max attempts of OTP			
32	OTP has been previously used			
33	Invalid token status			
96	Password does not contain a combination of upper case, lower case, number and special character			
97	Invalid required input			
98	System is current not available			
99	System is current not available			
200	Reset password is required			
201	Self registration of VASCO token is required			
202	Reset password and self registration of VASCO token is required			
203	Invalid authentication mode			

3.6.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <soapenv:Body> <wsVerifyFirstTimeLoginResponse xmlns="http://upass.cas.ws.my"> <wsVerifyFirstTimeLoginResponse xmlns="http://upass.cas.ws.my"> <wsVerifyFirstTimeLoginResponse xmlns="http://upass.cas.ws.my"> </wsVerifyFirstTimeLoginResponse xmlns="http://upass.cas.ws.my"> </wsVerifyFirstTimeLoginResponse xmlns="http://upass.cas.ws.my"> </wsVerifyFirstTimeLoginResponse xmlns="http://upass.cas.ws.my"> </wsVerifyFirstTimeLoginResponse xmlns="http://upass.cas.ws.my"> </wsVerifyFirstTimeLoginResponse xmlns="http://wsVerifyFirstTimeLoginReturn"> </wsVerifyFirstTimeLoginResponse xmlns="http://wsVerifyFirstTimeLoginReturn"> </wsVerifyFirstTimeLoginResponse xmlns="http://wsVerifyFirstTimeLoginReturn"> </wsVerifyFirstTimeLoginResponse xmlns="http://wsVerifyFirstTimeLoginReturn"> </wsVerifyFirstTimeLoginResponse xmlns="http://wsVerifyFirstTimeLoginReturn"> </wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn"></wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn"></wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn"></wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTimeLoginReturn</wsVerifyFirstTi

3.7 Force Reset Password

(wsForceChangeStaticPassword)

Force Reset Password function is a user function. It is used to reset password during first time login based on its indicators returned to 3rd party application. The event will perform password reset in CAS and a response will be return. This service shall be invoked if response code is '200' or '202' during wsVerifyFirstTimeLogin or wsVerifyNormalLogin. Each field will be explained in greater detail during its sub chapter.

3.7.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	userID	AN	Y	10	-
2.	newPassword	ANSC	Y	-	-
3.	oldPassword	ANSCS	Y	-	-
4.	companyID	AN	Y	10	-
5.	applicationID	N	Y	3	Provided

Fields Description

Field: userID

Required This field describes the ID belongs to the user. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: newPassword

This field describes the new static password to be used to login. It must have a minimum length of 5 characters and may contain alphabets or numbers or symbols without white space. This field will be checked for password complexity rule and history list during the change password process and will be used as the new login password via login portal of each 3rd party application.

Field: oldPassword

This field describes the existing valid static password to be used to login. It must have a minimum length of 5 characters and may contain alphabets or numbers or symbols without white space. This field will be checked for password complexity rule during the authentication process and will be used as the login password via login portal of each 3rd party application.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

Required

3.7.2 Response

No.	Value	Description
1.	Response Code	Numeric response from CAS (refer Response Code)

3.7.3 Response Code

CAS will return a response code for this service as per below:

Response Code	Description			
0	Successful			
1	Wrong user ID or password			
2	Exceeded maximum login attempts			
3	Password has been previously used			
6	User not found			
96 Password does not contain a combination of upper case, lower c number and special character				
97	Invalid required input			
98	System is current not available			

3.7.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"

xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>

<wsForceChangeStaticPasswordResponse</pre>

xmlns="http://upass.cas.ws.my">

<wsForceChangeStaticPasswordReturn>97</wsForceChangeStaticPasswordReturn>
</wsForceChangeStaticPasswordResponse>

</soapenv:Body>

</soapenv:Envelope>

Assign VASCO Token (wsAssignVASCOToken) 3.8

Assign Token is a token management function. It is used to assign token for a specified user where self registration is needed. The event will allow CAS to assign token for the specified userID based on the provided serialNumber. Each field will be explained in greater detail during its sub chapter.

3.8.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	serialNumber	N	Y	10	-
4.	userID	ANSC	Y	10	-
5.	companyID	AN	Y	10	-
6.	applicationID	N	Y	3	Provided

Fields Description

Field: adminID

This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

Required This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: serialNumber

This field describes the 10 digit VASCO token serial number to be assigned to the user. It may contain numbers. This field will be check for integrity rules during the assignment process.

Field: userID

This field describes the ID belongs to the user. Token will be assigned to this ID. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

Required

Required

3.8.2 Response

No.	Value	Description
1.	Response Code	Numeric response from CAS (Refer Response Code)

3.8.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description
0 Successful	
8	VASCO token has been assigned and in used
9 VASCO token not found	
33 Invalid token status	
97	Invalid required input
98 System is current not available	
99	System is current not available

3.8.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>

</soapenv:Envelope>

3.9 Normal Login (wsVerifyNormalLogin)

Normal Login is a user function. It is used to verify user ID and password or user ID, password and OTP based on authentication mode. The event will authenticate user credentials and returns a response to 3rd party application. Each field will be explained in greater detail during its sub chapter.

3.9.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	userID	AN	Y	10	-
2.	password	ANSCS	Y	-	-
3.	userTokenOTP	N	0	8	Device generated
4.	authMode	A	Y	1	-
5.	companyID	AN	Y	10	-
6.	applicationID	N	Y	3	Provided

Fields Description

Field: userID

This field describes the ID belongs to the user. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: password

This field describes the static password to be used to login. It must have a minimum length of 5 characters and may contain alphabets or numbers or symbols without white space. This field will be checked for password complexity rule during the authentication process and will be used as the login password via login portal of each 3rd party application.

Field: userTokenOTP

This field describes the dynamic OTP generated by VASCO token held by the user. It must have a length of 6 digits and contain numbers only. This field will be checked for validity during authentication process and will be used as the login OTP via login portal of each 3rd party application.

Field: authMode

This field describes authentication mode belongs to the user. This feature will identify the authentication mode of either Static or Token. Static mode is represented by 'S' while Token mode is represented by 'T'. It may contain alphabets only. This field will be stored as updatable information.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

Required

Required

Required

3.9.2 Response

No.	Value	Description
1.	Response Code	Numeric response from CAS (Refer Response Code)

3.9.3 Response Code

CAS will return a response code for this service as per below. For response code of 202, 3rd party application needs to confirm subsequent request has to be fulfilled prior granting user to access to application. E.g. for 202, application needs to confirm that reset password and self registration has been completed with success prior proceed to home screen.

Response Code	Description	
0	Successful	
1	Wrong user ID or password	
2	Exceeded maximum login attempts	
5	Invalid user status	
6	User not found	
10	Invalid access to application	
21	User is locked	
22	User is inactive	
30	Invalid OTP	
31	Exceeded max attempts of OTP	
32 OTP has been previously used		
33	Invalid token status	
96 Password does not contain a combination of upper case,		
number and special character		
97	Invalid required input	
98	System is current not available	
99	System is current not available	
200	Reset password is required	
201	Self registration of VASCO token is required	
202	Reset password and self registration of VASCO token is required	
203	Invalid authentication mode	
204	Registration not completed. Proceed to first time login.	

3.9.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <soapenv:Body> <wsVerifyNormalLoginResponse xmlns="http://upass.cas.ws.my"> <wsVerifyNormalLoginReturn>0</wsVerifyNormalLoginReturn> </wsVerifyNormalLoginResponse> </soapenv:Body>

</soapenv:Envelope>

COMPANY 3.10 Query Company Name (wsQueryCompany)

Query Company Name is an administrative function. It is used to obtain the company name based on the requested companyID. It is used by bank administrator during company creation at 3rd party application administration. The event will return the company name of the request companyID or blank if company is not available. Each field will be explained in greater detail during its sub chapter.

3.10.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	companyID	AN	Y	10	-
4.	applicationID	ANSC	Y	3	Provided

Fields Description

Field: adminID

Required This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: companyID

This field describes the corporate ID to be used in the query. It may contain alphabets or numbers without white space.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

3.10.2 Response

No.	Field	Description
<msg></msg>		
<msghe< th=""><th>ader></th><th></th></msghe<>	ader>	
1.	<responsecode></responsecode>	Numeric response from CAS (refer Response Code)
msgH</th <th>leader ></th> <th></th>	leader >	
<msgbo< th=""><td>ody></td><td></td></msgbo<>	ody>	
1.	<companyname></companyname>	Full name of requested company.
<th>ody></th> <th></th>	ody>	
	-	

Required

Required

3.10.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
97	Invalid required input
98	System is current not available

3.10.4 Sample Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <soapenv:Body>
        <wsQueryCompanyResponse xmlns="http://upass.cas.ws.my">
            <wsQueryCompanyReturn>
                <msg>
                    <msgHeader>
                        <responseCode>0</responseCode>
                    </msgHeader>
                    <msgBody>
                        <companyName>Maybank Berhad</companyName>
                    </msgBody>
                </msg>
            </wsQueryCompanyReturn>
        </wsQueryCompanyResponse>
    </soapenv:Body>
</soapenv:Envelope>
```

3.11 Query Company Name Map

(wsQueryCompanyMap)

Query Company Name is an administrative function. It is used to obtain the company name based on the requested companyID. It is used by bank administrator during company creation at 3rd party application administration. The event will return the company name of the request companyID or blank if company is not available. Each field will be explained in greater detail during its sub chapter.

3.11.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	companyID	AN	Y	10	-
4.	applicationID	ANSC	Y	3	Provided

Fields Description

Field: adminID

Required This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: companyID

This field describes the corporate ID to be used in the query. It may contain alphabets or numbers without white space.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

3.11.2 Response

No.	Field	Description		
1.	responseCode	Numeric response from CAS (refer Response Code)		
2.	companyName	Full name of requested company.		

Required

Required

3.11.3 Response Code This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
97 Invalid required input	
98	System is current not available

3.12 Update Company Name (wsUpdateCompanyName)

Update Company Name is an administrative function. It is used to update the company name based on the requested companyID. It is used by bank administrator during company name update is required at 3rd party application administration. The event will return a response to 3rd party application. Each field will be explained in greater detail during its sub chapter.

3.12.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	companyID	AN	Y	10	-
4.	companyName	ANSCP	Y	35	-
5.	applicationID	ANSC	Y	3	Provided

Fields Description

Field: adminID

Required This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: companyID

This field describes the corporate ID to be updated. It may contain alphabets or numbers without white space.

Field: companyName

This field describes the corporate name to be updated. It may contain alphabets or numbers without white space.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

3.12.2 Response

No. Value		Description
1.	Response Code	Numeric response from CAS (Refer Response Code)

3.12.3 Response Code

This service requires system authentication which has additional response codes as per System Authorization Response Code Mapping. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
97 Invalid required input	
98	System is current not available

Required

Required

Required

3.12.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <soapenv:Body> <soapenv:Body> <wsUpdateCompanyNameResponse xmlns="http://upass.cas.ws.my"> <wsUpdateCompanyNameResponse xmlns="http://upass.cas.ws.my"> </wsUpdateCompanyNameResponse xmlns="http://upass.cas.ws.my"> </wsUpdateCompanyNameResponse xmlns="http://upass.cas.ws.my"> </wsUpdateCompanyNameResponse xmlns="http://upass.cas.ws.my"> </wsUpdateCompanyNameResponse xmlns="http://upass.cas.ws.my"> </wsUpdateCompanyNameResponse xmlns="http://wsUpdateCompanyNameReturn> </wsUpdateCompanyNameResponse> </soapenv:Body> </soapenv:Envelope>

3.13 Query Company Profile

(wsQueryCompanyProfile)

Query Company Profile is an administrative function. It is used to obtain the company name based on the requested companyID. It is used by bank administrator during company creation at 3rd party application administration. The event will return the company profile of the request companyID or blank if company is not available. Each field will be explained in greater detail during its sub chapter.

3.13.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	companyID	AN	Y	10	-
4.	applicationID	ANSC	Y	3	Provided

Fields Description

Field: adminID

Required This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: companyID

This field describes the corporate ID to be used in the query. It may contain alphabets or numbers without white space.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

3.13.2 Response

No.	Field	Description
<msg></msg>		
<msghea< th=""><th>ader></th><th></th></msghea<>	ader>	
1.	<responsecode></responsecode>	Numeric response from CAS (refer Response Code)
msgHe</th <th>eader ></th> <th></th>	eader >	
<msgbo< th=""><th>dy></th><th></th></msgbo<>	dy>	
1.	<companyname></companyname>	Full name of requested company.
2.	<companyaddr1></companyaddr1>	Company address line 1
3.	<companyaddr2></companyaddr2>	Company address line 2
4.	<companyaddr3></companyaddr3>	Company address line 3
5.	<companyaddr4></companyaddr4>	Company address line 4
6.	<companyaddr5></companyaddr5>	Company address line 5
7.	<companypostcode></companypostcode>	Company postcode
8.	<companystate></companystate>	Company state
9.	<companycountrycode></companycountrycode>	Company 2 digit country code
10.	<companycontactno></companycontactno>	Company contact number
11.	<companyfaxno></companyfaxno>	Company fax number
<th>ody></th> <th></th>	ody>	

3.13.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
97	Invalid required input
98	System is current not available

3.13.4 Sample Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <soapenv:Body>
        <wsQueryCompanyProfileResponse xmlns="http://upass.cas.ws.my">
            <wsQueryCompanyProfileReturn>
                <msg>
                    <msgHeader>
                        <responseCode>0</responseCode>
                    </msgHeader>
                    <msgBody>
                        <companyName>SMART CORPORATION</companyName>
                        <companyAddr1>67,JALAN BISTARI</companyAddr1>
                        <companyAddr2>MENARA BISTARI</companyAddr2>
                        <companyAddr3 />
                        <companyAddr4 />
                        <companyAddr5 />
                        <companyPostCode />
                        <companyState>Putrajaya</companyState>
                        <companyCountryCode />
                        <companyContactNo>000000000</companyContactNo>
                        <companyFaxNo />
                    </msgBody>
                </msg>
            </wsQueryCompanyProfileReturn>
        </wsQueryCompanyProfileResponse>
    </soapenv:Body>
</soapenv:Envelope>
```

3.14 Query Company Profile Map

(wsQueryCompanyProfileMap)

Query Company Profile is an administrative function. It is used to obtain the company name based on the requested companyID. It is used by bank administrator during company creation at 3rd party application administration. The event will return the company profile of the request companyID or blank if company is not available. Each field will be explained in greater detail during its sub chapter.

3.14.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	companyID	AN	Y	10	-
4.	applicationID	ANSC	Y	3	Provided

Fields Description

Field: adminID

Required This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: companyID

This field describes the corporate ID to be used in the query. It may contain alphabets or numbers without white space.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

3.14.2 Response

No.	Field	Description
1.	responseCode	Numeric response from CAS (refer <u>Response Code</u>)
2.	companyName	Full name of requested company.
3.	companyAddr1	Company address line 1
4.	companyAddr2	Company address line 2
5.	companyAddr3	Company address line 3
6.	companyAddr4	Company address line 4
7.	companyAddr5	Company address line 5
8.	companyPostCode	Company postcode
9.	companyState	Company state
10.	companyCountryCode	Company 2 digit country code
11.	companyContactNo	Company contact number
12.	companyFaxNo	Company fax number

3.14.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
97	Invalid required input
98	System is current not available

3.15 Update Company Profile

(wsUpdateCompanyProfile)

Update Company Profile is an administrative function. It is used to update the company related details based on the provided companyID. It is used by bank administrator during company profile update is required at 3rd party application administration. The event will return a response to 3rd party application. Each field will be explained in greater detail during its sub chapter.

3.15.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	companyID	AN	Y	10	-
4.	companyName	ANSCP	Y	35	-
5.	companyAddr1	ANSCP	Y	30	-
6.	companyAddr2	ANSCP	Y	30	-
7.	companyAddr3	ANSCP	0	30	-
8.	companyAddr4	ANSCP	0	30	-
9.	companyAddr5	ANSCP	0	30	-
10.	companyPostCode	N	0	15	-
11.	companyState	А	0	60	-
12.	companyCountryCode	А	Y	2	-
13.	companyContactNo	N	Y	20	-
14.	companyFaxNo	N	0	20	-
15.	applicationID	ANSC	Y	3	Provided

Fields Description

Field: adminID

This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: companyID

This field describes the corporate ID to be updated. It may contain alphabets or numbers without white space.

Field: companyName

This field describes the corporate name to be updated. It may contain alphabets or numbers without white space.

Field: companyAddr1

This field describes the corporate address to line 1 to be updated. It may contain alphabets, numbers and special characters with white space.

Field: companyAddr2

This field describes the corporate address to line 2 to be updated. It may contain alphabets, numbers and special characters with white space.

Field: companyAddr3

This field describes the corporate address to line 3 to be updated. It may contain alphabets, numbers and special characters with white space.

Required

Required

Required

Required

Required

Required

Optional

Field: companyAddr4

This field describes the corporate address to line 4 to be updated. It may contain alphabets, numbers and special characters with white space.

Field: companyAddr5

This field describes the corporate address to line 5 to be updated. It may contain alphabets, numbers and special characters with white space.

Field: companyPostCode

This field describes the corporate post code to be updated. It may contain numbers only.

Field: companyState

This field describes the corporate state to be updated. It may contain alphabets only.

Field: companyCountryCode

This field describes the corporate 2 digit country code to be updated. It may contain alphabets only.

Field: companyContactNo

This field describes the corporate phone number to be updated. It may contain number only.

Field: companyFaxNo

This field describes the corporate fax number to be updated. It may contain number only.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

3.15.2 Response

No.	Value	Description	
2.	Response Code	Numeric response from CAS (Refer Response Code)	

3.15.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
97	Invalid required input
98	System is current not available

3.15.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <soapenv:Body> <wsUpdateCompanyProfileResponse xmlns="http://upass.cas.ws.my"> <wsUpdateCompanyProfileResponse xmlns="http://upass.cas.ws.my"> <wsUpdateCompanyProfileResponse xmlns="http://upass.cas.ws.my"> </wsUpdateCompanyProfileResponse xmlns="http://upass.cas.ws.my"></wsUpdateCompanyProfileResponse xmlns="http://upass.cas.ws.my"></wsUpdateCompanyProfileResponse xmlns="http://upass.cas.ws.my"></wsUpdateCompanyProfileResponse xmlns="http://upass.cas.ws.my"></wsUpdateCompanyProfileResponse xmlns="http://wsUpdateCompanyProfileResponse> </wsUpdateCompanyProfileResponse>

</soapenv:Envelope>

Optional

Optional

Optional

Required

Required

Optional

Optional // Required

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USER MAINTENANCE

3.16 Update User Profile (wsUpdateUserProfile)

Update User Profile is an administrative function. It is used to perform user details update based on input fields. It is used by bank administrator to perform user update via 3rd party application administration. The event will allow CAS to update fields that are request and returns a response to 3rd party application. Each field will be explained in greater detail during its sub chapter.

3.16.1 Request

No.	Field	Data Type	Required	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	userID	AN	Y	10	-
4.	userName	AN	0	-	-
5.	userIdentification	AN	0	40	-
6.	email	ANSC	0	100	-
7.	mobileNo	N	0	40	-
8.	countryCode	A	0	2	-
9.	autoSendIndi	A	0	1	B or R or P or N
10.	companyID	AN	Y	10	-
11.	applicationID	N	Y	3	Provided

Fields Description

Field: adminID

This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: userID

This field describes the userID to be updated. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: userName

This field describes the full name to be updated. It may contain alphabets, numbers or symbols with white space. This field will be stored as updatable information. This field will not be updated if left blank.

Field: userIdentification

This field describes the I.C number or passport number to be updated. It may contain alphabets or numbers. This field will be stored as updatable information. This field will not be updated if left blank.

Field: email

This field describes the valid email address to be updated. It may contain alphabets, numbers or symbol (specifically '@'). This field will be stored as updatable information and to be used for notification services. This field will not be updated if left blank.

Field: mobileNo

This field describes the valid mobile number to be updated. It may contain numbers. This field will be stored as updatable information and to be used for notification services. This field will not be updated if left blank.

Required

Required

Required

Optional

Optional

Optional

Optional

Field: countryCode

This field describes the country of origin to be updated. It may contain alphabets only. This field will be stored as updatable information. This field will not be updated if left blank.

Field: autoSendIndi

This field describes Auto sending mode of SMS or email to be updated. This feature will trigger an SMS or email send service to notify the success of user creation. If 'R' is used, CAS will trigger an SMS and email send. If 'B' is used, CAS will keep this record to be placed as a pending activation item in CAS Administration. If 'N' is used, no services will be triggered. If 'P' is used, CAS will keep this record to be placed as a pending item to be printed out in Pin Mailer system. It may contain alphabets only. This field will be stored as updatable information. This field will not be updated if left blank.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

3.16.2 Response

No.	Value	Description
1.	Response Code	Numeric response from CAS (Refer)

3.16.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
6	User not found
97 Invalid required input	
98 System is current not available	
99 System is current not available	
206 Invalid user auto send mode dependency (refer <u>3.1.4</u>)	

3.16.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <soapenv:Body> <wsUpdateUserProfileResponse xmlns="http://upass.cas.ws.my"> <wsUpdateUserProfileResponse xmlns="http://upass.cas.ws.my"> <wsUpdateUserProfileResponse xmlns="http://upass.cas.ws.my"> </wsUpdateUserProfileResponse xmlns="http://upass.cas.ws.my"> </wsUpdateUserProfileResponse> </wsUpdateUserProfileResponse>

Optional

Optional

Required

3.17 Change Authentication Mode

(wsChangeAuthenticationMode)

Change user authentication mode is an administrative feature. It is used to change an external user authentication mode from Static to Token and vice versa. It is used by bank administrator via 3rd party application administration. The event will allow CAS to change the authentication mode and returns a response. Each field will be explained in greater detail during its sub chapter.

3.17.1 Request

No.	Field	Data Type	Mandatory	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	userID	ANSC	Y	10	-
4.	authMode	A	Y	1	T or S
5.	companyID	AN	Y	10	-
6.	applicationID	N	Y	3	Provided

Fields Description

Field: adminID

This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: userID

This field describes the userID to be queried. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: authMode

This field describes authentication mode to be changed. This feature will identify the authentication mode of either Static or Token. Static mode is represented by 'S' while Token mode is represented by 'T'. It may contain alphabets only. This field will be stored as updatable information.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

Required

Required

Required

Required

LAST UPDATED: 16 Dec 2011 **Technical Specification**

3.17.2 Response

No.	Value	Description	
1.	Response Code	Numeric response from CAS (Refer Response Code)	

3.17.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
6	User not found
97	Invalid required input
98 System is current not available	
99	System is current not available

3.17.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>

<wsChangeAuthenticationModeResponse xmIns="http://upass.cas.ws.my">

<wsChangeAuthenticationModeReturn>97</wsChangeAuthenticationModeReturn>
</wsChangeAuthenticationModeResponse>

</soapenv:Body>

3.18 Remove User Application Access

(wsRevokeUserAccess)

Remove user application access function is an administrative function. It is used when 3rd party application tries to delete the user at their end and CAS will remove the application access to that particular application. This feature is used by bank administrator via 3rd party application administration. The event will allow CAS to remove the access rights and returns a response. Each field will be explained in greater detail during its sub chapter.

3.18.1 Request

No.	Field	Data Type	Mandatory	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	userID	ANSC	Y	10	-
4.	companyID	AN	Y	10	-
5.	applicationID	N	Y	3	Provided

Fields Description

Field: adminID

This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: userID

This field describes the ID belongs to the user. Access right to this application will be removed from this ID. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID to be removed from the user which is similar to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

Required

Required

3.18.2 Response

No.	Value	Description
1.	Response Code	Numeric response from CAS (Refer Response Code)

3.18.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
6	User not found
97	Invalid required input
98	System is current not available
99	System is current not available

3.18.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>

</soapenv:Body>

3.19 Revoke VASCO Token (wsRevokeVASCOToken)

Remove VASCO Token function is a token management function. It is used to remove the token being assigned to the specified user. It is used by bank administrator via 3rd party application administration. The event will allow CAS to remove the token ownership from the request userID and returns a response. Each field will be explained in greater detail during its sub chapter.

3.19.1 Request

No.	Field	Data Type	Mandatory	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	userID	ANSC	Y	10	-
4.	companyID	AN	Y	10	-
5.	applicationID	N	Y	3	Provided

Fields Description

Field: adminID

Required This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: userID

Required This field describes the ID belongs to the user. Token will be unassigned from this ID. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

3.19.2 Response

No.	Value	Description	
1.	Response Code	Numeric response from CAS (Refer Response Code)	

3.19.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
9	VASCO Token not found
97	Invalid required input
98 System is current not available	
99 System is current not available	

3.19.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>

</soapenv:Body>

3.20 Change Password (wsChangeStaticPassword)

Change Password function is user function. It is used by user to change his/her password. The event will allow CAS to change the existing password to the new password and returns a response. Each field will be explained in greater detail during its sub chapter.

3.20.1 Request

No.	Field	Data Type	Mandatory	Max Length	Remarks
1.	userID	AN	Y	10	-
2.	newPassword	ANSC	Y	-	-
3.	oldPassword	ANSCS	Y	-	-
4.	companyID	AN	Y	10	-
5.	applicationID	N	Y	3	Provided

Fields Description

Field: userID

This field describes the ID belongs to the user. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: newPassword

This field describes the new static password to be used to login. It must have a minimum length of 5 characters and may contain alphabets or numbers or symbols without white space. This field will be checked for password complexity rule and history list during the change password process and will be used as the new login password via login portal of each 3rd party application.

Field: oldPassword

This field describes the existing valid static password to be used to login. It must have a minimum length of 5 characters and may contain alphabets or numbers or symbols without white space. This field will be checked for password complexity rule during the authentication process and will be used as the login password via login portal of each 3rd party application.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

Required

Required

3.20.2 Response

No.	Value	Description	
1.	Response Code	Numeric response from CAS (Refer Response Code)	

3.20.3 Response Code

CAS will return a response code for this service as per below:

Response Code	Description	
0	Successful	
1	Wrong user ID or password	
2	Exceeded maximum login attempts	
3	Password has been previously used	
96	Password does not contain a combination of upper case, lower case, number and special character	
97 Invalid required input		
98 System is current not available		
99 System is current not available		

3.20.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>

<wsChangeStaticPasswordResponse xmlns="http://upass.cas.ws.my">

</wsChangeStaticPasswordReturn>0</wsChangeStaticPasswordReturn></wsChangeStaticPasswordResponse>

</soapenv:Body>

3.21 Reset Password (wsResetStaticPassword)

Reset Password function is an administrative function. It is used to reset other user's password and used by bank/corporate admin. The event will allow CAS to reset password based on provided userID and returns a response. If userPassword is blank, CAS will triggers a system generated password and send SMS to notify user. Each field will be explained in greater detail during its sub chapter.

3.21.1 Request

No.	Field	Data Type	Mandatory	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	userID	AN	Y	10	-
4.	userPassword	ANSC	0	-	-
5.	companyID	AN	Y	10	-
6.	applicationID	N	Y	3	Provided

Fields Description

Field: adminID

Required This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: userID

This field describes the ID to be reset. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: userPassword

This field describes the existing valid static password to be used to login. It must have a minimum length of 5 characters and may contain alphabets or numbers or symbols without white space. This field will be checked for password complexity rule during the authentication process and will be used as the login password via login portal of each 3rd party application.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

Optional

Required

3.21.2 Response

No.	Value	Description
1.	Response Code	Numeric response from CAS (Refer Response Code)

3.21.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description	
0	Successful	
3	Password has been previously used	
6	User not found	
96	Password does not contain a combination of upper case, lower case, number and special character	
97	Invalid required input	
98	System is current not available	
99	System is current not available	

3.21.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>

<wsResetStaticPasswordResponse xmlns="http://upass.cas.ws.my">

<wsResetStaticPasswordReturn>97</wsResetStaticPasswordReturn>

</wsResetStaticPasswordResponse>

</soapenv:Body>

3.22 Verify Token OTP (wsVerifyTokenOTP)

Verify Token OTP function is a re-auth function. It is used as a 2nd factor authentication feature whereby it is common among maker checker approach. This function is used by approver in approving transactions initiated by the maker. Each field will be explained in greater detail during its sub chapter.

3.22.1 Request

No.	Field	Data Type	Mandatory	Max Length	Remarks
1.	userID	AN	Y	10	-
2.	companyID	AN	Y	10	-
3.	tokenOTP	N	Y	8	Device Generated
4.	applicationID	N	Y	3	Provided

Fields Description

Field: userID

Required This field describes the ID belongs to the token holder. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: companyID

Required This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: tokenOTP

This field describes the dynamic OTP generated by VASCO token held by the user. It must have a length of 6 digits and contain numbers only. This field will be checked for validity during authentication process and will be used as the 2nd factor authentication of each 3rd party application.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

3.22.2 Response

No.	Value	Description
1.	Response Code	Numeric response from CAS (Refer Response Code)

3.22.3 Response Code

This service requires system authentication which has additional response codes as per <u>System</u> <u>Authorization Response Code Mapping</u>. CAS will return a response code for this service as per below:

Response Code	Description	
0	Successful	
6	User not found	
30	Invalid OTP	
31	Exceeded max attempts of OTP	
32	OTP has been previously used	
33	Invalid token status	
97	Invalid required input	
98	System is current not available	
99	System is current not available	

3.22.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>

</wsVerifyTokenOTPResponse>

</soapenv:Body>

3.23 Enable User (wsEnableUser)

Enable User is an administrative function. It is used to enable CAS user if the status is Disabled, Dormant and by bank/corporate admin. The event will allow CAS to change the CAS user status to Active if it was an active user or New if it is a first time user based on provided userID and returns a response. Each field will be explained in greater detail during its sub chapter.

3.23.1 Request

No.	Field	Data Type	Mandatory	Max Length	Remarks
1.	adminID	AN	Y	10	Provided
2.	adminPassword	ANSC	Y	-	Provided
3.	userID	AN	Y	10	-
4.	companyID	AN	Y	10	-
5.	applicationID	N	Y	3	Provided

Fields Description

Field: adminID

Required This field describes the ID to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: adminPassword

This field describes the static password to be used as authentication purpose. Since the function is an administrative feature, authentication of system ID and system password is required in order to proceed. It is provided by CAS.

Field: userID

Required This field describes the ID to be reset. It may contain alphabets or numbers without white space. This field will be used as the login ID via login portal of each 3rd party application.

Field: companyID

This field describes the corporate ID belongs to the user. It may contain alphabets or numbers without white space. This field will be checked for referential integrity during the creation process.

Field: applicationID

This field describes application ID belongs to the application that sends this service. It may contain numbers only. It is provided by CAS.

Required

Required

3.23.2 Response

No.	Value	Description
1.	Response Code	Numeric response from CAS (Refer Response Code)

3.23.3 Response Code

This service requires system authentication which has additional response codes as per System Authorization Response Code Mapping. CAS will return a response code for this service as per below:

Response Code	Description
0	Successful
6	User not found
97	Invalid required input
98	System is current not available
99	System is current not available

3.23.4 Sample Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmIns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <soapenv:Body> <wsEnableUserResponse xmlns="http://upass.cas.ws.my"> <wsEnableUserReturn>0</wsEnableUserReturn> </wsEnableUserResponse> </soapenv:Body>

4 Appendix

4.1 System Authorization Response Code Mapping

Response Code	Description		
1	Wrong user ID or password		
2	Exceeded maximum login attempts		
5	Invalid user status		
6	User not found		
10	Invalid access to application		
96	Password does not contain a combination of upper case, lower case, number and special character		

4.2 Data Type Legend

Field	Description	Remark
AN	Alphabet and numeric	Either type that is present
ANSC	Alphabet, numeric and symbols	Allowable symbols: !@#\$%^&*()_+<>?
ANSCS	Alphabet, numeric and SSO symbols	Allowable symbols: !@#\$%^&*()_+-=<>,.?/:;[]{}
ANSP	Alphabet, numeric and spaces	-
ANSCP	Alphabet, numeric, symbols and spaces	-
N	Numeric only	-
Α	Alphabet only	-