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Developing with Acrobat Sign Embed

Partner Application Quickstart



Certifying Your Partner App



Embed 2.0 API

[Authentication: Token APIs](#)[Account APIs](#)[User APIs](#)

Embed 2.0 API

Adobe's new Acrobat Sign Embed 2.0 frictionless model exposes new APIs for streamlining account management as well as creating and validating new user tokens. The APIs replace the existing APIs TBD ...

New APIs include:

- Auth Token APIs: Call these APIs via the AdobeSignAuthService for user token generation and validation:
 - POST Create Embed user token: Exchange technical account token for a Embed user token.
 - POST Validate Token: Validate Embed User Token
- Embed Service: Call these APIs directly using a technical account token to create or update an account and users.

Account management APIs

- POST Account: Create a new account
- PUT Account: Update a new account.
- GET Account: Fetch account info.

User Management APIs

- POST User: Add user to an account.
- PUT User: Update a user.
- GET User: fetch user info.

Authentication: Token APIs

Common auth token API attributes

Common header attributes

Header Name	Values	Description
content-type	application/x-www-form-urlencoded	The resource media type.
x-request-id	String	A string value needed to track a given request

Create Embed User token

Overview

Item	Value
HTTP Method	POST
Endpoint Operation	/api/gateway/adobesignauthservice/api/v1/token
Authorization	Technical account token, Scope - Embed_impersonate
Audience	Partner will call Adobe Sign Auth Service to generate Embed user Token
Request Header	Auth API Headers
Request Object	Create Token parameters
Response Object	Create Token response
HTTP Status Code	200
Error Code	

Request

Request Parameters

Parameter Name	Type	Default Value	Description	Mandatory Fields by POST
client_id	String		IMS Client Id	Required
client_secret	String		IMS client secret	Required
grant_type	String		Auth Grant type	Required
subject_token	String		unsigned token of the user with user email and account id.	Required
subject_token_type	String		jwt - subject token type	Required
actor_token_type	String		access_token - actor Token type	Required
actor_token	String		Technical account token	Required
scope	String		scope requested for the user access token	Required

Sample Request

```
client_id:db59840ebac849fd92fab65d2c08dc31
client_secret:s8e-VtRJmViZl1jBwVy-ByZmznF1ZzGEXZL7D
grant_type:urn:ietf:params:oauth:grant-type:token-exchange
subject_token:eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJyY2NvdW50SWQiOiIiIgQ0JKQ0hcQ0FBQkFBOT11TzExwMlpBWHVnV2FickpLekU1RGdkSVMzbFQ1S
subject_token_type:jwt
actor_token_type:access_token
actor_token:eyJhbGciOiJSUzI1NiIsIng1dSI6Im1tc19uYTEtc3RnMS1rZXktYXQtMS5jZlIiLCJraWQiOiJpbXNfbmExLXN0ZzEta2V5LWF0LTEiLCJpdHQiOiJh
scope:sign_webhook_retention,widget_write,workflow_read,agreement_send,agreement_sign,agreement_write,widget_read,sign_webhook_r
```

Response

Response Parameters

Parameter Name	Type	Description
access_token	String	Embed User Access Token value
token_type	String	Token Type: access_token
expires_in	Long	Duration before expiry in seconds. The user token expires in 5 minutes.
scope	String	Scope available in the Embed user access token

Sample Response

```
{
  "access_token":
"eyJhbGciOiJSUzI1NiJ9.eyJpZCI6ImQ4MmUzZTlmLWVmYjEtNDBlNy1hOGViLWE1NjQ5YTQxNTY3NyIsInR5cGUiOiJhY2Nlc3NfdG9rZW4iLCJjbGllbnRfaWQiOiJRTdA9eY-9kjoA4sPEnd2dNujWirfv-3GtKtbEitL6FDblZqBMdLmDLth02hcq8jUNTspuY_w16azdmrfbU3Sa0q0Xy8oJWA__4V03wZoByeAuTmzkmW5y5F_0_YgEkE6jqRf6h6MuKC9V_uG00wqURtPcOP_Cd2Jcf-HvC2dDUzCAI1KHmJWP23M3ZFWD4HABd15bRRXL-2HQ61Cwa_9bvDvVksdoadoeS_LSU0jvNK7oBHSUNTnGKuQ0i2KiZT-ZfSRZnRY9O6ZwxWuGgsMngZnSjmxrFNXu6fizvKu1zW321mndiEX51jh1kyi-CY1EMA6g",
  "token_type": "access_token",
  "expires_in": 300,
  "scope":
"example_offering,sign_webhook_retention,openid,widget_write,workflow_read,agreement_send,agreement_sign,AdobeID,agreement_write"
}
```

Validate Embed User token

Overview

Item	Value
HTTP Method	POST
Endpoint Operation	/api/gateway/adobesignauthservice/api/v1/validate_token
Authorization	NA
Audience	Adobe sign will call AdoeSignAuthservice to validate Embed token for authorising sign REST APIs
Request Header	Auth API Headers
Request Object	Validate Token request
Response Object	Validate Token Response
HTTP Status Code	200
Error Code	

Request

Request Parameters

Parameter Name	type	Default Value	Description	Mandatory Fields by POST
client_id	String		IMS CLient Id	Required

token	String		Embed user token	Required
type	String		Token type	Optional

Sample Request

```
client_id:42d7a4bbf9754fbd8fceda457d3d6747
token:eyJhbGciOiJSUzI1NiJ9.eyJpZCI6ImQ1NTU1NGFhLWE2MzktNDE0Yi1hOTBkLTNmMjJjODY2OTg1YiIsInR5cGUiOiJhY2Nlc3NfdG9rZW4iLCJjbGllbnRfaWQiOiJ1b3RlbiJ9
type:access_token
```

Response

Response Parameters

Parameter Name	Type	Description
valid	boolean	Returns if the token is valid or not.
expires_at	long	Token Expiry time in Epoc sec.

Sample Response

```
{
  "valid": true,
  "expires_at": 1673987741
}
```

Account APIs

Common account API header attributes

Common header attributes

Header Name	Values	Description
Authorization	Bearer <Technical Account Token>	Technical account token that is generated by the partner and the Partner is onboarded beforehand.
content-type	application/json	The resource media type.
x-request-id	String	A string value needed to track a given request

Create Account

Overview

Item	Value

HTTP Method	POST
Endpoint Operation	/api/gateway/Embed/v1/accounts
Authentication/ Authorization	<ul style="list-style-type: none"> Valid Technical Account Token. Required Scopes in token - sign_account_write.
Audience	Partner will call this API to create new accounts for their customers.
Request Header	Partner APIs Common Headers
Request Object	AccountProvisionRequest
Response Object	
HTTP Status Code	201
Error Code	Error Response - Create Account

Request

Account create-update request parameters

Parameter Name	Type	Default	Description	Needed in POST/PUT	Updatable by PUT
id	String	NA	Account ID of the Account	Required and Permitted only in PUT	Immutable
name	String	NA	Name of the account	Required	mutable
company	String	""	Name of the company	Optional	mutable
consumables	List<Consumable>	[]	List of Consumables	Optional	mutable
countryCode	String	NA	Target Country for Account Provisioning. Ex US, FR, GB	Required	Immutable

Consumable

Parameter Name	Type	Default Value	Description	Needed in POST/PUT	Updatable by PUT
type	String	NA	Name of consumable supported in Embed Accounts. <ul style="list-style-type: none"> KBA_ANNUAL PHONE_AUTH_ANNUAL SEAT 	Required	mutable
total	Long	0	Transaction count. Default is 0 for all the supported consumables	Required	mutable

Sample Account Provisioning Request

```
{
  "name": "OEMTestAccount",
  "company": "OEM Test Corp",
  "countryCode": "GB",
  "consumables": [{
    "type": "PHONE_AUTH_ANNUAL",
    "total": 2
  }],
  {
    "type": "KBA_ANNUAL",
```

```
    "total":2
  },
  {
    "type":"SEAT",
    "total":10
  }
]
```

Response

Account Creation Response Object

Parameter Name	REST Object	Description
accountId	String	Account Id

Sample account creation response

```
{
  "accountId" : "2aabnucbm3xsdfweldivwporqvjqzxdkjorbikaifuwufwihs*"
}
```

Errors

Error codes for AccountCreateErrorResponse

HTTP Status Code	ErrorCode	Message
400	MISSING_REQUIRED_PARAMS	Missing required parameter < required param name>
400	BAD_REQUEST	The request provided is invalid.
400	INVALID_PARAMETER	The parameter <name> value is not in the supported format.
401	INVALID_TOKEN	Token provided is invalid or expired.
403	MISSING_SCOPES	Correct scopes are not provided in the Token.
403	AUTHENTICATION_FAILED	Partner is not onboarded successfully.
500	MISC_SERVER_ERROR	Some miscellaneous error has occurred.
409	ACCOUNT_ALREADY_EXISTS	Account with this name already exists.
403	PERMISSION_DENIED	The API caller does not have the permission to execute this operation.

Update Account

Overview

Item	Value
HTTP Method	PUT
Endpoint Operation	/api/gateway/Embed/v1/accounts/<accountid>

Authentication/ Authorization	Valid Technical Account Token. <ul style="list-style-type: none">Required Scopes in token - sign_user_read.
Audience	Partner will call this API to update existing Embed account.
Request Header	Partner APIs Common Headers
Request Object	
Response Object	No Content
HTTP Status Code	204
Error Code	ErrorCodes - Update Account

Request

Account update request parameters

Sample Account Update Request

```
{
  "id": "accountid"
  "name": "TestAccountUpdated",
  "company": "Test Corp Updated",
  "consumables": [{
    "type": "PHONE_AUTH_ANNUAL",
    "total": 10
  },
  {
    "type": "KBA_ANNUAL",
    "total": 10
  }
  ]
}
```

Errors

Error codes for AccountUpdateErrorResponse

HTTP Status Code	ErrorCode	Message
200		
400	MISSING_REQUIRED_PARAMS	Missing required parameters <required param name>
400	BAD_REQUEST	The request provided is invalid.
400	INVALID_PARAMETER	The parameter <name> value is not in supported format.
400	INVALID_JSON	An invalid JSON was specified.
401	INVALID_TOKEN	Token provided is invalid.
401	MISSING_SCOPES	Correct scopes are not provided in the Token.
401	AUTHENTICATION_FAILED	Partner is not onboarded successfully.
500	MISC_SERVER_ERROR	Some miscellaneous error has occurred.
404	ACCOUNT_NOT_FOUND	Account does not exist.

403	PERMISSION_DENIED	The API caller does not have the permission to execute this operation.
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Get Account

Overview

Item	Value
HTTP Method	GET
Endpoint Operation	/api/gateway/Embed/v1/accounts/<accountid>
Authorization	<ul style="list-style-type: none"> Valid Technical Account Token. Required Scopes in token - sign_account_read.
Audience	Partner will call this API to fetch account details for their customers.
Request Header	Partner APIs Common Headers
Request Object	
Response Object	
HTTP Status Code	200
Error Code	ErrorCodes - get Account

Response

Response Object GetAccountResponse

Parameter Name	Type	Description
id	String	account Id
name	String	Name of the account
company	String	Name of the company
consumables	List<Consumable>	List of Consumables with values. eg KBA_ANNUAL, PHONE_AUTH_ANNUAL, SEATS,
countryCode	String	Target Country for Account Provisioning. Ex US, FR, GB
created	Date	Account created date in ISO format.

Sample account creation GetAccountResponse

```
{
  "id": "accountid",
  "name": "exampleacc191",
  "company": "cnameexampleaccUpdated",
  "consumables": [
    {
      "type": "KBA_ANNUAL",
      "total": 2
    },
    {
      "type": "PHONE_AUTH_ANNUAL",
      "total": 2
    }
  ]
}
```



```
}
},
"created": "2023-01-17T12:27:08Z"
}
```

Errors

Error codes for AccountGetErrorResponse

HTTP Status Code	ErrorCode	Message
400	MISSING_REQUIRED_PARAMS	Missing required parameters <required param name>
400	BAD_REQUEST	The request provided is invalid.
401	INVALID_TOKEN	Token provided is invalid.
401	MISSING_SCOPES	Correct scopes are not provided in the Token.
401	AUTHENTICATION_FAILED	Partner is not onboarded successfully.
500	MISC_SERVER_ERROR	Some miscellaneous error has occurred.
404	ACCOUNT_NOT_FOUND	Account does not exist.
403	PERMISSION_DENIED	The API caller does not have the permission to execute this operation.

User APIs

Common user API header attributes

Common user header attributes are identical to the [Common account API header attributes](#)

POST user

Overview

Item	Value
HTTP Method	POST
Endpoint Operation	/api/gateway/Embed/v1/users
Authenitication/ Authorization	<ul style="list-style-type: none">Valid Technical Account Token.Required Scopes in token - sign_user_write.
Audience	Partner will call this API to add a new user to their customer's account.
Request Header	Partner APIs Common Headers
Request Object	Create User Request

Response Object	Create User Response
HTTP Status Code	201
Error Code	ErrorCodes - Create User

Request

Create-update user request parameters

Parameter Name	Type	Default Value	Description	Mandatory Fields by POST/PUT	Update Allowed via PUT
id	String		user ID of the user	Required and Permitted only in PUT Call	Immutable
email	String		Email of user	Required	Mutable
firstName	String		First Name of User	Required	Mutable
lastName	String		Last Name of the User	Required	Mutable
accountId	String		Account ID where the user needs to be added.	Required	Immutable
status	String	ACTIVE	Status of the user	Optional	Mutable
initials	String	""	Initials of the user name.	Optional	Mutable
phone	String	""	Phone number of the user	Optional	Mutable
title	String	""	Job Title of the user.	Optional	Mutable
company	String	""	Name of the company.	Optional	Mutable
roles	List<String>		ACCOUNT_ADMIN, PRIVACY_ADMIN - User roles Values	Optional	Mutable

Sample user creation request body

```
{
  "firstName": "FName",
  "lastName": "LName",
  "email": "exampleuser17_6@echosignmail.com",
  "accountId": "CBJCHBCAABAyQTAasUNZ-1xF0gKyvZUaB6rQ3UfrKr1",
  "status": "ACTIVE",
  "initials": "AB",
  "phone": "12345678111",
  "title": "SDE",
  "company": "Adobe",
  "roles": [
    "ACCOUNT_ADMIN",
    "PRIVACY_ADMIN"
  ]
}
```

Response

Create User Response

Parameter Name	Type	Description
userId	String	User ID

Error

Error codes for UserCreateErrorResponse

HTTP Status Code	ErrorCode	Message
400	MISSING_REQUIRED_PARAMS	Missing required parameters <required param name>
400	BAD_REQUEST	The request provided is invalid.
400	INVALID_PARAMETER	The parameter <name> value is not in supported format.
409	USER_ALREADY_EXISTS	User with this email already exists.
401	INVALID_TOKEN	Token provided is invalid or expired.
403	MISSING_SCOPES	Correct scopes are not provided in the Token.
403	AUTHENTICATION_FAILED	Partner is not onboarded successfully.
500	MISC_SERVER_ERROR	Some miscellaneous error has occurred.
404	ACCOUNT_NOT_FOUND	Account does not exist.
403	PERMISSION_DENIED	The API caller does not have permission to execute this operation.

PUT User

Overview

Item	Value
HTTP Method	PUT
Endpoint Operation	/api/gateway/Embed/v1/users/<userId>
Authentication/ Authorization	<ul style="list-style-type: none">Valid Technical Account Token.Required Scopes in token - sign_user_write.
Audience	Partner will call this API to update the user attributes in the customer's Account.
Request Header	Partner APIs Common Headers
Request Object	
Response Object	No Content
HTTP Status Code	204
Error Code	ErrorCode - Update User

Request

Sample update user request body

```
{
  "id": "userId",
  "firstName": "FName",
  "lastName": "LName",
  "email": "exampleuser17_6@echosignmail.com",
```

```
"accountId": "CBJCHBCAABAyQTAasUNZ-1xF0gKyvZUaB6rQ3UfrKr1",
"status": "ACTIVE",
"initials": "AB",
"phone": "12345678111",
"title": "SDE",
"company": "Adobe",
"roles": [
  "ACCOUNT_ADMIN",
  "PRIVACY_ADMIN"
]
}
```

Errors

Error codes for UserUpdateErrorResponse

HTTP Status Code	ErrorCode	Message
400	MISSING_REQUIRED_PARAMS	Missing required parameters <required param name>]
400	BAD_REQUEST	The request provided is invalid.
400	INVALID_PARAMETER	The parameter <name> value is not in a supported format.
400	INVALID_JSON	An invalid JSON was specified.
409	USER_ALREADY_EXISTS	User with this email already exists.
401	INVALID_TOKEN	Token provided is invalid.
401	MISSING_SCOPES	Correct scopes are not provided in the Token.
401	AUTHENTICATION_FAILED	Partner is not onboarded successfully.
500	MISC_SERVER_ERROR	Some miscellaneous error has occurred.
404	ACCOUNT_NOT_FOUND	Account does not exist.
404	USER_NOT_FOUND	User does not exist.
403	PERMISSION_DENIED	The API caller does not have the permission to execute this operation.

GET User

Overview

Item	Value
HTTP Method	GET
Endpoint Operation	/api/gateway/Embed/v1/users/<userId>
Authorization	<ul style="list-style-type: none">Valid Technical Account Token.Required Scopes in token - sign_user_read.
Audience	Partner will call this API to fetch details of a user.
Request Header	Partner APIs Common Headers
Request Object	

Response Object	Get User Response
HTTP Status Code	200
Error Code	ErrorCodes - Get User

Response

Get user response attributes

Parameter Name	Type	Description
id	String	User Id.
email	String	Email of user.
firstName	String	First Name of User.
lastName	String	Last Name of the User.
accountId	String	Account ID of the user's account.
status	String	Status of the user.
initials	String	Initials of the user name.
phone	String	Phone number of the user.
title	String	Job Title of the user.
company	String	Name of the company.
roles	List<String>	ACCOUNT_ADMIN, PRIVACY_ADMIN - User roles Values.
created	Date	User creation date in ISO format.

Sample get user response

```
{
  "id": "userId",
  "email": "exampleacc812_4@echosignmail.com",
  "firstName": "FName",
  "lastName": "LName",
  "accountId": "CBJCHBCAABAAuchiIJRXpJ-IyaFxK6QvRPrLEahWSuRW",
  "status": "ACTIVE",
  "initials": "FL",
  "company": "exampletestacc4",
  "roles": [
    "ACCOUNT_ADMIN",
    "PRIVACY_ADMIN"
  ],
  "created": "2023-01-17T12:27:08Z"
}
```

Errors

Error codes for UserGetErrorResponse

HTTP Status Code	ErrorCode	Message
400	MISSING_REQUIRED_PARAMS	Missing required parameters <required param name>]

400	BAD_REQUEST	The request provided is invalid.
400	INVALID_PARAMETER	The parameter <name> value is not in supported format.
400	INVALID_JSON	An invalid JSON was specified.
401	INVALID_TOKEN	Token provided is invalid.
401	MISSING_SCOPES	Correct scopes are not provided in the Token.
401	AUTHENTICATION_FAILED	Partner is not onboarded successfully.
500	MISC_SERVER_ERROR	Some miscellaneous error has occurred.
404	USER_NOT_FOUND	User does not exist.
403	PERMISSION_DENIED	The API caller does not have the permission to execute this operation.