

CARVAJAL TECNOLOGÍA Y SERVICIOS  
CAPACIDAD DE APLICACIONES

# EWS (E-Business Web Services)

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## E-COMMERCE REST API

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## Error Responses

Error Code	Description	HTTP Status Code
BadDigest	The Content-MD5 you specified did not match what we received.	400 Bad Request
ObjectAlreadyExists	The requested object name is not available. Please select a different name and try again.	409 Conflict
EntityTooSmall	Your proposed upload is smaller than the minimum allowed object size.	400 Bad Request
EntityTooLarge	Your proposed upload exceeds the maximum allowed object size.	400 Bad Request
ExpiredToken	The provided token has expired.	400 Bad Request
IncompleteBody	You did not provide the number of bytes specified by the Content-Length HTTP header	400 Bad Request
IncorrectNumberOfFilesInPostRequest	POST requires exactly one file upload per request.	400 Bad Request
InlineDataTooLarge	Inline data exceeds the maximum allowed size.	400 Bad Request
InternalServerError	We encountered an internal error. Please try again.	500 Internal Server Error
InvalidUserId	The EWS User Id you provided does not exist in our records.	403 Forbidden
InvalidAddressingHeader	You must specify the Anonymous role.	N/A
InvalidArgument	Invalid Argument	400 Bad Request
InvalidDigest	The Content-MD5 you specified was an invalid.	400 Bad Request
InvalidLocationConstraint	The specified location constraint is not valid. For more information about Regions.	400 Bad Request
InvalidRange	The requested range cannot be satisfied.	416 Requested Range Not Satisfiable
InvalidSecurity	The provided security credentials are not valid.	403 Forbidden
InvalidStorageClass	The storage class you specified is not valid.	400 Bad Request
InvalidToken	The provided token is malformed or otherwise invalid.	400 Bad Request
InvalidURI	Couldn't parse the specified URI.	400 Bad Request
KeyTooLong	Your key is too long.	400 Bad Request
MaxMessageLengthExceeded	Your request was too big.	400 Bad Request
MaxPostPreDataLengthExceededError	Your POST request fields preceding the upload file were too large.	400 Bad Request
MetadataTooLarge	Your metadata headers exceed the maximum allowed metadata size.	400 Bad Request
MethodNotAllowed	The specified method is not allowed against this resource.	405 Method Not Allowed
MissingContentLength	You must provide the Content-Length HTTP header.	411 Length Required
MissingRequestBodyError	This happens when the user sends an empty xml document as a request. The error message is, "Request body is empty."	400 Bad Request

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MissingSecurityHeader	Your request was missing a required header.	400 Bad Request
NoLoggingStatusForKey	There is no such thing as a logging status sub-resource for a key.	400 Bad Request
NoSuchKey	The specified key does not exist.	404 Not Found
NotImplemented	A header you provided implies functionality that is not implemented.	501 Not Implemented
NotSignedUp	Your account is not signed up for EWS. You must sign up before you can use it.	403 Forbidden
OperationAborted	A conflicting conditional operation is currently in progress against this resource. Please try again.	409 Conflict
PermanentRedirect	The bucket you are attempting to access must be addressed using the specified endpoint. Please send all future requests to this endpoint.	301 Moved Permanently
Redirect	Temporary redirect.	307 Moved Temporarily
RequestTimeout	Your socket connection to the server was not read from or written to within the timeout period.	403 Forbidden
RequestTimeTooSkewed	The difference between the request time and the server's time is too large.	403 Forbidden
SignatureDoesNotMatch	The request signature we calculated does not match the signature you provided. Check your EWS Secret Access Key and signing method. For more information.	401 Unauthorized
TemporaryRedirect	You are being redirected to the bucket while DNS updates.	307 Moved Temporarily
TokenRefreshRequired	The provided token must be refreshed.	400 Bad Request
PreconditionFailed	Some precondition established for EWS API was violated. E.g.: some mandatory header is missing, parameter condition was violated.  <b>NOTE: In next revisions, 412 errors will be detailed in more specific errors.</b>	412 Precondition Failed

**IMPORTANT: Error codes are not defined yet in total. These could change in next revisions of the API.**

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## Common Request Headers

Header Name	Description	Required
Authorization	<p>The information required for request authentication.</p> <p>Type: String  Default: None  Constrains: String must follow the next format:  Authorization: account_id:message_authentication_code  NOTA: Authentication message code is HMAC.</p>	Yes
Content-Length	<p>Length of the message (without the headers) according to RFC 2616.</p> <p>Type: String  Default: None  Constrains: Required to PUT operations that involves binary content.</p>	Conditional
Content-Type	<p>The content type of the resource. Example: text/plain.</p> <p>Type: String  Default: None</p>	No
Date	<p>The current date and time according to the requester. Example: Wed, 01 Mar 2009 12:00:00 GMT.</p> <p>Example: "Tue, 12 Jan 2010 04:41:09 +0000".  Type: String  Default: None</p>	Yes
Host	<p>Value: ews.cen.biz</p> <p>Type: String  Default: None  Constrains: Required to HTTP 1.1, optional to HTTP 1.0 requests.</p>	Conditional
x-ews-security-token	<p>No defined yet.</p> <p>Type: String  Default: None  Constrains: None.</p>	Conditional

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## Common Response Headers

Header Name	Description
Content-Length	<p>The length in bytes of the body in the response.</p> <p>Type: String Default: None</p>
Connection	<p>Specifies whether the connection to the server is open or closed.</p> <p>Type: Enum Valid Values: open   close Default: None</p>
Date	<p>The date and time EWS responded, for example, Wed, 01 Mar 2009 12:00:00 GMT.</p> <p>Type: String Default: None</p>
ETag	<p>The entity tag is a hash of the object. The ETag only reflects changes to the contents of an object, not its metadata. The ETag is determined when an object is created. For objects created by the PUT Object operation and the POST Object operation, the ETag is a quoted, 32-digit hexadecimal string representing the MD5 digest of the object data. For other objects, the ETag may or may not be an MD5 digest of the object data. If the ETag is not an MD5 digest of the object data, it will contain one or more non-hexadecimal characters and/or will consist of less than 16 or more than 16 hexadecimal digits.</p> <p>Type: String</p>
Server	<p>The name of the server that created the response.</p> <p>Type: String Default: ews.cen.biz</p>
x-ews-id-2	<p>A special token that helps EWS troubleshoot problems.</p> <p>Type: String Default: None</p>
x-ews-request-id	<p>A value created by EWS that uniquely identifies the request. In the unlikely event that you have problems with EWS, EWS can use this value to troubleshoot the problem.</p> <p>Type: String Default: None</p>

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## Authenticating REST Request

Authentication is the process of proving your identity to the system. Identity is an important factor in EWS access control decisions. Requests are allowed or denied in part based on the identity of the requester.

The EWS REST API uses a custom HTTP scheme based on a keyed-HMAC (Hash Message Authentication Code) for authentication. To authenticate a request, you first concatenate selected elements of the request to form a string. You then use your EWS Secret Access Key to calculate the HMAC of that string. Informally, we call this process "signing the request," and we call the output of the HMAC algorithm the "signature" because it simulates the security properties of a real signature. Finally, you add this signature as a parameter of the request, using the syntax described in this section.

When the system receives an authenticated request, it fetches the EWS Secret Access Key that you claim to have, and uses it in the same way to compute a "signature" for the message it received. It then compares the signature it calculated against the signature presented by the requester. If the two signatures match, then the system concludes that the requester must have access to the EWS Secret Access Key, and therefore acts with the authority of the principal to whom the key was issued. If the two signatures do not match, the request is dropped and the system responds with an error message.

### Example Authenticated EWS REST Request

```
GET /documents/{documentId}/metadata HTTP/1.1
Host: ews.cen.biz
Date: Fri, 01 Jul 2011 19:37:58 +0000

Authorization: OPN5J17HBGZHT7JJ3X82:frJIUN8DYpKDtOLCwo//yllqDzg=
```

### Authentication Header

The EWS REST API uses the standard HTTP Authorization header to pass authentication information. (The name of the standard header is unfortunate because it carries authentication information, not authorization). Under the EWS authentication scheme, the Authorization header has the following form.

```
Authorization: EWSUserId:Signature
```

Developers are issued a EWS Access Key ID and EWS Secret Access Key when they register. For request authentication, the EWSUserId element identifies the secret key that was used to compute the signature, and (indirectly) the developer making the request.

The Signature element is the RFC 2104HMAC-SHA1 of selected elements from the request, and so the Signature part of the Authorization header will vary from request to request. If the request signature calculated by the system matches the Signature included with the request, then the requester will have demonstrated possession to the EWS Secret Access Key. The request will then be processed under the identity, and with the authority, of the developer to whom the key was issued.

Following is pseudo-grammar that illustrates the construction of the Authorization request header (\n means the Unicode code point U+000A commonly called newline).

```
Authorization = EWSUserId + ":" + Signature;

Signature = Base64( HMAC-SHA1( UTF-8-Encoding-Of( YourSecretAccessKeyID, StringToSign ) ) );

StringToSign = HTTP-Verb + "\n" +
               Host + "\n" +
               Content-MD5 + "\n" +
```

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```

Content-Type + "\n" +
Date + "\n" +
CanonicalizedResource;

CanonicalizedResource = <Resource Path>

```

HMAC-SHA1 is an algorithm defined by RFC 2104 (go to RFC 2104 - Keyed-Hashing for Message Authentication). The algorithm takes as input two byte-strings: a key and a message. For EWS Request authentication, use your EWS Secret Access Key (YourSecretAccessKeyID) as the key, and the UTF-8 encoding of the StringToSign as the message. The output of HMAC-SHA1 is also a byte string, called the digest. The Signature request parameter is constructed by Base64 encoding this digest.

## Request Canonicalization for Signing

Recall that when the system receives an authenticated request, it compares the computed request signature with the signature provided in the request in StringToSign. For that reason, you must compute the signature using the same method used by EWS. We call the process of putting a request in an agreed-upon form for signing "canonicalization".

## Time Stamp Requirement

A valid time stamp (using HTTP Date header) is mandatory for authenticated requests. Furthermore, the client time-stamp included with an authenticated request must be within 15 minutes of the EWS system time when the request is received. If not, the request will fail with the RequestTimeTooSkewed error status code. The intention of these restrictions is to limit the possibility that intercepted requests could be replayed by an adversary. For stronger protection against eavesdropping, use the HTTPS transport for authenticated requests.

**Note:** Format of the Date must be [RFC 2822](#) compliant.

## Authentication Examples

The examples in this section use the (non-working) credentials in the following table.

Parameter	Value
EWSUserId	13010f3e-3f46-4889-b989-592ce8fb30c6
EWSSecretAccessKey	c991f519-bed0-4dab-9165-6d9f722dc845

### Example Object GET

This sample gets a document metadata.

Request	StringToSign
<pre> GET /documents/some_doc_id/metadata HTTP/1.1 Host: ews.cen.biz Date: Tue, 27 Mar 2007 19:36:42 +0000  Authorization: 13010f3e-3f46-4889-b989-592ce8fb30c6: Yzk5MmY1MTktYmVhMC00ZGFjLTkxNjUtNmQ5ZjcyMmRjODQ1 </pre>	<pre> GET\n ews.cen.biz\n \n \n Tue, 27 Mar 2007 19:36:42 +0000\n /documents/some_doc_id/metadata </pre>

## Example List

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This sample list documents tagged as “inbox”.

Request	StringToSign
GET /documents/_all_docs_by_tag/inbox HTTP/1.1 Host: ews.cen.biz Date: Tue, 27 Mar 2007 19:42:41 +0000  <i>Authorization: 13010f3e-3f46-4889-b989-592ce8fb30c6:  Yzk5MWY1MTktYmVhMC00ZGFjLTkxNjUtNmQ5ZjcyMmRjODQ1</i>	GET\n ews.cen.biz\n \n \n Tue, 27 Mar 2007 19:42:41 +0000\n /documents

Note the absence of query string parameters in CanonicalizedResource.

### Example Delete

This sample removes a document.

Request	StringToSign
DELETE /documents/ HTTP/1.1 Host: ews.cen.biz Date: Tue, 27 Mar 2007 21:20:27 +0000  <i>Authorization: 13010f3e-3f46-4889-b989-592ce8fb30c6:  Yzk5MWY1MTktYmVhMC00ZGFjLTkxNjUtNmQ5ZjcyMmRjODQ1</i>	DELETE\n ews.cen.biz\n \n \n Tue, 27 Mar 2007 21:20:26 +0000\n /documents/some_doc_id

### Example Upload

Request	StringToSign
PUT /documents/47c84149-88a2-4688-885f-38af5d9137a1?documentProfileId=UBL2&draft=true HTTP/1.1 Host: ews.cen.biz Date: Tue, 27 Mar 2007 21:06:08 +0000 Content-type: application/xml Content-MD5: 4gJE4saaMU4BqNR0kLY+lw== Content-Encoding: gzip Content-Length: 5913339  <i>Authorization: 13010f3e-3f46-4889-b989-592ce8fb30c6:  Yzk5MWY1MTktYmVhMC00ZGFjLTkxNjUtNmQ5ZjcyMmRjODQ1</i>	PUT\n johnsmith.es2.cen.biz\n 4gJE4saaMU4BqNR0kLY+lw==\n application/xml\n Tue, 27 Mar 2007 21:06:08 +0000\n /documents/47c84149-88a2-4688-885f-38af5d9137a1



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## IAM Resources

### Account

Property	Description	Required
account_id	The ID of this account.  Type: String Default: None	Yes
company_name	Name of the company.  Type: String Default: None	Yes
country	Country.  Type: String Default: None	Yes
url	Web site URL.  Type: String Default: None	Yes
description	Description of the company.  Type: Key/Value structure – E.g.: Properties, Hashtable, Map, etc. Default: None	No
identifiers	Identifiers.  Type: Key/Value pair list – E.g.: Properties, Hashtable, Map, etc. Default: None	No
address_lines	Address lines.  Type: Key/Value pair list – E.g.: Properties, Hashtable, Map, etc. Default: None	No
accepting_documents_profiles	Profiles supported by this account.  Type: Key/Value pair list – E.g.: Properties, Hashtable, Map, etc. Default: None	No
status	Status if this account. ENABLED DISABLED LOCKED  Type: String. Default: ENABLED	No

JSON representation for **Account** objects:

```
{
  "account_id" : "47c84149-88a2-4688-885f-38af5d9137a1",
  "company_name" : "str",
  "country" : "str",
  "url" : "str",
  "description" : "str",
  "status" : "ENABLED",
  "identifiers" : [ {
    "scheme" : "str",
    "value" : "str"
  } ]
}
```

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```

    } ],
    "address_lines" : [ {
      "scheme" : "str",
      "value" : "str"
    } ],
    "accepting_document_profiles" : [ {
      "id" : "str",
      "customization" : "str"
    } ]
  } ]
}

```

## User

Property	Description	Required
user_id	The stable and unique string identifying the User. This represents the access key ID to get access to the system.  Type: String Default: None	Yes
user_name	The name identifying the User.  Type: String Default: None	Yes
created_date	Date which user is created. Date follows the <a href="#">RFC 2822</a> format.  Type: String Default: None	Yes
account_id	Account ID, owner of this user.  Type: String Default: None	Yes
secret_access_key	Secret access key of this user.  Type: String. Default: None	No
status	Status if this user. ENABLED DISABLED LOCKED  Type: String. Default: ENABLED	No

JSON representation for **User** objects:

```

{
  "user_id" : "47c84149-88a2-4688-885f-38af5d9137a1",
  "user_name" : "str",
  "created_date" : "str",
  "account_id" : "47c84149-88a2-4688-885f-38af5d9137a1",
  "secret_access_key" : "str",
  "status" : "ENABLED"
}

```

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## Document Resources

### Document

Property	Description	Required
document_id	Unique identifier to document. It is highly recommended to use UUID for this property.  Type: String Default: None	Yes
document_type	Document Type.  Type: DocumentType Default: None	Yes
uri	URI where document is located.  Type: String Default: None	Yes
tx_id	The transaction in which this document takes place. It is an UUID.  Type: String Default: None	Yes
state	The state of the document. DRAFT - Document is saved as a draft, and not sent yet. PROCESSING - Document is being sent to its receiver. LOCKED - Document cannot be edited.  Type: String Default: None	Yes
created_date	Date which document is created. Date follows the <a href="#">RFC 2822</a> format.  Type: String Default: None	Yes
last_update	Last date which document was edited. Date follows the <a href="#">RFC 2822</a> format.  Type: String Default: None	No
hash	A hash signature for the content of the document.  Type: String Default: None	No
tags	Documents tags.  Type: String[] Default: None	No
properties	Document properties.  Type: Key/Value structure – E.g.: Properties, Hashtable, Map, etc. Default: None	No
owner_account_id	Account ID which this document belongs to.  Type: String. Default: None	No
owner_user_id	User ID which this document belongs to.  Type: String. Default: None	No

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sender_account_id	ID to identify the sender account of the document.  Type: String. Default: None	No
sender_user_id	ID to identify the sender user of the document.  Type: String. Default: None	No

## Document Type

Property	Description	Required
mime_type	MIME type.  Type: String Default: None	No
document_profile_id	Document profile on which the document is based. This is one of the profiles from the 'documentprofiles' resource.  Type: String Default: None	No
type	A document has a type, which can be either "INVOICE" or "PURCHASE_ORDER", "INVENTORY_REPORT", "SALES_REPORT", "RECEIVE_ADVICE", "DISPATCH_ADVICE", "PRICAT", "CREDIT_NOTE", "DEBIT_NOTE", , etc.  Type: String Default: "INVOICE"	No

JSON representation for **Document** objects:

```
{
  "document_id" : "b6aed94d-4538-4d50-a87e-33c2784b64b7",
  "document_type" : {
    "mime_type" : "str",
    "document_profile_id" : "str",
    "type" : "str"
  },
  "uri" : "str",
  "tx_id" : "11f7566f-8faf-47df-b963-11d1fc272cfd",
  "state" : "DRAFT",
  "created_date" : "2011-06-20T12:32:36.961Z",
  "last_update" : "2011-06-20T12:32:36.961Z",
  "hash" : "str",
  "tags" : {
    "tag" : [ "str" ]
  },
  "properties" : {
    "str" : "str"
  },
  "owner_account_id" : "str",
  "owner_user_id" : "str",
  "sender_account_id" : "str",
  "sender_user_id" : "str"
}
```

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## Document Metadata

Property	Description	Required
document_id	Unique identifier to document. It is highly recommended to use UUID for this property.  Type: String Default: None	Yes
document_type	Document Type.  Type: DocumentType Default: None	Yes
tx_id	The transaction in which this document takes place. It is an UUID.  Type: String Default: None	Yes
state	The state of the document. DRAFT - Document is saved as a draft, and not sent yet. PROCESSING - Document is being sent to its receiver. LOCKED - Document cannot be edited.  Type: String Default: None	Yes
created_date	Date which document is created. Date follows the <a href="#">RFC 2822</a> format.  Type: String Default: None	Yes
last_update	Last date which document was edited. Date follows the <a href="#">RFC 2822</a> format.  Type: String Default: None	No
hash	A hash signature for the content of the document.  Type: String Default: None	No
tags	Documents tags.  Type: String[] Default: None	No
properties	Document properties.  Type: Key/Value structure – E.g.: Properties, Hashtable, Map, etc. Default: None	No
dispatch_channel	Channel through which the document is dispatched. EMAIL - External dispatch to an e-mail address. EASYTRADE - External dispatch to the Danish EasyTrade network. TRADESHIFT - Internal dispatch to another Tradeshift user.  Type: String. Default: None	No
agreement_id	The agreement through which the document is or will be sent.  Type: String. Default: None	No
dispatch_state	The current dispatch state. ACCEPTED - The dispatch has been queued for processing. PROCESSING - The dispatch is currently in progress.	No

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	<p>COMPLETED - The dispatch has completed successfully.</p> <p>FAILED_TRANSIENT - Dispatching failed, but will be retried by system later.</p> <p>FAILED - Dispatching failed permanently.</p> <p>Type: String.</p> <p>Default: None</p>	
process_state	<p>The PROCESS state of the document (as marked by the user or otherwise). Note that a document won't have a PROCESS state until it is dispatched. Possible values: PAID, REJECTED, OVERDUE, ACCEPTED, PENDING, NONE.</p> <p>Type: String.</p> <p>Default: None</p>	No

JSON representation for **DocumentMetadata** entity:

```
{
  "document_id" : "b6aed94d-4538-4d50-a87e-33c2784b64b7",
  "document_type" : {
    "mime_type" : "str",
    "document_profile_id" : "str",
    "type" : "str"
  },
  "tx_id" : "11f7566f-8faf-47df-b963-11d1fc272cfd",
  "state" : "DRAFT",
  "created_date" : "2011-06-20T12:32:36.961Z",
  "last_update" : "2011-06-20T12:32:36.961Z",
  "hash" : "str",
  "tags" : {
    "tag" : [ "str" ]
  },
  "properties" : {
    "str" : "str"
  },
  "dispatch_channel" : "str",
  "agreement_id" : "str",
  "dispatch_state" : "str",
  "process_state" : "str"
}
```

## Dispatch

Property	Description	Required
dispatch_id	<p>The ID of this dispatch.</p> <p>Type: String</p> <p>Default: None</p>	Yes
object_id	<p>The ID of the object being dispatched (usually a Document).</p> <p>Type: String</p> <p>Default: None</p>	Yes
created_date	<p>Date which document is dispatched. Date follows the <a href="#">RFC 2822</a> format.</p> <p>Type: String</p> <p>Default: None</p>	Yes

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sender_account_id	Account ID of the sender party.  Type: String Default: None	Yes
sender_user_id	User ID referred to the Account ID of the sender party.  Type: String Default: None	Yes
dispatch_state	The current dispatch state. ACCEPTED - The dispatch has been queued for processing. PROCESSING - The dispatch is currently in progress. COMPLETED - The dispatch has completed successfully. FAILED_TRANSIENT - Dispatching failed, but will be retried by system later. FAILED - Dispatching failed permanently.  Type: String Default: None	Yes
last_state_change	Last Date which dispatch state was updated. Date follows the <a href="#">RFC 2822</a> format.  Type: String Default: None	No
receiver_agreement_id	The agreement through which the document is or will be sent.  Type: String Default: None	Yes
dispatch_channel	Channel through which the document is dispatched. EMAIL - External dispatch to an e-mail address. HTTP - External dispatch to an HTTP endpoint. CEN - External dispatch to the CEN. EWS - Internal dispatch to another EWS user.  Type: String Default: None	No
failure_message	Technical information with the reason that a dispatch has failed.  Type: String Default: None	No

JSON representation for Dispatch entity:

```
{
  "dispatch_id" : "e51a5698-867f-4cb8-bcc9-24e2d484e5e7",
  "object_id" : "a36064b4-fae6-47cf-a69b-b1317a981a18",
  "created_date" : "2011-06-20T12:32:36.957Z",
  "sender_account_id" : "c09bc289-e9ae-422d-92ca-2b024241b76f",
  "sender_user_id" : "9bcc3a49-c367-483d-ab7a-0679f8e6a437",
  "dispatch_state" : "ACCEPTED",
  "last_state_change" : "2011-06-20T12:32:36.958Z",
  "receiver_agreement_id" : "e0870f7a-09c3-4dab-8eab-8c73828de2f4",
  "dispatch_channel" : "str",
  "failure_message" : "str"
}
```

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## Agreement Resources

### Agreement

Property	Description	Required
agreement_type	The ID of this dispatch. Supported value ExternalAgreement  Type: String Default: None	Yes
agreement_id	The ID of the object being dispatched (usually a Document).  Type: String Default: None	Yes
created_date	Timestamp when this connection was created. Date follows the <a href="#">RFC 822</a> format.  Type: String Default: None	Yes
properties	Document properties.  Type: Key/Value structure – E.g.: Properties, Hashtable, Map, etc. Default: None	No
source_account_id	The ID of the account that requested the agreement.  Type: String Default: None	Yes

**EWSAgreement** adds the next properties to a base agreement:

target_account_id	The ID of account that received and accepted the agreement.  Type: String Default: None	Yes
state	State of the agreement request. CREATED - Connection was created, but isn't mutual (anymore). REQUESTED - Network request sent, but no reply (yet). ACCEPTED - This is a mutual connection (network request was accepted).  Type: String Default: None	Yes

**ExternalAgreement** adds the next properties to a base agreement:

dispatch_channel_id	Dispatch channel identifier. Supported: CEN, EMAIL and HTTP.  Type: String Default: None	Yes
company_name	Name of the company which document is dispatched.  Type: String Default: None	Yes
country	The country for the external connection. Valid 2-letter country codes are listed in the 'countries' resource.  Type: String Default: None	Yes



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modified	Latest modified date.  Type: String Default: None	Yes
address_lines	Address lines.  Type: AddressLine Array. Default: None	Yes
dispatch_channel_id	Dispatch channel identifier. Supported: CEN. Coming soon: EMAIL, HTTP.  Type: String Default: None	Yes
first_name	First name of the account proprietary.  Type: String Default: None	Yes
last_name	Last name of the account proprietary.  Type: String Default: None	Yes
email	Email of the account proprietary.  Type: String Default: None	Yes
title	Title of the account proprietary.  Type: String Default: None	Yes
phone	Phone of the account proprietary.  Type: String Default: None	Yes
fax	Fax of the account proprietary.  Type: String Default: None	Yes
language	Language supported.  Type: String Default: None	Yes

JSON representation for **EWSAgreement** entity:

```
{
  "agreement_type": "EWSAgreement",
  "agreement_id" : "c991f519-bed0-4dab-9165-6d9f722dc845",
  "created_date" : "2011-06-20T12:32:36.974Z",
  "properties" : {
    "str" : "str"
  }
  "source_account_id" : "1231f519-bed0-4dab-9165-6d9f722dc845",
  "target_account_id" : "2221f519-bed0-4dab-9165-6d9f722dc845",
  "state" : "CREATED"
}
```

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JSON representation for **ExternalAgreement** entity:

```
{
  "agreement_type": "ExternalAgreement",
  "agreement_id" : "13010f3e-3f46-4889-b989-592ce8fb30c6",
  "created_date" : "2011-06-20T12:32:36.973Z",
  "properties" : {
    "str" : "str"
  }
  "source_account_id" : "1231f519-bed0-4dab-9165-6d9f722dc845",
  "company_name" : "str",
  "country" : "str",
  "modified" : "2011-06-20T12:32:36.973Z",
  "identifiers" : [ {
    "scheme" : "str",
    "value" : "str"
  } ],
  "address_lines" : [ {
    "scheme" : "str",
    "value" : "str"
  } ],
  "dispatch_channel_id" : "CEN",
  "first_name" : "str",
  "last_name" : "str",
  "email" : "str",
  "title" : "str",
  "phone" : "str",
  "fax" : "str",
  "language" : "str"
}
```

## Notification Resources

EWS Notification resources are web services resources that enable applications, end-users, and devices to instantly receive notifications from the EWS. The predefined Notification resources push “real-time” notifications to interested subscribers over http protocol.

### Inbox notification resource Subscription

Property	Description	Required
subscription_id	The unique identifier of the subscription Type: String Default: None	YES
description	The customer description of the subscription  Type: String Default: None	NO
endpoint	The endpoint that you want to receive notifications. Actually only is supported the http protocol. <ul style="list-style-type: none"> <li>For the http protocol, the endpoint is a URL beginning with “http://”</li> </ul> Type: String Default: None	YES
created_date	Timestamp when this connection was created. Date follows the <a href="#">RFC 822</a> format.	NO

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	Type: String Default: None	
http_method	The http method to send the notification. The http methods supported are: PUT and POST	NO
	Type: String Default: PUT	
authentication_method	The http authentication method Supported: NONE, BASIC	NO
	Type: String Default: NONE	
user	A valid user for the endpoint. This property is required if the authentication method is BASIC.	NO
	Type: String Default: NONE	
Password	A valid password for the user. This property is required if the authentication method is BASIC.	NO
	Type: String Default: NONE	
email	A valid email address of the endpoint administrator	Yes
	Type: String Default: None	

JSON representation for **subscription** entity:

```
// EWS Inbox Notification Subscription
{
  "description": "my subscription to receive notifications from ews",
  "endpoint" : "http://mydomain/path",
  "http_method" : "POST",
  "authentication_method" : "BASIC",
  "user" : "user",
  "password" : "password",
  "email" : "admin@mydomain"
}
```

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## Operations on the Documents

### Querying Options

Parameter	Description	Required
filteredByUser	Indicates if the query is going to be filtered by user or not – owner user which documents belongs to. If it is set to false, the query will be filtered by account.  NOTE: Keep in mind that documents that are sent from others accounts, do not belong to any particular user, therefore, they must be queried by account – filteredByUser=false.  Type: Boolean Default: True	No
tag	The tag the document must have. Known system tags: inbox, outbox, draft, sales, purchases.  Type: String Default: False	No
propertyKey	Must be specified together with a propertyvalue. Can only be used once. Documents must have matching propertykey and propertyvalue.  Type: String Default: None	No
propertyValue	See propertykey.  Type: String Default: None	No
type	The type of documents to include. A document has a type, which can be either 'invoice' or 'creditnote'.  Type: String Default: None	No
limit	Maximum number of results to return defaults to 25. This is also the number of results on each skipped page.  Type: String Default: None	No
minIssueDate	Earliest issue date of documents to match (according to UBL content). "Getting all posts for last month". If it's February now. ?minissuedate="2010/01/01 00:00:00"&maxissuedate="2010/02/00 00:00:00"  Type: String Default: Oldest date	No
maxIssueDate	Latest issue date of documents to match (according to UBL content) "Getting all posts for last month". If it's February now. ?minissuedate="2010/01/01 00:00:00"&maxissuedate="2010/02/00 00:00:00"  Type: String Default: Latest date	No
descending	Option to list the documents in descending or ascending order.  Type: Boolean Default: false	No

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## All Documents

### Description

Get a list of all documents for the requesting user. The results can be filtered specifying a date range and limit, these parameter are optional.

### Requests

#### Syntax

```
GET /documents/_all_docs
?minIssueDate={minissuedate}
&maxIssueDate={maxissuedate}
&limit={limit}
&descending=true
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

## All Documents by Tag

### Description

Get a list of all documents for the requesting user that match with the given tag in the resource path. The results can be filtered specifying a date range and limit, these parameter are optional.

### Requests

#### Syntax

```
GET /documents/_all_docs_by_tag/{tag}
?minIssueDate={minissuedate}
&maxIssueDate={maxissuedate}
&limit={limit}
&descending=true
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

## All Documents by Property

### Description

Get a list of all documents for the requesting user that match with the given property in the resource path. The results can be filtered specifying a date range and limit, these parameter are optional.

### Requests

#### Syntax

```
GET /documents/_all_docs_by_property/{key}/{value}
?minIssueDate={minissuedate}
&maxIssueDate={maxissuedate}
```

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```
&limit={limit}
&descending=true
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

## All Documents by Properties

### Description

Get a list of all documents for the requesting user that match with the given properties in the resource path. The results can be filtered specifying a date range and limit, these parameter are optional.

### Requests

#### Syntax

```
GET /documents/_all_docs_by_properties
?minIssueDate={minissuedate}
&maxIssueDate={maxissuedate}
&limit={limit}
&descending=true
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
{"keys": ["key1=value1", "key2=value2", ...]}
```

**Note:** This operation is **NOT** implemented yet.

## Documents by list of IDs

### Description

Get a list of documents for the requesting user that match with the given list of IDs in the content. This operation hasn't optional parameters.

### Requests

#### Syntax

```
POST /documents/_all_docs_by_id
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
{"keys": ["key1", "key2", ...]}
```

## Result List

```
{
  "num_pages" : "0",
  "page_id" : "0",
```

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```

"items_per_page" : "0",
"item_count" : "0"
"links" : [
  {"rel" : "Index", "href" : "str"},
  {"rel" : "Next", "href" : "str"},
  {"rel" : "Prev", "href" : "str"}
],
"document" : [ {
  "document_id" : "0b5dc17b-d965-4969-ba66-587a29f27b20",
  "uri" : "str",
  "document_type" : {
    "mime_type" : "str",
    "document_profile_id" : "str",
    "type" : "str"
  },
  "state" : "DRAFT",
  "last_edit" : "2011-06-20T12:32:36.969Z",
  "sender_company_name" : "str",
  "receiver_company_name" : "str",
  "tags" : {
    "tag" : [ "str" ]
  },
  "item_infos" : [
    { "type" : "str", "value" : "str" }
  ],
  "latest_dispatch" : {
    "dispatch_id" : "95c93d15-9623-40b2-a819-5589bba42e9b",
    "object_id" : "f4e8ea07-f820-4eb2-9d3a-6f57c96c352b",
    "created_date" : "2011-06-20T12:32:36.970Z",
    "sender_account_id" : "0ce66091-d3ef-4cee-b5ff-8a0d888a028f",
    "sender_user_id" : "8de7ba5b-8a09-4f90-b945-fe517b6d7815",
    "dispatch_state" : "ACCEPTED",
    "last_state_change" : "2011-06-20T12:32:36.970Z",
    "receiver_agreement_id" : "18b1e737-2d1a-4805-910c-3c9533e8162e",
    "dispatch_channel" : "str",
    "failure_message" : "str"
  },
  "sent_received_timestamp" : "2011-06-20T12:32:36.970Z",
  "process_state" : "str"
} ]
}

```

## GET Document

### Description

Get a raw document previously uploaded. Content field is a String (UTF-8) coded in Base64.

### Requests

#### Syntax

```

GET /documents/{documentId}/content HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature

```

### Responses

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```

HTTP/1.1 200 OK
x-ebz-id-2: b6aed94d-4538-4d50-a87e-33c2784b64b7
x-ebz-request-id: 4477d94d-4538-4d50-a87e-33c2784b64b7
Date: Wed, 01 Mar 2009 12:00:00 GMT
Content-Type: application/octet-stream
Content-Length: 645
Connection: close
Server: ews.cen.biz

... content ...

```

## GET Document Metadata

### Description

Get metadata for a document. Return all document information, even information related to dispatching, but without document content.

### Requests

#### Syntax

```

GET /documents/{documentId}/metadata HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature

```

### Responses

```

HTTP/1.1 200 OK
x-ebz-id-2: b6aed94d-4538-4d50-a87e-33c2784b64b7
x-ebz-request-id: 4477d94d-4538-4d50-a87e-33c2784b64b7
Date: Wed, 01 Mar 2009 12:00:00 GMT
Content-Type: application/json
Content-Length: 645
Connection: close
Server: ews.cen.biz

{
  "document_id" : "b6aed94d-4538-4d50-a87e-33c2784b64b7",
  "document_type" : {
    "mime_type" : "str",
    "document_profile_id" : "str",
    "type" : "str"
  },
  "tx_id" : "11f7566f-8faf-47df-b963-11d1fc272cfd",
  "state" : "DRAFT",
  "created_date" : "2011-06-20T12:32:36.961Z",
  "last_update" : "2011-06-20T12:32:36.961Z",
  "hash" : "str",
  "tags" : {
    "tag" : [ "str" ]
  },
  "properties" : {
    "str" : "str"
  },
}

```



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```

"dispatch_channel" : "str",
"agreement_id" : "str",
"dispatch_state" : "str",
"process_state" : "str"
}

```

## PUT Document

### Description

Store the document, the actual document content is sent as the entity/body of the PUT call. The client can decide on the UUID for the new element. After the document has been stored it is LOCKED for modification.

**Note:** To configure your application to send the request headers prior to sending the request body, use the 100-continue HTTP status code. For PUT operations, this helps you avoid sending the message body if the message is rejected based on the headers (e.g., authentication failure or redirect). For more information on 100-continue HTTP status code; go to Section 8.2.3 of <http://www.ietf.org/rfc/rfc2616.txt>.

### Requests

#### Syntax

```

PUT /documents/{documentId}
?documentProfileId={documentProfileId}
&draft={draft}
&type={type} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
Content-Type: application/octet-stream
Content-Length: 1200
Content-MD5: 4gJE4saaMU4BqNR0kLY+lw==
Expect: 100-continue

... document content coded in base64 ...

```

### Request Query Parameters

Property	Description	Required
documentProfileId	Document profile id that the document adheres to (e.g. "UBL-2.0"), from the 'documentprofiles' resource.  Type: String Default: None	Yes
draft	If the document should be editable after upload.  Type: String Default: False	No
type	A document has a type, which can be either "INVOICE" or "CREDIT_NOTE", "DEBIT_NOTE", "PURCHASE_ORDER", "SALES_REPORT", "INVENTORY_REPORT", "RECEIVE_ADVICE", "DISPATCH_ADVICE", "PRICAT" etc.  Type: String	No

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	Default: "INVOICE"	
--	--------------------	--

## Request Headers

Header	Description	Required
Cache-Control	Can be used to specify caching behavior along the request/reply chain. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9">http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9</a> .  Type: String Default: None	No
Content-Disposition	Specifies presentational information for the object. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec19.html#sec19.5.1">http://www.w3.org/Protocols/rfc2616/rfc2616-sec19.html#sec19.5.1</a> .  Type: String Default: None	No
Content-Encoding	Specifies what content encodings have been applied to the object and thus what decoding mechanisms must be applied to obtain the media-type referenced by the <i>Content-Type</i> header field. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.11">http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.11</a> .  Type: String Default: None	No
Content-Length	The size of the object, in bytes. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.13">http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.13</a> .  Type: String Default: None Constraints: None	Yes
Content-MD5	The base64 encoded 128-bit MD5 digest of the message (without the headers) according to RFC 1864. This header can be used as a message integrity check to verify that the data is the same data that was originally sent. Although it is optional, we recommend using the Content-MD5 mechanism as an end-to-end integrity check.  Type: String Default: None	Yes
Content-Type	A standard MIME type describing the format of the contents. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.17">http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.17</a> .  Type: String Default: application/octet-stream Valid Values: MIME types	Yes
Expect	When your application uses 100-continue, it does not send the request body until it receives an acknowledgment. If the message is rejected based on the headers, the body of the message is not sent.  Type: String Default: None Valid Values: 100-continue	No

## Responses

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```
HTTP/1.1 100 Continue
HTTP/1.1 200 OK
x-ebz-id-2: b6aed94d-4538-4d50-a87e-33c2784b64b7
x-ebz-request-id: 4477d94d-4538-4d50-a87e-33c2784b64b7
Date: Wed, 12 Oct 2009 17:50:00 GMT
ETag: 1b2cf535f27731c974343645a3985328
Content-Length: 0
Connection: close
Server: ews.cen.biz
```

## DELETE Document

### Description

Delete a previously saved document.

### Requests

#### Syntax

```
DELETE /documents/{documentId} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

### Responses

```
HTTP/1.1 200 OK
x-ebz-id-2: b6aed94d-4538-4d50-a87e-33c2784b64b7
x-ebz-request-id: 4477d94d-4538-4d50-a87e-33c2784b64b7
Date: Wed, 12 Oct 2009 17:50:00 GMT
Content-Length: 0
Connection: close
Server: ews.cen.biz
```

## GET Document Property

### Description

Get a property for a document. Gives 204 status when the property is not found. Return the value of the property as plain text.

### Requests

#### Syntax

```
GET /documents/{documentId}/properties?key={key} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

### Responses

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```
{
  value
}
```

## PUT Document Property

### Description

Add or replace a property for a document.

### Requests

#### Syntax

```
PUT /documents/{documentId}/properties?key={key}&value={value} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

## DELETE Document Property

### Description

Remove a property from a document.

### Requests

#### Syntax

```
DELETE /documents/{documentId}/properties/{property} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

## GET Document Tags

### Description

Get tags for a document.

### Requests

#### Syntax

```
GET /documents/{documentId}/tags HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

### Responses

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```
{
  "Tag" : [ "str" ]
}
```

## PUT Document Tag

### Description

Add or replace a tag on a document.

### Requests

#### Syntax

```
PUT /documents/{documentId}/tags/{tag} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

## DELETE Document Tag

### Description

Remove a tag from a document.

### Requests

#### Syntax

```
DELETE /documents/{documentId}/tags/{tag} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

## Mark Document as Read (or Unread)

### Description

Mark the specified document as read. By default, when some user receives any document, this document is marked as unread by default.

### Requests

#### Syntax

```
POST /documents/{documentId}/more?markAsRead={true} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

#### Request Query Parameters

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Property	Description	Required
markAsRead	<p>When this flag is set in "true", the document is marked as read; in case of "false" the document is marked as unread.</p> <p>Type: Boolean Default: False</p>	Yes

**Note:** This operation is **NOT**, implemented yet.

## List All Read or Unread Documents

### Description

Return a list with all document IDs marked as read or unread, depending on the flag value.

### Requests

#### Syntax

```
GET /documents/_all_docs_by_read_tag?markAsRead={true} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

#### Request Query Parameters

Property	Description	Required
markAsRead	<p>When this flag is set in "true", a list with all documents marked as read are returned, in case of "false" all unread documents are returned.</p> <p>Type: Boolean Default: False</p>	Yes

### Responses

```
{
  "document_list" : [ "str" ]
}
```

**Note:** This operation is **NOT**, implemented yet.

## Operations on Dispatches

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## GET Latest Dispatch

### Description

Get the latest dispatch information with regards to a previously dispatched document.

### Requests

#### Syntax

```
GET /documents/{documentId}/dispatches/latest HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

### Responses

```
{
  "dispatch_id" : "e51a5698-867f-4cb8-bcc9-24e2d484e5e7",
  "object_id" : "a36064b4-fae6-47cf-a69b-b1317a981a18",
  "created_date" : "2011-06-20T12:32:36.957Z",
  "sender_account_id" : "c09bc289-e9ae-422d-92ca-2b024241b76f",
  "sender_user_id" : "9bcc3a49-c367-483d-ab7a-0679f8e6a437",
  "dispatch_state" : "ACCEPTED",
  "last_state_change" : "2011-06-20T12:32:36.958Z",
  "receiver_agreement_id" : "e0870f7a-09c3-4dab-8eab-8c73828de2f4",
  "dispatch_channel" : "str",
  "failure_message" : "str"
}
```

## GET Dispatch

### Description

Get the dispatch information with regards to a previously dispatched document.

### Requests

#### Syntax

```
GET /documents/dispatches/{dispatchid} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

### Responses

```
{
  "dispatch_id" : "e51a5698-867f-4cb8-bcc9-24e2d484e5e7",
  "object_id" : "a36064b4-fae6-47cf-a69b-b1317a981a18",
  "created_date" : "2011-06-20T12:32:36.957Z",
  "sender_account_id" : "c09bc289-e9ae-422d-92ca-2b024241b76f",
  "sender_user_id" : "9bcc3a49-c367-483d-ab7a-0679f8e6a437",
  "dispatch_state" : "ACCEPTED",
  "last_state_change" : "2011-06-20T12:32:36.958Z",
}
```

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```

"receiver_agreement_id" : "e0870f7a-09c3-4dab-8eab-8c73828de2f4",
"dispatch_channel" : "str",
"failure_message" : "str"
}

```

## PUT Document Dispatch

### Description

Dispatch a previously saved document. The client can decide on the UUID for the new element.

### Requests

#### Syntax

```

PUT /documents/{documentId}/dispatches/{dispatchId} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
Content-Type: application/json
Content-Length: 1200
Content-MD5: 4gJE4saaMU4BqNR0kLY+lw==

{
  "agreement_id" : "f30ce888-ff93-4f9a-a822-d2d32d90ba76"
}

```

## Operations on Agreements

### GET an Agreement

#### Description

Retrieve an existing EWS or External agreement. The returned structure depends on the kind of agreement.

#### Requests

##### Syntax

```

GET /network/agreements/{agreementId} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature

```

#### Responses

```

// EWS Internal Agreement
{
  "agreement_type": "EWS",
  "agreement_id" : "c991f519-bed0-4dab-9165-6d9f722dc845",
  "created_date" : "2011-06-20T12:32:36.974Z",

```



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```

    "properties" : {
      "str" : "str"
    }
    // Contains the ID of the Account the agreement points to.
    "account_id" : "2011-06-20T12:32:36.974Z",
    "state" : "CREATED"
  }
}

// External Agreement
{
  "agreement_type": "ExternalAgreement",
  "agreement_id" : "13010f3e-3f46-4889-b989-592ce8fb30c6",
  "created_date" : "2011-06-20T12:32:36.973Z",
  "properties" : {
    "str" : "str"
  }
  "company_name" : "str",
  "country" : "str",
  "modified" : "2011-06-20T12:32:36.973Z",
  "identifiers" : [ {
    "scheme" : "str",
    "value" : "str"
  } ],
  "address_lines" : [ {
    "scheme" : "str",
    "value" : "str"
  } ],
  "dispatch_channel_id" : "CEN",
  "first_name" : "str",
  "last_name" : "str",
  "email" : "str",
  "title" : "str",
  "phone" : "str",
  "fax" : "str",
  "language" : "str"
}

```

## PUT an Agreement

### Description

Create a new agreement or update an existing one. The agreement is either an internal EWS agreement or an external agreement.

Return the URL of the created agreement. The location can in some cases contain another agreementId - this happens when creating a new connection to another EWS user, which already exists.

### Requests

#### Syntax

```

PUT /network/agreements/{agreementId} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
Content-Type: application/json
Content-Length: 255
Content-MD5: 4gJE4saaMU4BqNR0kLY+lw==

```

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```

Expect: 100-continue

// EWS Internal Agreement
{
  "agreement_type": "EWS",
  "agreement_id" : "c991f519-bed0-4dab-9165-6d9f722dc845",
  "created_date" : "2011-06-20T12:32:36.974Z",
  "properties" : {
    "str" : "str"
  }
  // Contains the ID of the Account the agreement points to.
  "account_id" : "2011-06-20T12:32:36.974Z",
  "state" : "CREATED"
}

// External Agreement
{
  "agreement_type": "ExternalAgreement",
  "agreement_id" : "13010f3e-3f46-4889-b989-592ce8fb30c6",
  "created_date" : "2011-06-20T12:32:36.973Z",
  "properties" : {
    "str" : "str"
  }
  "company_name" : "str",
  "country" : "str",
  "modified" : "2011-06-20T12:32:36.973Z",
  "identifiers" : [ {
    "scheme" : "str",
    "value" : "str"
  } ],
  "address_lines" : [ {
    "scheme" : "str",
    "value" : "str"
  } ],
  "dispatch_channel_id" : "CEN",
  "first_name" : "str",
  "last_name" : "str",
  "email" : "str",
  "title" : "str",
  "phone" : "str",
  "fax" : "str",
  "language" : "str"
}

```

## Request Headers

Header	Description	Required
Cache-Control	Can be used to specify caching behavior along the request/reply chain. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9">http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.9</a> .  Type: String Default: None Constraints: None	No
Content-Disposition	Specifies presentational information for the object. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec19.html#sec19.5.1">http://www.w3.org/Protocols/rfc2616/rfc2616-sec19.html#sec19.5.1</a> .  Type: String Default: None	No

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	Constraints: None	
Content-Encoding	<p>Specifies what content encodings have been applied to the object and thus what decoding mechanisms must be applied to obtain the media-type referenced by the <i>Content-Type</i> header field. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.11">http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.11</a>.</p> <p>Type: String Default: None Constraints: None</p>	No
Content-Length	<p>The size of the object, in bytes. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.13">http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.13</a>.</p> <p>Type: String Default: None Constraints: None</p>	Yes
Content-MD5	<p>The base64 encoded 128-bit MD5 digest of the message (without the headers) according to RFC 1864. This header can be used as a message integrity check to verify that the data is the same data that was originally sent. Although it is optional, we recommend using the Content-MD5 mechanism as an end-to-end integrity check.</p> <p>Type: String Default: None Constraints: None</p>	No
Content-Type	<p>A standard MIME type describing the format of the contents. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.17">http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.17</a>.</p> <p>Type: String Default: application/octet-stream Valid Values: MIME types Constraints: None</p>	No
Expect	<p>When your application uses 100-continue, it does not send the request body until it receives an acknowledgment. If the message is rejected based on the headers, the body of the message is not sent.</p> <p>Type: String Default: None Valid Values: 100-continue Constraints: None</p>	No
Expires	<p>Number of milliseconds before expiration</p> <p>Type: Integer Default: None Constraints: None</p>	No

## Request Elements

**Internal Agreements:** the agreement structure must contain CompanyAccountId.

**External Agreements:** there must be a CompanyName, Country (2-letter code, complete list in info/countries resource), DispatchChannelId, FirstName, LastName, Email, and AddressLines.

Supported schemes for Identifiers can be found in the info/companytypes resource.

The address must at least have address lines for the country-specific required schemes.

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## Responses

```
HTTP/1.1 100 Continue
HTTP/1.1 200 OK
x-ebz-id-2: b6aed94d-4538-4d50-a87e-33c2784b64b7
x-ebz-request-id: 4477d94d-4538-4d50-a87e-33c2784b64b7
Date: Wed, 12 Oct 2009 17:50:00 GMT
Connection: close
Server: ews.cen.biz
x-ews-agreement-uri: "str"
```

## Response Headers

Header	Description	Required
x-ews-agreement-uri	<p>URL of the created agreement. The location can in some cases contain another agreementId - this happens when creating a new connection to another EWS user, which already exists.</p> <p>Type: String Default: None Constraints: None</p>	Yes

## DELETE an Agreement

### Description

Delete an existing agreement.

### Requests

#### Syntax

```
DELETE /network/agreements/{agreementId} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

## GET Account Agreements

### Description

Returns all agreements in the network of the current user, or find a specific agreement.

### Requests

#### Syntax

```
GET /network/agreements
?accountId={accountId}
&page={page}
&limit={limit} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

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## Request Query Parameters

Property	Description	Required
accountId	Find a specific agreement to a company account. Returns an empty list if there is no connection to the account or a single connection otherwise.  Type: String Default: None	No
limit	Maximum number of results and number of results on each skipped page of results.  Type: Integer Default: 25	No
page	Number of result pages to skip.  Type: Integer Default: 0	No

## Responses

```
{
  "num_pages" : "0",
  "page_id" : "0",
  "items_per_page" : "0",
  "item_count" : "0"
  "agreement" : [ {
    "agreement_id" : "63016caf-d571-43e2-abcd-aa5127b0f17c",
    // The kind of agreement, EWSAgreement or ExternalAgreement.
    "agreement_type" : "str",
    "company_name" : "str",
    // 2-letter country code that uniquely identifies the country.
    "country" : "str",
    "accepting_document_profiles" : [ "str" ],
    "first_name" : "str",
    "last_name" : "str",
    "title" : "str",
    // In case of EWS, contains the ID of the Account the agreement points to.
    "account_id" : "79422761-3b85-4e06-9f2b-a38b503ae9db",
    "email" : "str",
    "state" : "CREATED",
    "properties" : {
      "str" : "str"
    }
  }
} ]
}
```

## POST an Agreement

### Description

Accepts an existing network request, and mark the agreement as accepted with the applicable reverse connection.

### Requests

### Syntax

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```
POST /network/requests/{agreementId}/accept HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

## Operations on Document Profiles

### GET Document Profiles

#### Description

Retrieve a list with the document profiles supported by EWS.

#### Requests

##### Syntax

```
GET /documents/profiles HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

#### Responses

```
{
  "DocumentProfiles" : {
    "id" : "description"
  }
}
```

### GET Document Profile

#### Description

Retrieve description of particular profile.

#### Requests

##### Syntax

```
GET /documents/profiles/{documentProfileId} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

#### Responses

```
{
  "description"
}
```

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## PUT Document Profile

### Description

Create a new document profile.

### Requests

#### Syntax

```
PUT /documents/profiles/{documentProfileId} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

**Note:** This operation is **PRIVATE**, only enabled to internal applications. It could be PUBLIC in the future.

## DELETE Document Profile

### Description

Delete an existing document profile.

### Requests

#### Syntax

```
DELETE /documents/profiles/{documentProfileId} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

**Note:** This operation is **PRIVATE**, only enabled to internal applications. It could be PUBLIC in the future.

## Operations on Notification Resources

### Subscribe to inbox notifications

#### Description

Create or updates a subscription, this action enable applications receive instantly notifications when a document is stored in the inbox as a result of an dispatch.

Return the URL of the created subscription.

### Requests

#### Syntax

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```

PUT /notifications/inbox/{subscriptionId} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
Content-Type: application/json
Content-Length: 255
Content-MD5: 4gJE4saaMU4BqNR0kLY+lw==
Expect: 100-continue

// EWS Inbox Notification Subscription
{
  "description": "my subscription to receive notifications from ews",
  "endpoint" : "http://mydomain/path",
  "http_method" : "POST",
  "authentication_method" : "BASIC",
  "user" : "user",
  "password" : "password",
  "email" : "admin@mydomain"
}

```

## Request Headers

Header	Description	Required
Content-Disposition	Specifies presentational information for the object. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec19.html#sec19.5.1">http://www.w3.org/Protocols/rfc2616/rfc2616-sec19.html#sec19.5.1</a> .  Type: String Default: None Constraints: None	No
Content-Length	The size of the object, in bytes. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.13">http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.13</a> .  Type: String Default: None Constraints: None	Yes
Content-MD5	The base64 encoded 128-bit MD5 digest of the message (without the headers) according to RFC 1864. This header can be used as a message integrity check to verify that the data is the same data that was originally sent. Although it is optional, we recommend using the Content-MD5 mechanism as an end-to-end integrity check.  Type: String Default: None Constraints: None	YES
Content-Type	A standard MIME type describing the format of the contents. For more information, go to <a href="http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.17">http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html#sec14.17</a> .  Type: String Default: application/json Valid Values: MIME types Constraints: None	YES

## Response Headers



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Header	Description	Required
x-ews-subscription-uri	URL of the created subscription.  Type: String Default: None Constraints: None	Yes

## Unsubscribe

### Description

Delete an existing subscription.

### Requests

#### Syntax

```
DELETE /notification/inbox/{subscriptionId} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

## List inbox subscriptions

### Description

Returns all inbox subscriptions

### Requests

#### Syntax

```
GET /notification/inbox
&page={page}
&limit={limit} HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

### Request Query Parameters

Property	Description	Required
limit	Maximum number of results and number of results on each skipped page of results.  Type: Integer Default: 25	No
page	Number of result pages to skip.  Type: Integer Default: 0	No

### Responses

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		Versión	9.0
	<b>EWS – E-COMMERCE REST API</b>		Fecha 26/01/2015

```
{
  "num_pages" : "0",
  "page_id" : "0",
  "items_per_page" : "0",
  "item_count" : "0"
  "subscription" : [ {
    "description": "my subscription to receive notifications from ews",
    "endpoint" : "http://mydomain/path",
    "http_method" : "POST",
    "authentication_method" : "BASIC",
    "user" : "user",
    "password" : "password",
    "email" : "admin@mydomain"
    "created_date" : "2011-06-20T12:32:36.973Z"
  }
} ]
}
```

## Information Operations

### GET Available Channels

#### Description

Get the supported channels by EWS network.

#### Requests

##### Syntax

```
GET /info/channels HTTP/1.1
Host: ews.cen.biz
Date: date
Authorization: EWSUserId:Signature
```

#### Responses

```
{
  "channels" : [ {
    "id" : "CEN",
    "description" : "This channel enables e-commerce operations between EWS and CEN."
  } ]
}
```