*The resources are out there. We make sure they’re not going to waste. This can make all the difference in a company, or an economy.*

# OrderCloud Developer Center Documentation Review

*(A work-in-progress thorough catalog of missing or incomplete items in the docs) - Omar Shehata*

The goal of this document is to outline everything in the documentation that is unclear, requires revision or is missing. It will also include suggestions for making OrderCloud easy to use and understand.

**Observations:**

* Organization structure is divided. Buyer,Group,User needs to demonstrate connectedness. Currently divided between Organization and Buyer.
* Price schedule request body doesn’t contain MinQuantity, but the response does
* There are properties of resources that are only available in response bodies, but those properties are not documented. Ex: order status

**Actions to take:**

**General thoughts:**

* For Delete requests, I think it should be made explicit that they return a 200 if successful.
* Greater emphasis on the fact that the OrderCloud API can be used with any interface. The current tutorials kind of imply using Angular/Nodejs is the only way that’s officially supported. The documentation is not explicit about it.
* Create a pure curl getting started article (showing the bare requests)
* URL routing should be taken of. No way to open new tabs of doc or console links. Should be link in the dashboard

**List of items with no or minimal description:**

* [Security Profiles](https://devcenter.ordercloud.io/docs#SecurityProfiles) has no description.
* [Get a Single Security Profile](https://devcenter.ordercloud.io/docs#SecurityProfiles_Get) has no description.
* [Get a List of Security Profiles](https://devcenter.ordercloud.io/docs#SecurityProfiles_List) has no description.
* [Forgotten Password](https://devcenter.ordercloud.io/docs#PasswordResets) has no description. Possible description: “OrderCloud provides a simple utility to reset a user’s password. It works exactly the way you’d expect. You first send a verification code to the user’s email, then initiate the password reset call using that code. (Will this generate a new password or let them choose?)”
* [Reset Password](https://devcenter.ordercloud.io/docs#PasswordResets_ResetPassword) has no description.
* [Get the Current Authenticated User](https://devcenter.ordercloud.io/docs#Me_Get) has no description. Has no table of response types.
* [Update the Currently Authenticated](https://devcenter.ordercloud.io/docs#Me_Update) User has no description.
* [Patch the Currently Authenticated User](https://devcenter.ordercloud.io/docs#Me_Patch) has no description.
* [List Cost Centers](https://devcenter.ordercloud.io/docs#Me_ListCostCenters) has a minimal description.
* [List User Groups](https://devcenter.ordercloud.io/docs#Me_ListUserGroups) has a minimal description.
* [List Addresses](https://devcenter.ordercloud.io/docs#Me_ListAddresses) has a minimal description.
* [Create Address](https://devcenter.ordercloud.io/docs#Me_CreateAddress) has a minimal description.
* [Get Address](https://devcenter.ordercloud.io/docs#Me_GetAddress) has a minimal description.
* [Update Address](https://devcenter.ordercloud.io/docs#Me_UpdateAddress) has a minimal description.
* [Patch Address](https://devcenter.ordercloud.io/docs#Me_PatchAddress) has a minimal description.
* [Delete Address](https://devcenter.ordercloud.io/docs#Me_DeleteAddress) has a minimal description
* [Create Credit Card](https://devcenter.ordercloud.io/docs#Me_CreateCreditCard) has a minimal description
* [List Credit Cards](https://devcenter.ordercloud.io/docs#Me_ListCreditCards) has a minimal description.
* [Get Credit Card](https://devcenter.ordercloud.io/docs#Me_ListCreditCards) has a minimal description. No way to get by user?
* [Update Credit Card](https://devcenter.ordercloud.io/docs#Me_UpdateCreditCard) has a minimal description. As does [Patch](https://devcenter.ordercloud.io/docs#Me_UpdateCreditCard) and [Delete](https://devcenter.ordercloud.io/docs#Me_DeleteCreditCard).
* [List Categories](https://devcenter.ordercloud.io/docs#Me_ListCategories) to [List Specs](https://devcenter.ordercloud.io/docs#Me_ListSpecs) has a minimal description.
* [Get Spec](https://devcenter.ordercloud.io/docs#Me_GetSpec) to [Create From Temp User](https://devcenter.ordercloud.io/docs#Me_CreateFromTempUser) has no description.
* [Get a Single Order](https://devcenter.ordercloud.io/docs#Orders_Get) has no description.
* [Create New Order](https://devcenter.ordercloud.io/docs#Orders_Create) has no description
* [Create or Update Order](https://devcenter.ordercloud.io/docs#Orders_Update) has no description. Should this replace the Create above?
* [Delete Order](https://devcenter.ordercloud.io/docs#Orders_Delete) has no description.
* [List Outgoing](https://devcenter.ordercloud.io/docs#Orders_ListOutgoing) has no description.
* [List Incoming](https://devcenter.ordercloud.io/docs#Orders_ListIncoming) has no description.
* [Partially Update Order](https://devcenter.ordercloud.io/docs#Orders_Patch) has no description.
* [Submit Order](https://devcenter.ordercloud.io/docs#Orders_Submit) has no description.
* [Approve Order](https://devcenter.ordercloud.io/docs#Orders_Approve) has no description.
* [Decline Order](https://devcenter.ordercloud.io/docs#Orders_Decline) has no description.
* [Cancel Order](https://devcenter.ordercloud.io/docs#Orders_Cancel) has no description.
* [Transfer Temp User Order](https://devcenter.ordercloud.io/docs#Orders_TransferTempUserOrder) has no description. No response either.
* [Get a Single Line Item](https://devcenter.ordercloud.io/docs#LineItems_Get) has no description.
* [Get a List of Line Items](https://devcenter.ordercloud.io/docs#LineItems_List) has no description.
* [Create New Line Item](https://devcenter.ordercloud.io/docs#LineItems_Create) has no description.
* [Create or Update](https://devcenter.ordercloud.io/docs#LineItems_Update) has no description.
* [Delete Line Item](https://devcenter.ordercloud.io/docs#LineItems_Delete) has no description. No response.
* [Partially update line item](https://devcenter.ordercloud.io/docs#LineItems_Patch) has no description.
* [Payments](https://devcenter.ordercloud.io/docs#Payments) has no description.
* [Get a Single Payment](https://devcenter.ordercloud.io/docs#Payments_Get) has no description.
* [Get a List of Payments](https://devcenter.ordercloud.io/docs#Payments_List) has no description.
* [Create New Paymen](https://devcenter.ordercloud.io/docs#Payments_Create)t has no description.
* [Create or Update Payment](https://devcenter.ordercloud.io/docs#Payments_Update) has no description.
* [Delete Payment](https://devcenter.ordercloud.io/docs#Payments_Delete) has no description.
* [Partially Update Payment](https://devcenter.ordercloud.io/docs#Payments_Patch) to [Patch Transaction](https://devcenter.ordercloud.io/docs#Payments_PatchTransaction) has no description.
* [Delete Transacion](https://devcenter.ordercloud.io/docs#Payments_DeleteTransacion) has no description
* [Get a Single Shipment](https://devcenter.ordercloud.io/docs#Shipments_Get) to [Delete Item](https://devcenter.ordercloud.io/docs#Shipments_DeleteItem) has no description.
* [Get a Single Buyer](https://devcenter.ordercloud.io/docs#Buyers_Get) to [Delete Buyer](https://devcenter.ordercloud.io/docs#Buyers_Delete) has no description. Delete Buyer has no response.
* [Get a Single Admin User](https://devcenter.ordercloud.io/docs#AdminUsers_Get) to [Partially Update Admin User](https://devcenter.ordercloud.io/docs#AdminUsers_Patch) has no description.
* [Get a Single Product](https://devcenter.ordercloud.io/docs#Products_Get) to [List Variants](https://devcenter.ordercloud.io/docs#Products_Get) has no description. Generate Variants has no response.
* [Update Variant Inventory](https://devcenter.ordercloud.io/docs#Products_UpdateVariantInventory) to [Get Variant](https://devcenter.ordercloud.io/docs#Products_GetVariant) has no description.
* [Update Inventory](https://devcenter.ordercloud.io/docs#Products_UpdateInventory) to [List Assignments](https://devcenter.ordercloud.io/docs#Products_ListAssignments) has no description.
* [Get a Single Price Schedule](https://devcenter.ordercloud.io/docs#PriceSchedules_Get) to [Delete Price Break](https://devcenter.ordercloud.io/docs#PriceSchedules_DeletePriceBreak) has no description.
* [Get a Single Spec](https://devcenter.ordercloud.io/docs#Specs_Get) to [Delete Product Assignment](https://devcenter.ordercloud.io/docs#Specs_DeleteProductAssignment) has no description.
* [List Options](https://devcenter.ordercloud.io/docs#Specs_ListOptions) to [Post File Data](https://devcenter.ordercloud.io/docs#Files_PostFileData) has no description.
* [Get a Single User](https://devcenter.ordercloud.io/docs#Users_Get) to [Get Access Token](https://devcenter.ordercloud.io/docs#Users_GetAccessToken) has no description.
* [Get a Single User Group](https://devcenter.ordercloud.io/docs#UserGroups_Get) to [Save User Assignment](https://devcenter.ordercloud.io/docs#UserGroups_SaveUserAssignment) has no description.
* [Get a Single Category](https://devcenter.ordercloud.io/docs#Categories_Get) to [Save Assignment](https://devcenter.ordercloud.io/docs#Categories_SaveAssignment) has no description.
* [Get a Single Address](https://devcenter.ordercloud.io/docs#Addresses_Get) to [Save Assignmen](https://devcenter.ordercloud.io/docs#Addresses_SaveAssignment)t has no description.
* [Get a Single Spending Account](https://devcenter.ordercloud.io/docs#SpendingAccounts_Get) to [Delete Assignment](https://devcenter.ordercloud.io/docs#SpendingAccounts_DeleteAssignment) has no description
* [Get a Single Coupon](https://devcenter.ordercloud.io/docs#Coupons_Get) to [Delete Assignment](https://devcenter.ordercloud.io/docs#Coupons_DeleteAssignment) has no description.
* [Get a Single Cost Center](https://devcenter.ordercloud.io/docs#CostCenters_Get) to [Save Assignment](https://devcenter.ordercloud.io/docs#CostCenters_SaveAssignment) has no description.
* [Get a Single Approval Rule](https://devcenter.ordercloud.io/docs#ApprovalRules_Get) to [Partially Update Approval Rule](https://devcenter.ordercloud.io/docs#ApprovalRules_Patch) has no description

**List of typos:**

* ~~In the~~ [~~OAuth 2~~](https://devcenter.ordercloud.io/docs#Overview) ~~section, “supports 2 different workflows; in OAuth terms, grant types” should be “or in OAuth terms, grant types” or “or grant types in OAuth terms”~~
* [~~User Perspective~~](https://devcenter.ordercloud.io/docsUserPerspectiveSection) ~~has a typo. Prodct should be Product.~~
* [~~Set Shipping Address~~](https://devcenter.ordercloud.io/docs#Orders_SetShippingAddress) ~~has a typo around “body.s”.~~
* [~~Delete Transacion~~](https://devcenter.ordercloud.io/docs#Payments_DeleteTransacion) ~~is a typo~~
* ~~Typo in~~ [~~Organization~~](https://devcenter.ordercloud.io/docsOrganizationSection)~~. Assignments are prevalent concept. Missing “a”.~~
* ~~Another typo in~~ [~~Organization~~](https://devcenter.ordercloud.io/docsOrganizationSection)~~. Managability should be manageability~~
* Typo in [Admin Users](https://devcenter.ordercloud.io/docs#AdminUsers). “Users on an Organization level…” should be “Admin users on an Organization level..”
* ~~Typo on~~ [~~Get Inventory~~](https://devcenter.ordercloud.io/docs#Products_GetInventory)~~. “Avalible“ “a product on the a lineitem”. “Ammount”.~~
* ~~In Buyer, All of the GET, PUT stuff etc.. is not properly ‘coded’. (This is copy pasted from Organization. Is this right?)~~

**These are confusing:**

* Apparently, [Create New User](https://devcenter.ordercloud.io/docs#Users_Create) has password “security requirements” ? This is never mentioned in the docs.
* It also claims that SecurityProfileID is optional, but you get an error if you don’t. "The security profile was not found"
* [Get a Single Spending Account](https://devcenter.ordercloud.io/docs#SpendingAccounts_Get) to [Delete Assignment](https://devcenter.ordercloud.io/docs#SpendingAccounts_DeleteAssignment). What does the **Balance** object actually look like? Is a spending account real money? Is it common for a single user to have multiple spending accounts? What are assignments?
* Need clarification for [Spec](https://devcenter.ordercloud.io/docs#Specs). When you say user input, do you mean a buyer user? Are these completely customizable? How does OrderCloud “choose” the correct SKU?
* [List Options](https://devcenter.ordercloud.io/docs#Specs_ListOptions) to [Post File Data](https://devcenter.ordercloud.io/docs#Files_PostFileData). What are files used for? Any upload limits? Formats?

Scratchpad/Draft area

**Overview**

1. Come up with concrete example use-case for [Writable IDs](https://devcenter.ordercloud.io/docs#WritableIDs)? (Maybe more suited to a tutorial..will revisit this)
2. In [Searching](https://devcenter.ordercloud.io/docs#Searching) is there a way to enforce case sensitive search? What about greater than, smaller than, etc.. ? Reading further, they’re all in “Filtering”. Maybe link down there saying “If you want to have more control over your queries, see Filtering below”
3. ~~Unclear on how~~ [~~Paging~~](https://devcenter.ordercloud.io/docs#Paging) ~~works. I think it’s using the wrong code example? Should the fact that it’s capped be a disclaimer in the search/filter sections?~~
4. In [Performance Considerations](https://devcenter.ordercloud.io/docs#Performance) it asks you to “use grouping constructs like User Groups and Categories effectively.” It would be useful to link to what those are and how to use them
5. Maybe somewhere in the overview it should tell you that to even use the API you need to a) create an application b) hook it up with an organization and c) obtain the clientID.
6. Now that I think about it, it isn’t clear how these GET and POST requests are actually being made. Where/how is the clientID sent? I can see it’s configured automatically in the seed application, but how would someone, hypothetically, use OrderCloud without Angular? There should be a section explaining that. (Reading ahead, it looks like this is explained in the Authentication, subsequent headers section. This should really be mentioned earlier, or at least hinted at/linked to). The workflow is not clear.
7. [Creating Things](https://devcenter.ordercloud.io/docs#Creating) has no mention of how to use Writable IDs. Code example would be helpful.
8. Provide a code example for [Creating Things](https://devcenter.ordercloud.io/docs#Creating), [Updating Things](https://devcenter.ordercloud.io/docs#Updating) and [Deleting Things](https://devcenter.ordercloud.io/docs#Deleting).

**Authentication**

1. [Get a Single Security Profile](https://devcenter.ordercloud.io/docs#SecurityProfiles_Get) , You’re supposed to pass in the ID, but where do you get the ID from? Is it “writable” ? Is it supposed to be human readable?
2. [Reset Password](https://devcenter.ordercloud.io/docs#PasswordResets_ResetPassword) It is not clear if this will just return a random password? Is the “Data Model” saying what it will return? How can some things be optional???

Is there a way to create users within the API? (Look into this when reviewing user section)

**User Perspective**

1. [Update the Currently Authenticated](https://devcenter.ordercloud.io/docs#Me_Update) What happens if you change the ID to something that already exists? What about username?
2. [List Cost Centers](https://devcenter.ordercloud.io/docs#Me_ListCostCenters) Is everything really optional? What happens with no arguments? Do you get everything? What is a cost center anyway?
3. [List Addresses](https://devcenter.ordercloud.io/docs#Me_ListAddresses) Would be nice to see a use case.
4. [Get Address](https://devcenter.ordercloud.io/docs#Me_GetAddress) Is there no way to search for address? Or get address of a specific user??
5. [Delete Address](https://devcenter.ordercloud.io/docs#Me_DeleteAddress) Needs explanation for what an “order conflict” is.
6. [Create Credit Card](https://devcenter.ordercloud.io/docs#Me_CreateCreditCard). Why is everything optional? Is there no credit card number? When are you supposed to use this?

**Ordering**

1. Might be helpful if Line Items, Payment Method, etc.. are links to their sections in the [Orders](https://devcenter.ordercloud.io/docs#Orders) description. Tax doesn’t seem to be a header, is it not its own object?
2. [Create New Order](https://devcenter.ordercloud.io/docs#Orders_Create) Unclear what TaxCost is.
3. [List Outgoing](https://devcenter.ordercloud.io/docs#Orders_ListOutgoing) At this point I’m thinking, the original description under Orders hinted that there are various states to orders (Submit, Approve, Ship etc..) but I only see List Outgoing and List Incoming functions. What are all the states and how do you get them?
4. [Approve Order](https://devcenter.ordercloud.io/docs#Orders_Approve). Does the comment get saved with the order itself, or with some new “approval” object? If the former, does it overwrite the current comments on the order? If latter, how do you get it?
5. [Cancel Order](https://devcenter.ordercloud.io/docs#Orders_Cancel)  Is this a special state, or does it go back to as if it were never submitted? It looks from the response like the latter. This should be explicit.
6. [Ship Order](https://devcenter.ordercloud.io/docs#Orders_Ship) is a little confusing. What is this used for? Including a use case would be useful.
7. [Set Shipping Address](https://devcenter.ordercloud.io/docs#Orders_SetShippingAddress) Why is it write only?
8. Including an example scenario for [Line Items](https://devcenter.ordercloud.io/docs#LineItems) would probably be helpful.
9. Would be nice to link to the shortcut in [Set Shipping Address](https://devcenter.ordercloud.io/docs#LineItems_SetShippingAddress) (in Orders above).
10. [Get a Single Shipment](https://devcenter.ordercloud.io/docs#Shipments_Get) to [Delete Item](https://devcenter.ordercloud.io/docs#Shipments_DeleteItem). What are these “Items” ?

**Organization**

1. The last assignments bullet point isn’t very clear to me. When you say “assign 100 Addresses to 50 users”, does that mean each user gets 100, or 2? The problem statement is a little vague, and it’s unclear how groups help manage this.
2. [Get a Single Admin User](https://devcenter.ordercloud.io/docs#AdminUsers_Get) to [Partially Update Admin User](https://devcenter.ordercloud.io/docs#AdminUsers_Patch). It’s unclear how this connects to the “User Perspective/Me” stuff. Does requesting Me tell you whether this is an admin or a buyer? Is that the SecurityProfileID ? Making this explicit would be helpful.
3. Would it be useful to include in [Products](https://devcenter.ordercloud.io/docs#Products) how it connects to the other objects? Where you can use it etc.
4. I don’t think inventories were ever actually explained

**Buyer**

1. Having a use case for [Categories](https://devcenter.ordercloud.io/docs#Categories) would be helpful. Is it purely a backend thing? Would it be visual? Why would you put HTML in a category?
2. So I understand how [Addresses](https://devcenter.ordercloud.io/docs#Addresses) are used for shipping, but how does billing work? Does OrderCloud have payment systems integrated?
3. Are [Coupons](https://devcenter.ordercloud.io/docs#Coupons) generally more for consumer or b2b user? How are they redeemed? Does it have a built in interface? How are they assigned? What if you want to assign the same coupon to multiple users?
4. An example use case of [Cost Centers](https://devcenter.ordercloud.io/docs#CostCenters) would be valuable. Are they automatically tied to transactions? Do they automatically log things? Is that what they’re for? Just logging?
5. There should definitely be a tutorial or examples on how [Approval Rules](https://devcenter.ordercloud.io/docs#ApprovalRules) work. There’s no mention of what a **RuleExpression** looks like, or whether there’s like an interface for approving these? Is it just admins that approve? Can you assign managers the power to approve?