

# CWS API Samples for SaaS (WC)

CWS Reseller Extensions are API methods exposed to Resellers of cloud services under a distributor or marketplace owner to provide custom experiences for their End customers.

**BASE URL:** [cws.cloud-marketplace.jp](https://cws.cloud-marketplace.jp)

NOTE

1) For every web-service call we should include Reseller API KEY and SECRET in headers as Basic Authentication

**Example :** Content-Type:application/json

Authorization:Basic [Encoded API KEY and SECRET]

2) For customer related APIs customer should pass the x-auth-token in headers which can retrieved from Create Customer Token

**Example :** Content-Type:application/json

Authorization: [Encoded API KEY and SECRET]

x-auth-token: [x-auth-token]

## Create Customer Token

Customer token is required to perform actions on customer account and other api actions

Use following API to generate Customer Token

Action	API	Sample request
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Create Customer token	<b>POST /createtoken</b>  <b>Pass API KEY AND API SECRET as Basic Authorization in headers.</b>	<b>Request</b> <pre>{   "userid":["userid"],   "accountid":["accountid"] }</pre> <b>Response</b> <pre>{   "result": {     "response": {       "respcode": 200,       "x-auth-token": ["x-auth-token"]     },     "success": true,     "message": "Customer x-auth-token created successfully"   } }</pre> <b>Error Response</b> <pre>// API KEY or API SECRET error {   "result": {     "response": {       "errorcode": 401,       "errormessage": "Invalid API KEY or API SECRET",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre>
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## Account and User Management

Action	API	Sample
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Create Account	POST /api/account	<b>Request</b> <pre> {   "accountname": "[accountname]",   "phone": "[companyphone]",   "userinfo": {     "firstname": "[firstname]",     "lastname": "[lastname]",     "email": "[email]",     "role": "[role]",     "phone": "[personalphone]",     "password": "[password]"   },   "address": {     "addressline1": "[addressline1]",     "addressline2": "[addressline2]",     "city": "[city]",     "state": "[state]",     "postalcode": "[postalcode]",     "country": "[country]"   },   "additionalattributes": {     "billingaddress": {       "companyname": ["companyName"],       "Address1": ["address"],       "Address2": ["address"],       "City": ["city"],       "State": ["state"],       "ZipCode": ["zipcode"],       "Country": ["country"],       "fax": ["fax"],       "email_id": ["email"],       "department": ["department"],       "FirstName": ["firstname"],       "LastName": ["lastname"]     },     "contractinfo": {       "department": ["department"],       "person_name": ["incharge"],       "phone": ["phone"],       "email_id": ["email"]     },     "invoiceinfo": {       "companyname": ["companyname"],       "postcode": ["postcode"],       "state": ["state"],       "address1": ["address1"],       "address2": ["address2"],       "phone": ["phone"],       "fax": ["fax"], </pre>
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		<pre>        "email": ["email"],         "department": ["department"],         "firstname": ["firstname"],         "lastname": ["lastname"]     },     "quotinginfo": {         "companyname": ["companyname"],         "postcode": ["postcode"],         "state": ["state"],         "address1": ["address1"],         "address2": ["address2"],         "phone": ["phone"],         "fax": ["fax"],         "email": ["email"],         "department": ["department"],         "note": ["note"]     },     "custominfo": {         "param1":["param1"],         "param2":["param2"]     },     "externalreferences": {         "referenceaccountid": ["referenceaccountid"],         "accountmanagerid": ["accountmanagerid"],         "accountmanager": ["accountmanager"],         "accountmanageruserid": ["accountmanageruserid"]     } } }</pre> <p><b>Response</b></p> <pre>{     "result":{         "response": {              "accountid":"[accountid]",             "respcode" :200         },         "success":true,         "message":"Account created successfully"     } }</pre> <p><b>Error Response</b></p> <pre>//Duplicate email error {     "result": {         "response": {</pre>
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		<pre>        "respcode": 400     },     "success": false,     "message": {         "reason": "Username must be unique - Email already exists in the system"     } }  //Duplicate account name error {     "result": {         "response": {             "respcode": 400         },         "success": false,         "message": {             "reason": "AccountName must be unique - Account Name already exists in the system"         }     } }</pre>
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<p>Update Account</p>	<p>PUT <b>/api/account</b></p> <p><b>NOTE: This API needs customer token</b></p>	<p><b>Request</b></p> <pre>{   "accountname":"[accountname]",   "phone":"[companyphone]",   "address":{     "addressline1":"[addressline1]",     "addressline2":"[addressline1]",     "city":"[city]",     "state":"[state]",     "postalcode":"[postalcode]",     "country":"[country]"   },   "additionalattributes": {     "billingaddress": {       "companyname": ["companyName"],       "Address1": ["address"],       "Address2": ["address"],       "City": ["city"],       "State": ["state"],       "ZipCode": ["zipcode"],       "Country": ["country"],       "fax": ["fax"],       "email_id": ["email"],       "department": ["department"],       "FirstName": ["firstname"],       "LastName": ["lastname"]     },     "contractinfo": {       "department": ["department"],       "person_name": ["incharge"],       "phone": ["phone"],       "email_id": ["email"]     },     "invoiceinfo": {       "companyname": ["companyname"],       "postcode": ["postcode"],       "state": ["state"],       "address1": ["address1"],       "address2": ["address2"],       "phone": ["phone"],       "fax": ["fax"],       "email": ["email"],       "department": ["department"],       "firstname": ["firstname"],       "lastname": ["lastname"]     }   } }</pre>
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		<pre>        "quotinginfo": {             "companyname": ["companyname"],             "postcode": ["postcode"],             "state": ["state"],             "address1": ["address1"],             "address2": ["address2"],             "phone": ["phone"],             "fax": ["fax"],             "email": ["email"],             "department": ["department"],             "note": ["note"]         },         "custominfo": {             "param1":["param1"],             "param2":["param2"]         },         "externalreferences": {             "referenceaccountid": ["referenceaccountid"],             "accountmanagerid": ["accountmanagerid"],             "accountmanager": ["accountmanager"],             "accountmanageruserid": ["accountmanageruserid"]         }     },     "requestor":{         "accountid":"[accountid]"     } }  <b>Response</b> {     "result":{         "response": {  "accountid":"123456789",             "respcode" :200          },         "success":true,         "message":"Account updated successfully"     } }  <b>Error Response</b> // Invalid account id error {     "result": {         "response": {             "errormessage": "Account not exists",             "respcode": 400         },     }, }</pre>
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		<pre>        "success": false,         "message": "failed to update Account"     } }  //API KEY or API SECRET error {     "result": {         "response": {             "errorMessage": "Invalid API KEY or API SECRET",             "respcode": 401         }     },     "success": false,     "message": "Authentication failed" }  //Invalid x-auth-token error {     "result": {         "response": {             "errorMessage": "Invalid x-auth-token ",             "respcode": 401         }     },     "success": false,     "message": "Authentication failed" }  //x-auth-token error {     "result": {         "response": {             "errorMessage": "Need to pass x-auth-token",             "respcode": 401         }     },     "success": false,     "message": "Authentication failed" }</pre>
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Delete Account	DELETE /api/account	<p><b>Request</b></p> <pre>{   "accountid":"32323232" }</pre> <p><b>Response</b></p> <pre>{   "result":{     "response": {       "accountid":"123456789",       "respcode" :200     },     "success":true,     "message":"Account deleted successfully"   } }</pre> <p><b>Error Response</b></p> <pre>{   "result":{     "response":{       "errormessage":"The account doesn't exist.",       "respcode" :404     },     "success":false,     "message":"Account deletion failed"   } }</pre>
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Get an Account	<p>GET /api/getaccount/:accountid</p> <p><b>NOTE: This API needs customer token</b></p>	<p><b>Request</b> Get accountid from URL param</p> <p><b>Response</b></p> <pre>{   "result": {     "response": {       "respcode": 200,       "accounts": [         {           "accountname": "ntcustomer",           "accountstatus": "active",           "accounttype": "customer",           "additionalattributes": {             "BillingAddress": {               "Address1": "ntcustomer",               "Address2": "ntcustomer",               "City": "ntcustomer",               "State": "ntcustomer",               "ZipCode": "ntcustom",               "Country": "JP",               "company": "ntcustomer",               "phone": "ntcustomer",               "fax": "",               "department": "ntcustomer",</pre>
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		<pre>        "FirstName": "ntcustomer",          "LastName": "ntcustomer",          "email_id":         "ntcustomer@yopmail.com"          },          "ContractInfo": {              "department":             "ntcustomer",              "person_name":             "ntcustomer",              "phone":             "ntcustomer",              "email_id":             "ntcustomer@yopmail.com"              }          },          "adminname": "ntcustomer ntcustomer",          "catalog_type": [              "Corporate"          ],          "channelcode":         "NTTPC0704",          "createdate": "2017-07- 23T14:35:42.932Z",          "externalreferences": {              "referenceaccountid":             "3435",</pre>
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		<pre>        "company_myno": "3243546576576"          },          "parentid": "dfb1030c- f0da-4d9a-9281-a2bd45b7a801",          "parenttype": "reseller",          "phone": "ntcustomer",          "updatedate": "2017-07- 23T14:35:42.932Z",          "accountid": "0f5b2c41- 9a25-49b3-a9e8-8e539ce3cbc3",          "profile": {              "name": "ntcustomer",              "email": "ntcustomer@yopmail.com",              "address": {                  "address1": "ntcustomer",                  "address2": "ntcustomer",                  "city": "ntcustomer",                  "state": "ntcustomer",                  "country": "JP",                  "zip": "ntcustom",                  "phone": "ntcustomer"              },              "accounttype": "customer",</pre>
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		<pre>        "accountname": "ntcustomer",          "channelcode": "NTTPC0704",          "externalreferences": {              "referenceaccountid": "3435",              "company_myno": "3243546576576"          },          "catalog_type": [              "Corporate"          ],          "adminname": "ntcustomer ntcustomer",          "parentid": "dfb1030c-f0da-4d9a-9281- a2bd45b7a801",          "parenttype": "reseller",          "additionalattributes": {              "BillingAddress": {                  "Address1": "ntcustomer",                  "Address2": "ntcustomer",                  "City": "ntcustomer",                  "State": "ntcustomer",</pre>
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		<pre>    ],     "success": true,     "message": "Account retrieved successfully"   } }</pre> <p><b>Error Response</b> Note:Error response if invalid account is passed in URL params</p> <pre>{   "result": {     "response": {       "respcode": 400,       "error": "Account not exists"     },     "success": false,     "message": "Account retrieving failed"   } }</pre> <p>//API KEY or API SECRET error</p> <pre>{   "result": {     "response": {       "errorcode": 401,       "errormessage": "Invalid API KEY or API SECRET",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre> <p>//Invalid x-auth-token error</p> <pre>{   "result": {     "response": {       "errormessage": "Invalid x-auth-token ",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre> <p>//Error response if x-auth-token is not passed in headers</p> <pre>{</pre>
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		<pre>"result": {   "response": {     "errormessage": "Need to pass x-auth-token",     "respcode": 401   } }, "success": false, "message": "Authentication failed" }</pre>
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Get All Accounts	GET /api/account  GET api/account?accounttype=[accounttype]& accountstatus=[status]	<b>Response</b> <pre> {   "result": {     "response": {       "respcode": 200,       "accounts": [         [           {             "accountid": "[accountid]",             "accountname": "[accountname]",             "accountstatus": "active",             "accounttype": "customer",             "additionalattributes": {               "BillingAddress": {                 "Address1": "261 Shinmonzen dori",                 "Address2": "Umemotocho,",                 "City": "Higashiyama-ku",                 "State": "Tokyo",                 "ZipCode": "605-0064",                 "Country": "JP",                 "company": "account3",                 "phone": "3243546333",                 "fax": "",                 "department": "account3",                 "FirstName": "accountttt",                 "LastName": "accountttt",                 "email_id": "account3@yopmail.com"               },               "ContractInfo": {                 "department": "account3",                 "person_name": "accountttt",                 "phone": "123654789",                 "email_id": "account3@yopmail.com"               }             }           }         ]       ]     }   } } </pre>
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		<pre> "adminname": "accountttt accountttt",   "catalog_type": [     "Corporate"   ],   "channelcode": "NTTPC0704",   "createdate": "2017- 07-06T14:11:51.090Z",   "externalreferences": {   "referenceaccountid": "2521",     "company_myno": "1236325417878"   },   "parentid": "dfb1030c-f0da-4d9a-9281- a2bd45b7a801",   "parenttype": "reseller",   "phone": "142536987",   "updatedate": "2017- 07-06T14:11:51.090Z",   "accountid": "05e3f29b-cca5-47e0-82f9- 44cb8d8a6d9d",   "profile": {     "name": "account",     "email": "account3@yopmail.com",     "address": {       "address1": "261 Shinmonzen dori",       "address2": "Umemotocho,",       "city": "Higashiyama-ku",       "state": "Tokyo",       "country": "JP",       "zip": "605- 0064",       "phone": "142536987"     },     "accounttype": "customer",     "accountname": "account",     "channelcode": "NTTPC0704",     "externalreferences": {       "referenceaccountid": "2521", </pre>
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		<pre> "company_myno": "1236325417878" }, "catalog_type": [ "Corporate" ], "adminname": "accountttt accountttt", "parentid": "dfb1030c-f0da-4d9a-9281- a2bd45b7a801", "parenttype": "reseller", "BillingAddress": { "Address1": "261 Shinmonzen dori", "Address2": "Umemotocho,", "City": "Higashiyama-ku", "State": "Tokyo", "ZipCode": "605- 0064", "Country": "JP", "company": "account3", "phone": "3243546333", "fax": "", "department": "account3", "FirstName": "accountttt", "LastName": "accountttt", "email_id": "account3@yopmail.com" }, "ContractInfo": { "department": "account3", "person_name": "accountttt", "phone": "123654789", "email_id": "account3@yopmail.com" } }, { "accountname": "ntcustomer", "accountstatus": "active", </pre>
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		<pre> "accounttype": "customer", "additionalattributes": {   "BillingAddress": {     "Address1": "ntcustomer",     "Address2": "ntcustomer",     "City": "ntcustomer",     "State": "ntcustomer",     "ZipCode": "ntcustom",     "Country": "JP",     "company": "ntcustomer",     "phone": "ntcustomer",     "fax": "",     "department": "ntcustomer",     "FirstName": "ntcustomer",     "LastName": "ntcustomer",     "email_id": "ntcustomer@yopmail.com"   },   "ContractInfo": {     "department": "ntcustomer",     "person_name": "ntcustomer",     "phone": "ntcustomer",     "email_id": "ntcustomer@yopmail.com"   } }, "adminname": "ntcustomer ntcustomer", "catalog_type": [   "Corporate" ], "channelcode": "NTTPC0704", "createdate": "2017- 07-23T14:35:42.932Z", "externalreferences": { "referenceaccountid": "3435",   "company_myno": "3243546576576" </pre>
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		<pre> }, "parentid": "dfb1030c-f0da-4d9a-9281- a2bd45b7a801", "parenttype": "reseller", "phone": "ntcustomer", "updatedate": "2017- 07-23T14:35:42.932Z", "profile": { "name": "ntcustomer", "email": "ntcustomer@yopmail.com", "address": { "address1": "ntcustomer", "address2": "ntcustomer", "city": "ntcustomer", "state": "ntcustomer", "country": "JP", "zip": "ntcustom", "phone": "ntcustomer" }, "accounttype": "customer", "accountname": "ntcustomer", "channelcode": "NTTPC0704", "externalreferences": { "referenceaccountid": "3435", "company_myno": "3243546576576" }, "catalog_type": [ "Corporate" ], "adminname": "ntcustomer ntcustomer", "parentid": "dfb1030c-f0da-4d9a-9281- a2bd45b7a801", "parenttype": "reseller", "additionalattributes": { </pre>
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		<pre> "BillingAddress": {     "Address1": "ntcustomer",     "Address2": "ntcustomer",     "City": "ntcustomer",     "State": "ntcustomer",     "ZipCode": "ntcustom",     "Country": "JP",     "company": "ntcustomer",     "phone": "ntcustomer",     "fax": "",     "department": "ntcustomer",     "FirstName": "ntcustomer",     "LastName": "ntcustomer",     "email_id": "ntcustomer@yopmail.com" },     "ContractInfo": {         "department": "ntcustomer",         "person_name": "ntcustomer",         "phone": "ntcustomer",         "email_id": "ntcustomer@yopmail.com"     } }, {     "accountname": "CWS RESELLER",      "accountid": "1805392f- 799e-49eb-9bb5-9ab8a7f20568",     "accountstatus": "active",     "accounttype": "customer",      "additionalattributes": {         "BillingAddress": {             "Address1": "261 Shinmonzen dori", </pre>
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		<pre> no 105", "Address2": "Flat "City": "Tokyo", "State": "CA", "ZipCode": "605- 0064", "Country": "US", "FAX": "989- 8788657", "Email": "actcorp@example.com", "Department": "Accounts", "FirstName": "arjun" }, "ContractInfo": { "Department": "Accounting5", "Incharge": "test", "Phone": "22222222", "Email": "actcorp@example.com" }, "InvoiceInfo": { "CompanyName": "Newact", "PostCode": "65667656", "State": "Andhraa", "Address1": "jublee hills , Hitech city,hyderabad", "Address2": "jublee hills , Hitech city,hyderabad", "Phone": "887877657", "Email": "ivncorp@example.com", "Department": "Accounts", "LastName": "new" }, "QuotingInfo": { "CompanyName": "NTTPCTEST", "PostCode": "65667656", "State": "Andhraa", </pre>
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		<pre> "Address1": "jublee hills , Hitech city,hyderabad", "Address2": "jublee hills , Hitech city,hyderabad", "Phone": "887877657", "FAX": "989- 8788657", &gt;Email": "arjun@gmail.com", "Department": "Accounts", &gt;Note": "Important" }, "CustomInfo": { "CompanyName": "NTTPC5", "PostCode": "65667656", "State": "Andhraa", "Address1": "jublee hills , Hitech city,hyderabad", "Address2": "jublee hills , Hitech city,hyderabad", "Phone": "887877657" } }, "catalog_type": [ "Corporate" ], "channelcode": "NTTPC0704", "createdate": "2017- 07-26T19:22:07.030Z", "externalreferences": { "referenceaccountid": "346543344", "company_myno": "34654687687438", "accountmanagerid": "6", "accountmanager": "5", "accountmanageruserid": "5325" }, </pre>
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		<pre> "parentid": "dfb1030c-f0da-4d9a-9281- a2bd45b7a801", "parenttype": "reseller", "phone": "1234567890", "updatedate": "2017- 07-26T19:22:07.030Z", "profile": { "firstname": "New", "lastname": "test", "name": "CWS RESELLER", "email": "cwsp@example.com", "address": { "address1": "261 Shinmonzen dori", "address2": "Saroornagar", "city": "test", "state": "Tokyo", "country": "Japan", "zip": "605- 0064", "phone": "1234567890" }, "accounttype": "customer", "accountname": "CWS RESELLER", "channelcode": "NTTPC0704", "externalreferences": { "referenceaccountid": "346543344", "company_myno": "34654687687438", "accountmanagerid": "6", "accountmanager": "5", "accountmanageruserid": "5325" }, "catalog_type": [ "Corporate" ], "parentid": "dfb1030c-f0da-4d9a-9281- a2bd45b7a801", </pre>
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		<pre> "parenttype": "reseller", "additionalattributes": {   "BillingAddress":   {     "Address1":     "261 Shinmonzen dori",     "Address2":     "Flat no 105",     "City":     "Tokyo",     "State": "CA",     "ZipCode":     "605-0064",     "Country":     "US",     "FAX": "989- 8788657",     "Email":     "actcorp@example.com",     "Department":     "Accounts",     "FirstName":     "arjun"   },   "ContractInfo": {     "Department":     "Accounting5",     "Incharge":     "test",     "Phone":     "22222222",     "Email":     "actcorp@example.com"   },   "InvoiceInfo": {     "CompanyName":     "Newact",     "PostCode":     "65667656",     "State":     "Andhraa",     "Address1":     "jublee hills , Hitech city,hyderabad",     "Address2":     "jublee hills , Hitech city,hyderabad",     "Phone":     "887877657",     "Email":     "ivncorp@example.com",     "Department":     "Accounts", </pre>
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		<pre> "new" "LastName": }, "QuotingInfo": { "CompanyName": "NTTPCTEST", "PostCode": "65667656", "State": "Andhraa", "Address1": "jublee hills , Hitech city,hyderabad", "Address2": "jublee hills , Hitech city,hyderabad", "Phone": "887877657", "FAX": "989- 8788657", "Email": "arjun@gmail.com", "Department": "Accounts", "Note": "Important" }, "CustomInfo": { "CompanyName": "NTTPC5", "PostCode": "65667656", "State": "Andhraa", "Address1": "jublee hills , Hitech city,hyderabad", "Address2": "jublee hills , Hitech city,hyderabad", "Phone": "887877657" } }, { "accountname": "zaza", "accountid": "1805392f- 799e-49eb-9bb5-9ab8a7f20568", "accountstatus": "active", "accounttype": "customer", </pre>
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		<pre> "additionalattributes": {   "BillingAddress": {     "Address1": "261 Shinmonzen dori",     "Address2": "",     "City": "Higashiyama-ku",     "State": "Kanagawa",     "ZipCode": "641- 0259",     "Country": "JP",     "company": "zaza",     "phone": "6546576576",     "fax": "",     "department": "zaza",     "FirstName": "zaza",     "LastName": "zaza",     "email_id": "zaza@yopmail.com"   },   "ContractInfo": {     "department": "zaza",     "person_name": "zaza",     "phone": "465798989",     "email_id": "zaza@yopmail.com"   } }, "adminname": "ZazaZaza", "catalog_type": [   "Corporate" ], "channelcode": "NTTPC0704", "createdate": "2017- 07-23T18:06:15.157Z", "externalreferences": {   "company_myno": "2136578452145", "referenceaccountid": "2487" }, </pre>
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		<pre>         "parentid": "dfb1030c-f0da-4d9a-9281- a2bd45b7a801",         "parenttype": "reseller",         "phone": "+811222223",         "updatedate": "2017- 07-23T18:06:15.157Z",         "updatetime": "2017- 07-23T18:09:32.970Z",         "profile": {             "accountname": "zaza",             "companyname": "zaza",             "purposeofaccount": null,             "comments": "",             "name": "zaza",             "firstname": "Zaza",             "lastname": "Zaza",             "email": "zaza@yopmail.com",             "address": {                 "address1": "261 Shinmonzen dori",                 "address2": "",                 "city": "Higashiyama-ku",                 "state": "Kanagawa",                 "zip": "641- 0259",                 "country": "JP",                 "phone": null             },             "accounttype": "customer",             "channelcode": "NTTPC0704",             "adminname": "ZazaZaza",             "parentid": "dfb1030c-f0da-4d9a-9281- a2bd45b7a801",             "parenttype": "reseller",             "externalreferences": {                 "company_myno": "2136578452145"             },             "catalog_type": [                 "Corporate"             ]         } </pre>
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		<pre>     ]   },   {     "accountname": "CRT corp",     "accountstatus": "active",     "accounttype": "customer",     "additionalattributes": {       "BillingAddress": {         "Address1": "261 Shinmonzen dori",         "Address2": "Flat no 105",         "City": "Tokyo",         "State": "CA",         "ZipCode": "605- 0064",         "Country": "US",         "FAX": "989- 8788657",         "Email": "crt@example.com",         "Department": "Accounts",         "FirstName": "arjun"       },       "ContractInfo": {         "Department": "Accounting5",         "Incharge": "test",         "Phone": "22222222",         "Email": "actcorp@example.com"       },       "InvoiceInfo": {         "CompanyName": "Newact",         "PostCode": "65667656",         "State": "Andhraa",         "Address1": "jublee hills , Hitech city,hyderabad",         "Address2": "jublee hills , Hitech city,hyderabad",         "Phone": "887877657", </pre>
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		<pre>         "Email": "ivncorp@example.com",         "Department": "Accounts",         "LastName": "new"     },     "QuotingInfo": {         "CompanyName": "NTTPCTEST",         "PostCode": "65667656",         "State": "Andhraa",         "Address1": "jublee hills , Hitech city,hyderabad",         "Address2": "jublee hills , Hitech city,hyderabad",         "Phone": "887877657",         "FAX": "989- 8788657",         "Email": "crt@gmail.com",         "Department": "Accounts",         "Note": "Important"     },     "CustomInfo": {         "CompanyName": "NTTPC5",         "PostCode": "65667656",         "State": "Andhraa",         "Address1": "jublee hills , Hitech city,hyderabad",         "Address2": "jublee hills , Hitech city,hyderabad",         "Phone": "887877657"     } }, "catalog_type": [     "Corporate" ], "channelcode": "NTTPC0704", "createdate": "2017- 07-21T10:10:25.519Z", "externalreferences": { </pre>
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		<pre> "referenceaccountid": "346543344",     "company_myno": "34654687687468",     "accountmanagerid": "6",     "accountmanager": "5",  "accountmanageruserid": "5325"     },     "parentid": "dfb1030c-f0da-4d9a-9281- a2bd45b7a801",     "parenttype": "reseller",     "phone": "1234567890",     "updatedate": "2017- 07-21T10:10:25.519Z",     "accountid": "f8159544-2ded-4a08-ad2b- eb7019c8332f",     "profile": {         "firstname": "New",         "lastname": "test",         "name": "CRT corp",         "email": "crt@example.com",         "address": {             "address1": "261 Shinmonzen dori",             "address2": "Saroornagar",             "city": "test",             "state": "Tokyo",             "country": "Japan",             "zip": "605- 0064",             "phone": "1234567890"         },         "accounttype": "customer",         "accountname": "CRT corp",         "channelcode": "NTTPC0704",  "externalreferences": {     "referenceaccountid": "346543344", </pre>
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		<pre> "company_myno": "34654687687468",  "accountmanagerid": "6", "accountmanager": "5",  "accountmanageruserid": "5325" }, "catalog_type": [ "Corporate" ], "parentid": "dfb1030c-f0da-4d9a-9281- a2bd45b7a801", "parenttype": "reseller",  "additionalattributes": { "BillingAddress": { "Address1": "261 Shinmonzen dori", "Address2": "Flat no 105", "City": "Tokyo", "State": "CA", "ZipCode": "605-0064", "Country": "US", "FAX": "989- 8788657", &gt;Email": "crt@example.com", &gt;Department": "Accounts", &gt;FirstName": "arjun" }, "ContractInfo": { "Department": "Accounting5", &gt;Incharge": "test", &gt;Phone": "22222222", &gt;Email": "actcorp@example.com" }, "InvoiceInfo": { "CompanyName": "Newact", &gt;PostCode": "65667656", </pre>
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		<pre> "State": "Andhraa", "Address1": "jublee hills , Hitech city,hyderabad", "Address2": "jublee hills , Hitech city,hyderabad", "Phone": "887877657", "Email": "ivncorp@example.com", "Department": "Accounts", "LastName": "new" }, "QuotingInfo": { "CompanyName": "NTTPCTEST", "PostCode": "65667656", "State": "Andhraa", "Address1": "jublee hills , Hitech city,hyderabad", "Address2": "jublee hills , Hitech city,hyderabad", "Phone": "887877657", "FAX": "989- 8788657", "Email": "crt@gmail.com", "Department": "Accounts", "Note": "Important" }, "CustomInfo": { "CompanyName": "NTTPC5", "PostCode": "65667656", "State": "Andhraa", "Address1": "jublee hills , Hitech city,hyderabad", "Address2": "jublee hills , Hitech city,hyderabad", "Phone": "887877657" </pre>
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		<pre>        }       }     }   ] ] }, "success": true, "message": "Account retrieved successfully" } }  <b>Error Response</b> //API KEY or API SECRET error {   "result": {     "response": {       "errormessage": "Invalid API KEY or API SECRET",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }  //Invalid x-auth-token error {   "result": {     "response": {       "errormessage": "Invalid x-auth-token ",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }  //x-auth-token error {   "result": {     "response": {       "errormessage": "Need to pass x-auth-token",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" } }</pre>
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Create User	<div>POST /api/user</div> <div>NOTE: This API needs customer token</div>	<div><b>Request</b></div> <pre>{   "firstname":"[firstname]",   "lastname":"[lastname]",   "email":"[email]",   "phone":["personalphone"],   "role":["role"],   "password":["password"],   "requestor":{     "accountid":"[accountid]"   } }</pre> <div><b>Response</b></div> <pre>{   "result": {     "response": {       "respcode": 201,       "userid": "20752698"     },     "success": true,     "message": "User created successfully"   } }</pre> <div><b>Error Response</b></div> <pre>//User already exists error {   "result": {     "response": {       "respcode": 400,       "errormessage": "The email address already exists"     },     "success": false,     "message": "User creation failed"   } }</pre> <pre>//Error response if invalid API KEY or API SECRET is passed {   "result": {     "response": {       "errormessage": "Invalid API KEY or API SECRET",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre>
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		<pre>//Invalid x-auth-token error {   "result": {     "response": {       "errormessage": "Invalid x-auth-token ",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" } //x-auth-token error {   "result": {     "response": {       "errormessage": "Need to pass x-auth-token",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre>
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Update user	<div>PUT /api/user</div> <div>NOTE: This API needs customer token</div>	<div><div>Request</div><pre>{   "firstname":"[firstname]",   "lastname":"[lastname]",   "phone":"[personalphone]",   "role":"[role]",   "password":["password"],   "requestor":{     "accountid":"[accountid]",     "userid":"[userid]"   } }</pre></div> <div><div>Response</div><pre>{   "result":{     "response": {       "userid":"123456789",       "respcode" :200     },     "success":true,     "message":"User updated successfully"   } }</pre></div> <div><div>Error Response</div><pre>{   "result": {     "response": {       "errorMessage": "user not exist",       "respcode": 400     },     "success": false,     "message": "failed to update user"   } }</pre></div> <div><div>//x-auth-token error</div><pre>{   "result": {     "response": {       "errorMessage": "Need to pass x-auth-token",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre></div>
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		<pre>//Invalid x-auth-token error {   "result": {     "response": {       "errorMessage": "Invalid x-auth-token ",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }  //invalid API key and API secret error {   "result": {     "response": {       "errorMessage": "Invalid API KEY or API SECRET",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre>
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<p>Delete User</p>	<p><b>DELETE /api/user/:userid</b></p> <p><b>NOTE: This API needs customer token</b></p>	<p><b>Response</b></p> <pre>{   "result": {     "response": {       "respcode": 200,       "userid": "5752ea99-4b56-4d8d-b2f4-ffba68c9ab30"     },     "success": true,     "message": "User deleted successfully"   } }</pre> <p><b>Error Response</b></p> <pre>{   "result":{     "response":{  "errorMessage":"The user doesn't exist.",       "respcode" :404     },     "success":false,     "message":"User deletion failed"   } }</pre> <p>//x-auth-token error</p> <pre>{   "result": {     "response": {       "errorMessage": "Need to pass x-auth-token",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre> <p>//Invalid x-auth-token error</p> <pre>{   "result": {     "response": {       "errorMessage": "Invalid x-auth-token ",       "respcode": 401     }   },   "success": false,</pre>
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		<pre>        "message": "Authentication failed"     }      //invalid API key and API secret error     {         "result": {             "response": {                 "errormessage": "Invalid API KEY or API SECRET",                 "respcode": 401             }         },         "success": false,         "message": "Authentication failed"     } }</pre>
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<p>Get a user</p>	<p>GET /userinfo/:userid</p> <p><b>NOTE: This API needs customer token</b></p>	<p><b>Request</b> Get userid from URL param</p> <p><b>Response</b></p> <pre>{   "result":{     "response": {       "respcode" :200,       "users":[         {           "firstname":"[firstname]",           "lastname":"[lastname]",           "email":"[email]",           "phone":"[personalphone]",           "role":["role"]         }       ],       "success":true,       "message":"User retrieved successfully"     }   } }</pre> <p><b>Error Response</b></p> <pre>{   "result": {     "response": {       "respcode": 403,       "errorcode": "BZSSS1452E",       "errormessage": "The user is not authorized to perform this operation."     },     "success": false,     "message": "The user is not authorized to perform this operation."   } }</pre> <p>//x-auth-token error</p> <pre>{   "result": {     "response": {       "errormessage": "Need to pass x-auth-token",       "respcode": 401     }   },   "success": false,</pre>
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		<pre>"message": "Authentication failed" }  //Invalid x-auth-token error {   "result": {     "response": {       "errormessage": "Invalid x-auth-token ",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }  //invalid API key and API secret error {   "result": {     "response": {       "errormessage": "Invalid API KEY or API SECRET",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre>
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Get All users belong to particular account	GET /usersinfo/:accountid	<p><b>Request</b></p> <p><b>Response</b></p> <pre>{   "result":{     "response": {       "respcode" :200,       "users":[         {           "firstname":"[firstname]",           "lastname":"[lastname]",           "email":"[email]",           "phone":"[personalphone]",           "role":["role"]         }       ],       "success":true,       "message":"Users retrieved successfully"     }   } }</pre> <p><b>Error Response</b></p> <pre>{   "result": {     "response": {       "errorcode": 400,       "errormessage": {         "reason": "Account not exists"       },       "respcode": 400     },     "success": false,     "message": "User retrieval failed"   } }</pre>
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Invoice data

Action	API	
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<p>GET invoices of a customer</p>	<p>GET /accountinvoice?accountId=&lt;accountid&gt;</p> <p>GET /accountinvoice?accountId=&lt;accountid&gt;&amp;startdate=&lt;startdate&gt;&amp;enddate=&lt;enddate&gt;</p> <p>GET /accountinvoice?accountId=&lt;accountid&gt;&amp;startdate=&lt;startdate&gt;&amp;enddate=&lt;enddate&gt;&amp;offset=0&amp;count=10</p> <p>Account can be Reseller/Customer</p>	<p><b>Response</b></p> <pre>{   "result":{     "respo       "r       "a       "a  ["reseller/cus   "u 01T00:00:00+00   "u 01T00:00:00+00 in  "invoiceduedat  "invoiceduedat  ] }, "succe "messa } }  <b>Error Response</b> {   "result": {     "response"     "respcod     "errorme   },   "success":   "message": }</pre>
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GET Line items for a particular invoice	GET / <b>invoice/:invoiceid</b>	<b>Customer Invoice</b> { "result":{ "respo  "accoun "admin "accoun "accoun "accoun  "invoic  "amount "coupon "vatper "vatamo "totala  "instan "resour "resour "lineit "usage "usage "create "unitpr "pricin "quant "amount
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		<div>"addit: "param1 "param2  "instan "resou "resou "lineit "usaget "usaget "create "unitpr "pricin "quant: "amount "addit: "param1 "param2  }, "succe "messa } } <b>Reseller Invoice</b>  "result":{   "respo  "accoun "admine "accoun</div>
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		<div>"account"</div> <div>"account"</div> <div>"invoice"</div> <div>"amount"</div> <div>"coupon"</div> <div>"vatper"</div> <div>"vatamo"</div> <div>"totala"</div> <div>"resour"</div> <div>"resour"</div> <div>"resour"</div> <div>"lineit"</div> <div>"unitpr"</div> <div>"pricin"</div> <div>"quant"</div> <div>"amount"</div> <div>"addit"</div> <div>"resour"</div> <div>"resour"</div> <div>"resour"</div> <div>"lineit"</div> <div>"unitpr"</div>
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		<pre>"pricing": "quantity": "amount": "additional":  }, "succeeded": "message": }  <b>Error Response</b> {   "result":     "response":       "reason":       "error":     },     "succeeded":     "message":   } }</pre>
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AgentCommisions/Statements	GET /commissions?accountId=<agentaccountid>	<div><div>Response</div><div><pre>{   "result": {     "response": {       "respcod": "968c1a55ce66",       "account": "usagest",       "usageest": "usageen",       "commiss": {         "Com": "bfd5-000d3a237",         "cur": "com",         "Amo": "Amo"       },       "Com": "bfd5-000d3a237",       "cur": "com",       "Amo": "Amo"     },     "success": "message":   } }</pre></div><div><div>Error Response</div><div><pre>{   "result": {     "response": {       "respcod": "message":     },     "success": "message":   } }</pre></div></div></div>

<p>Agent Commissions/Statements Details</p>	<p>GET /commissiondetails/:commisionid</p>	<p><b>Response</b></p> <pre>{   "result": {     "response": {       "account": {         "accou": "968c1a55ce66",         "admin": "accou",         "accou": "accou"       },       "commiss": {         "Commi": "commi",         "curre": "amoun"       },       "lineite": {         "cus": "Cus",         "ins": "d4d0881b12c9",         "res": "res",         "lin": "usa",         "cre": "usa",         "usa": "usa",         "uni": "pri",         "qua": "amo",         "act": "pro"       },       {         "cus": "Cus",         "ins": "d4d0881b12c9",         "res": "res",         "lin": "Reverted",         "usa": "usa",         "cre": "usa",         "usa": "uni",         "pri": "qua",         "amo": "amo"       }     }   } }</pre>
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		<pre>        "act         "pro       }     ]   } } }</pre> <p><b>Error Response</b></p> <pre>{   "result":     "respo     "r     "e found"   },   "succe   "messa }</pre>
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Resources End Points

Action	API	Sample
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<p>Get Resource</p>	<p><b>GET</b> <b>/resourceQuery/query/saas</b></p> <p>e.g.The above API call will give all SaaS Resources (Catalog Products)</p>	<p><b>Response</b></p> <pre>[   {     "uri": "saas/microsoft/us/configurable- 02c07b64-2cd3-4667-b014-561192fc5d1a",     "description": "Office 365 Enterprise E5 without PSTN Conferencing",     "name": "Skype for Business Online (Plan 2)",     "providerResourceId": "/3c95518e-8c37-41e3-9627- 0ca339200f53/offers/14c61739-b45a-42c0- 832c-d330972d3173",     "ShortDescription": "Office 365 Enterprise E5 without PSTN Conferencing",     "specialOffer": "",     "options": {       "size": {         "label": "1-10000000",         "min": {           "value": 1,  "SubscriptionServiceTermCharges": [           {             "SequenceNumber": 1,             "ChargePeriodUnit": {},             "ChargePeriodValue": 1,             "ChargeAmount": 3810,             "ChargeAmountUnit": "/mo",             "CurrencyCode": "JPY",             "IsEnabled": 1           }         ],         "max": 10000000,         "interval": {           "value": "1",  "SubscriptionServiceTermCharges": [           {             "SequenceNumber": 1,             "ChargePeriodUnit": {},             "ChargePeriodValue": 1,</pre>
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		<pre> "ChargeAmount": 3810, "ChargeAmountUnit": "/mo", "CurrencyCode": "JPY", "IsEnabled": 1     }     ]     }     },     "languageCode": "ja_jp",     "channelCode": "nttpc",     "currencyCode": "jpy",     "costPerUnit": "3045 JPY",     "costUnit": "/mo",     "listPrice": 3810,     "displayCost": 3810,     "isAvailable": "0",     "provider": "",     "region": "",     "id": "saas_microsoft_us_configurable- 02c07b64-2cd3-4667-b014-561192fc5d1a",     "providerId": "",     "rank": "saas_microsoft_us_configurable- 02c07b64-2cd3-4667-b014-561192fc5d1a",     "updated": "2017-06- 18T18:53:29.649Z"     } ] </pre>
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## Workloads and Instances Management

CWS includes workloads and instance APIs to create/manage workloads and service instances.

### Workload

Action	API	Sample
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Create New Workload/Order	<p><b><i>POST api/workload</i></b></p> <p>Note:</p> <p>In the workload request call, the "uri" (Request URI for a resource) should be taken from <i>GET resource call's</i> response attribute.</p> <p><b>NOTE: This API needs customer token</b></p>	<p><b>Request</b></p> <pre>{   "name": "Workload-Process",   "description": "Workload-Process",   "elements": [     {       "name": "CNW0E34E_65B4_730F_8B48_78AB1FF12A4A",       "uri": "saas/microsoft/us/configurable-bd938f12-058f-4927-bba3-ae36b1d2501c",       "parameters": {         "licenseQuantity" : 1,         "sizeInGBytes" : 1,         "domainName" : "testddon.onmicrosoft.com"       },       "metadata": {         "name" : "Office 365 Business Essentials",         "description" : "Office 365 Business Essentials"       }     }   ] }</pre> <p><b>Response</b></p> <pre>{   "workloadId": "fdcbcd79-6c08-47d0-d081da3996a5",   "source": "gateway",   "channelCode": "nttpc",   "languageCode": "ja_jp",   "currencyCode": "jpy",   "ownerId": "a68b704c-e781-4816-902b432ff70666f",   "uniqueName": "workload-process",   "name": "Workload-Process",   "description": "Workload-Process",   "bpState": "ready",   "displayState": "Empty",   "created": "2017-06-25T11:27:45.88",   "elements": [     {       "name": "CNW0E34E_65B4_730F_8B48_78AB1FF12A4A",       "uri": "saas/microsoft/us/configurable-bd938f12-058f-4927-bba3-ae36b1d2501c",       "parameters": {         "licenseQuantity": 1,         "sizeInGBytes": 1,         "commitment": "Monthly"       }     }   ] }</pre>
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		<pre>        "domainName": "testddon.onmicrosoft.com"       },       "metadata": {         "name": "Office 365 Bu Essentials",         "description": "Office Business Essentials",         "providerlogo": "",         "sku": "office-365-bus essentials-bd938f12-058f-4927-bba3- ae36b1d2501c-domain"       }     ]   } }</pre> <p><b>Error Response</b></p> <pre>//x-auth-token error {   "result": {     "response": {       "errorMessage": "Need to pass x- token",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }  //Invalid x-auth-token error {   "result": {     "response": {       "errorMessage": "Invalid x token ",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }  //invalid API key and API secret error {   "result": {     "response": {       "errorMessage": "Invalid API KEY SECRET",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre>
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		<pre>//Duplicate workload error {   "result": {     "response": {       "respcode": 400,       "error": {         "code": 400,         "message": "duplicate or simil workload name: cwsbillingworkload12",         "ticket": "clfbd9bc-6802-498a- ad4b212d8ee6"       }     },     "success": false,     "message": "Workload creation fail   } }</pre>
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Generate Workload Execution Plan	<p><b>PUT</b> <i>/workload/workloadid/plan?action=activate</i></p> <p><b>NOTE: This API needs customer token</b></p>	<p><b>Response</b></p> <pre>{   "result": {     "response": {       "respcode": 200,       "status": {         "workloadStatus": "in-progress",         "action": "plan-activate"       }     },     "success": true,     "message": "plan-activate"   } }</pre> <p><b>Error Response</b></p> <p>//API KEY or API SECRET error</p> <pre>{   "result": {     "response": {       "errorMessage": "Invalid API KEY SECRET",       "respcode": 401     },     "success": false,     "message": "Authentication failed"   } }</pre> <p>//Invalid x-auth-token error</p> <pre>{   "result": {     "response": {       "errorMessage": "Invalid x-auth-token ",       "respcode": 401     },     "success": false,     "message": "Authentication failed"   } }</pre> <p>//x-auth-token error</p> <pre>{   "result": {     "response": {       "errorMessage": "Need to pass x-auth-token",       "respcode": 401     },     "success": false,     "message": "Authentication failed"   } }</pre>
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<p>Execute Workload</p>	<p><i><b>PUT /workload/workloadid/execute</b></i></p> <p><b>NOTE: This API needs customer token</b></p>	<p><b>Response</b></p> <pre>{   "result": {     "response": {       "respcode": 200,       "status": {         "workloadStatus": "in-progress",         "action": "execute",         "transactionId": "308bc21e-4d6d-b5c5-b4440481015e"       }     },     "success": true,     "message": "execute"   } }</pre> <p><b>Error Response</b></p> <p>//API KEY or API SECRET error</p> <pre>{   "result": {     "response": {       "errorMessage": "Invalid API KEY SECRET",       "respcode": 401     },     "success": false,     "message": "Authentication failed"   } }</pre> <p>//Invalid x-auth-token error</p> <pre>{   "result": {     "response": {       "errorMessage": "Invalid x-auth-token ",       "respcode": 401     },     "success": false,     "message": "Authentication failed"   } }</pre> <p>//x-auth-token error</p> <pre>{   "result": {     "response": {       "errorMessage": "Need to pass x-auth-token",       "respcode": 401     },     "success": false,     "message": "Authentication failed"   } }</pre>
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Transaction

Action	API	Sample
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<p>Get Steps</p>	<p><b>GET</b> <b>/transaction/transactionId/steps</b></p> <p>transactionId is taken from Execute Workload response above</p> <p><b>NOTE: This API needs customer token</b></p>	<p><b>Response</b></p> <pre>{   "result": {     "response": {       "respcode": 200,       "steps": [         {           "lsn": 1,           "stepId": "0000_subscription_create_testwl254yt334",           "timestamp": "2017-07-20T04:30:26.943Z",           "status": "in-progress"         },         {           "lsn": 10,           "stepId": "0000_subscription_create_testwl254yt334",           "timestamp": "2017-07-20T04:30:39.160Z",           "status": "completed",           "elapsedTimeInSeconds": 12.201         },         {           "lsn": 11,           "stepId": "0001_saas_create_testwl254yt334",           "timestamp": "2017-07-20T04:30:39.332Z",           "status": "in-progress"         },         {           "lsn": 20,           "stepId": "0001_saas_create_testwl254yt334",           "timestamp": "2017-07-20T04:31:19.693Z",           "status": "completed",           "elapsedTimeInSeconds": 40.334         }       ]     },     "success": true,     "message": "Transaction steps retrieved successfully"   } }</pre> <p><b>Error Response</b> //API KEY or API SECRET error</p> <pre>{   "result": {</pre>
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		<pre>"response": {   "errorMessage": "Invalid API KEY or API SECRET",   "respcode": 401 }, "success": false, "message": "Authentication failed" }  //Invalid x-auth-token error {   "result": {     "response": {       "errorMessage": "Invalid x- auth-token ",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }  //x-auth-token error {   "result": {     "response": {       "errorMessage": "Need to pass x- auth-token",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre>
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<p>Get Status</p>	<p><b>GET</b> <b><i>/transaction/transactionId/status</i></b></p> <p><b>NOTE: This API needs customer token</b></p>	<p><b>Response</b></p> <pre>{   "result": {     "response": {       "respcode": 200,       "status": {         "transactionId": "308be776-c21e-4d6d-b5c5-b4440481015e",         "workloadId": "37990f92- ee3b-4fd8-8aaf-99bf33dd770f",         "ended": "2017-07- 20T04:31:20.781Z",         "status": "completed",         "elapsedTimeInSeconds": 54.026       }     },     "success": true,     "message": "Transaction status retrieved successfully"   } }</pre> <p><b>Error Response</b></p> <p>//API KEY or API SECRET error</p> <pre>{   "result": {     "response": {       "errormessage": "Invalid API KEY or API SECRET",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre> <p>//Invalid x-auth-token error</p> <pre>{   "result": {     "response": {       "errormessage": "Invalid x- auth-token ",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre> <p>//x-auth-token error</p> <pre>{   "result": {     "response": {       "errormessage": "Need to pass x- auth-token",</pre>
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		<pre>        "respcode": 401       },     },     "success": false,     "message": "Authentication failed"   } }</pre>
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# Instance

Action	API	Sample
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<p>Get instances</p>	<p><b>GET</b>  <b><u>/getinstances?workloadId=[workloadid]</u></b></p> <p>workload id can be taken from create workload response</p> <p><b>NOTE: This API needs customer token</b></p>	<p><b>Response</b></p> <pre>{   "result": {     "response": {       "respcode": 200,       "resources": [         {           "instanceId": "f585249b-a334-420e-ae10-c783eda30c93",           "originated": "2017-07-26T10:49:38.956Z",           "created": "2017-07-26T00:00:00Z",           "completed": "2017-07-26T10:50:04.269Z",           "updated": "2017-07-26T12:57:37.089Z",           "source": "workloadsv2",           "ownerId": "79beb2db-8e2f-448c-ac15-65c9f793bclb",           "resourceUri": "saas/microsoft/us/configurable-90d3615e-aa96-478e-b6ce-8eble9a96b4b",           "resourceType": "saas",           "provider": "microsoft",           "region": "us",           "providerResourceId": "/3c95518e-8c37-41e3-9627-0ca339200f53/offers/90d3615e-aa96-478e-b6ce-8eble9a96b4b",           "attributes": {             "providerInstanceId": "5b4dd505-eb46-4b8a-9e1d-a905b0b08d86+eb33ce1b-b1ed-43ee-90f3-b96520db66b1",             "instanceStatus": "active",             "userName": "admin@domaintesthack.onmicrosoft.com",             "password": "dwsy0BbD",             "saasUrl": {               "OneDrive for Business (Plan 1)": "https://portal.office.com/default.aspx"             },             "licenseQuantity": 3,             "transientStatus": false,             "expireDate": "2018-08-01T00:00:00Z",             "previousLicenseQuantity": "2"           },           "attributeTimestamps": {             "instanceStatus": "2017-07-26T12:57:37.030Z",             "userName": "2017-07-26T10:49:49.832Z",</pre>
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		<pre>         "password": "2017-07- 26T10:49:49.835Z",         "saasUrl": "2017-07- 26T12:57:37.032Z",         "licenseQuantity": "2017-07- 26T12:57:37.034Z",         "expireDate": "2017-07- 26T12:57:37.035Z"     },     "metadata": {         "name": "TestWL254yt334",         "description": "Office 365 Business Essentials (Plan 1)",         "providerlogo": "",         "sku": "bd938f12-058f-4927- bba3-ae36b1d2501c",         "account": false,         "userId": "cccccccc-cccc- cccc-0000-cccccccccccc",         "workloadId": "5fd85333-1466- 4014-8074-f959df81fb8e",         "transactionId": "17870ce9- edd5-4e61-be87-flb88c6efc6d"     },     "parameters": {         "licenseQuantity": 2,         "sizeInGBytes": 1,         "commitment": "Monthly commitment",         "domainName": "pk1234.onmicrosoft.com",         "additionalparameters": {  "productnameforttpccatalog": "OneDrive for Business (Plan 1)",  "productcategoryforttpccatalog": "saas",  "productnameforresellercatalog": "OneDrive for Business (Plan 1)",  "productcategoryforresellercatalog": "saas",          "autorenewalperiod": "1",         "reservationflag": "Yes",         "reactivationflag": "No",         "sellingpriceinitial": "0",         "freeperiod": "1",         "freeperiodflag": "Yes",         "provisioningmethod":  "api",          "minimumusageperiod": "1",  "endpointurlforprovisioning": "https://portal.office.com/default.aspx",         "sellingpricemonthly": "0", </pre>
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		<pre> "wholesalepriceinitial": "0", "wholesalepricemonthly": "0", "referralfeeinitial": "0", "referralfeemonthly": "0", "purchasepriceinitial": "0", "purchasepricemonthly": "32", "nttpcmaximumquantity": "1", "addonproducts": null, "noteforquoting": "1", "noteforbilling": "1", "xionservicenumber": null, "xionservicename": null, "xiondetailsforinitial": null, "xiondetailsformonthly": null, "xiondetailsforother": null, "department": null, "emailaddress": null, "personincharge": null, "phoneno": null,  "productnameforsystemlinkage": null }, "accountid": "79beb2db-8e2f- 448c-ac15-65c9f793bc1b", "accountName": "hackcus", "email": "hackcus@yopmail.com", "firstname": "pk", "lastname": "pk", "address1": "261 Shinmonzen dori", "city": "Higashiyama-ku", "region": " 鹿児島県 (Kagoshima)", "country": "JP", "postalcode": "605-0064", "phonenumber": "1234567890", "domainNameId": "pk1234.onmicrosoft.com", "saas_providerResourceId": "/3c95518e-8c37-41e3-9627- 0ca339200f53/offers/90d3615e-aa96-478e- b6ce-8eb1e9a96b4b", "zone": "us", "originalAction": "saas.create", "ownerId": "79beb2db-8e2f- 448c-ac15-65c9f793bc1b", </pre>
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		<pre>        "resourceUri": "saas/microsoft/us/configurable-90d3615e- aa96-478e-b6ce-8e1e9a96b4b",         "productParameters": {             "saasUrl": {                 "OneDrive for Business (Plan 1)": "https://portal.office.com/default.aspx"             }         },         "workloadId": "5fd85333-1466- 4014-8074-f959df81fb8e",         "transactionId": "17870ce9- edd5-4e61-be87-f1b88c6efc6d",         "userId": "cccccccc-cccc- cccc-0000-cccccccccccc"     },     "entitlement": "/dc5d3daa-44d2- 4154-b439-b46-4b8a-9e1d-a905b0b08d86" }  ], }, "success": true, "message": "Instances retrieved successfully" } }</pre> <p><b>Error Response</b></p> <pre>//API KEY or API SECRET error {     "result": {         "response": {             "errorMessage": "Invalid API KEY or API SECRET",             "respcode": 401         }     },     "success": false,     "message": "Authentication failed" }  //Invalid x-auth-token error {     "result": {         "response": {             "errorMessage": "Invalid x- auth-token ",             "respcode": 401         }     },     "success": false,     "message": "Authentication failed" }</pre>
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		<pre>//x-auth-token error {   "result": {     "response": {       "errorMessage": "Need to pass x- auth-token",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre>
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<p>PUT</p> <p>update instance licenses</p>	<p><b>PUT</b></p> <p><i>For update licence →</i>  <b><i>/instance/:instanceid?action=quantity</i></b></p> <p><i>For suspending saas product →</i>  <b><i>/instance:instanceid?action=suspend</i></b></p> <p><i>For reactivating saas product →</i>  <b><i>/instance/:instanceid?action=reactivate</i></b></p> <p><i>instance id is taken from response of get instances call</i></p> <p><b>NOTE: This API needs customer token</b></p>	<p><b>Request</b>  //This request is for 'action=quantity' only  <pre>{     "licenseQuantity" : 4 }</pre></p> <p><b>Response</b>  <pre>{   "result": {     "response": {       "respcode": 200,       "request": {         "requestId": "c32eb5f5-342c-44e5-b819-37bdb4e3e4ad",         "instanceId": "f585249b-a334-420e-ae10-c783eda30c93",         "created": "2017-07-26T13:12:56.743Z",         "updated": "2017-07-26T13:12:56.743Z",         "ownerId": "79beb2db-8e2f-448c-ac15-65c9f793bc1b",         "requestStatus": "in-progress",         "resourceUri": "saas/microsoft/us/configurable-90d3615e-aa96-478e-b6ce-8eb1e9a96b4b",         "resourceType": "saas",         "provider": "microsoft",         "region": "us",         "connector": "microsoft.crest",         "parameters": {           "licenseQuantity": "2",           "providerInstanceId": "5b4dd505-eb46-4b8a-9e1d-a905b0b08d86+eb33ce1b-b1ed-43ee-90f3-b96520db66b1",           "action": "saas.update.quantity",           "instanceId": "f585249b-a334-420e-ae10-c783eda30c93",           "saas_providerResourceId": "/3c95518e-8c37-41e3-9627-0ca339200f53/offers/90d3615e-aa96-478e-b6ce-8eb1e9a96b4b",           "zone": "us"         },         "metadata": {           "name": "TestWL254yt334",           "description": "Office 365 Business Essentials (Plan 1)",           "providerlogo": "",           "sku": "bd938f12-058f-4927-bba3-ae36b1d2501c",           "account": false, </pre></p>
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		<pre>        "userId": "cccccccc-cccc-cccc-0000-cccccccccccc",         "workloadId": "5fd85333-1466-4014-8074-f959df81fb8e",         "transactionId": "17870ce9-edd5-4e61-be87-f1b88c6efc6d"     }     },     "success": true,     "message": "Instances Updated successfully" } }</pre> <p><b>Error Response</b></p> <p>//API KEY or API SECRET error</p> <pre>{   "result": {     "response": {       "errorMessage": "Invalid API KEY or API SECRET",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre> <p>//Invalid x-auth-token error</p> <pre>{   "result": {     "response": {       "errorMessage": "Invalid x-auth-token ",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre> <p>//x-auth-token error</p> <pre>{   "result": {     "response": {       "errorMessage": "Need to pass x-auth-token",       "respcode": 401     }   },   "success": false,   "message": "Authentication failed" }</pre>
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<p>Get Request status</p>	<p>GET /request/:requestid</p> <p>we can get requestid from the response of update instance</p>	<p><b>Response</b></p> <pre>{   "result": {     "response": {       "respcode": 200,       "request": [         {           "requestId": "2ca9181d-6480-4c89-afdc-8c67659a3a21",           "instanceId": "cfa352bb-e38d-4103-9b49-96e0f35e6090",           "created": "2017-07- 26T19:39:47.096Z",           "updated": "2017-07- 26T19:39:55.592Z",           "ownerId": "14fb8644- 5724-486a-9c25-88593e35e893",           "requestStatus": "completed",           "resourceUri": "saas/microsoft/us/configurable-90d3615e- aa96-478e-b6ce-8eble9a96b4b",           "resourceType": "saas",           "provider": "microsoft",           "region": "us",           "connector": "microsoft.crest",           "parameters": {             "providerInstanceId": "8f4d9d32-739b- 473a-b924-a0c0082147c9+46888877-a14e- 49be-9faf-ccc6ce9b632a",             "action": "saas.update.reactivate",             "instanceId": "cfa352bb-e38d-4103-9b49-96e0f35e6090",             "saas_providerResourceId": "/3c95518e- 8c37-41e3-9627- 0ca339200f53/offers/90d3615e-aa96-478e- b6ce-8eble9a96b4b",             "zone": "us"           },           "metadata": {             "name": "CWS1",             "description": "OneDrive for Business (Plan 1)",             "account": false,             "userId": "ccccccccc-cccc-cccc-0000-ccccccccccccc",             "workloadId": "3ff02f63-15d9-4e03-b01d-93b0a9c5e2b1",             "transactionId": "f9944227-5a46-4a43-bdb5-3e72780226ef"           }         }       ]     }   } }</pre>
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		<pre>    },     "results": {       "providerInstanceId": "8f4d9d32-739b-473a-b924-a0c0082147c9+46888877-a14e-49be-9faf-ccc6ce9b632a",       "instanceStatus":         "active",       "action":         "saas.update.reactivate",       "instanceId":         "cfa352bb-e38d-4103-9b49-96e0f35e6090",        "saas_providerResourceId": "/3c95518e-8c37-41e3-9627-0ca339200f53/offers/90d3615e-aa96-478e-b6ce-8eble9a96b4b",       "zone": "us",       "originalAction":         "saas.update.reactivate",       "ownerId":         "14fb8644-5724-486a-9c25-88593e35e893",       "resourceUri":         "saas/microsoft/us/configurable-90d3615e-aa96-478e-b6ce-8eble9a96b4b",        "productParameters": {         "saasUrl": {           "OneDrive for Business (Plan 1)":             "https://portal.office.com/default.aspx"           }         },         "workloadId":           "3ff02f63-15d9-4e03-b01d-93b0a9c5e2b1",         "transactionId":           "f9944227-5a46-4a43-bdb5-3e72780226ef",         "userId":           "cccccccc-cccc-cccc-0000-cccccccccccc"       }     }   ],   },   "success": true,   "message": "Request retrieved successfully" } }  <b>Error Response</b> //API KEY or API SECRET error {   "result": {     "response": {       "errormessage": "Invalid API KEY or API SECRET",       "respcode": 401     }   } }</pre>
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		<pre>    }   },   "success": false,   "message": "Authentication failed" }  //request not found error {   "result": {     "response": {       "respcode": 400,       "errormessage": "request not found: requestId: 79beb2db-8e2f-448c-ac15- 65c9f793bc1b"     },     "success": false,     "message": "Request retrieving failed"   } }</pre>
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