Oracle APIs integration with QuoteAI Solution.
“ISV Quote AI Phase2”
Version 1.0

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Revision History

Date	Version	Description	Reference	Author	Reviewed by	Approved by
2nd Sept. 2025	Version 1.0	Oracle APIs integration with QuoteAI Solution.	NA	Raghav Mittal	Ankit Jain Atanu Samanta Chandrika Gururaja	Shijoy Varghese

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Overview

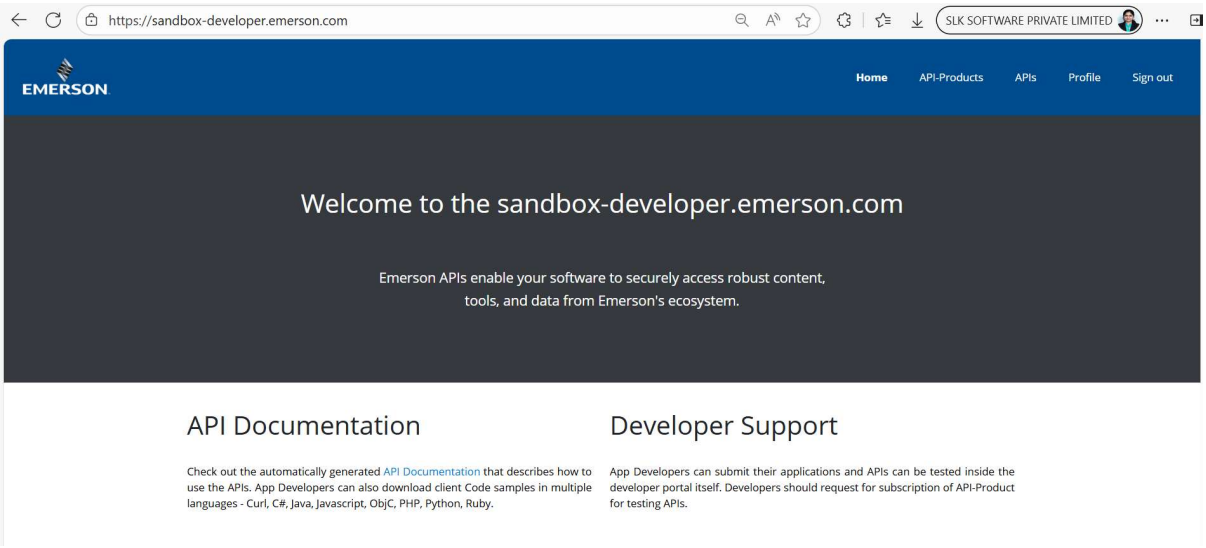
The QuoteAI solution automates quote generation for RFQs by leveraging Oracle APIs to validate item details, fetch customer data, and create quotes. Integration ensures seamless connectivity between Emerson's ecosystem and QuoteAI, enabling accurate pricing and efficient quote processing.

Oracle APIs are deployed in two environments:

- **Sandbox APIs**: Stable, subscription-based APIs accessible outside Emerson's network.
- **ORDS (Oracle REST Data Services)**: Lower-level APIs used internally for development before moving to Sandbox.

Sandbox APIs: Emerson APIs enable QuoteAI solution to securely access robust content, tools, and data from Emerson's ecosystem. Sandbox APIs have their API products and multiple APIs will be present inside each product.

sandbox-developer.emerson.com



Profile section will display all the API Products that a user can access.

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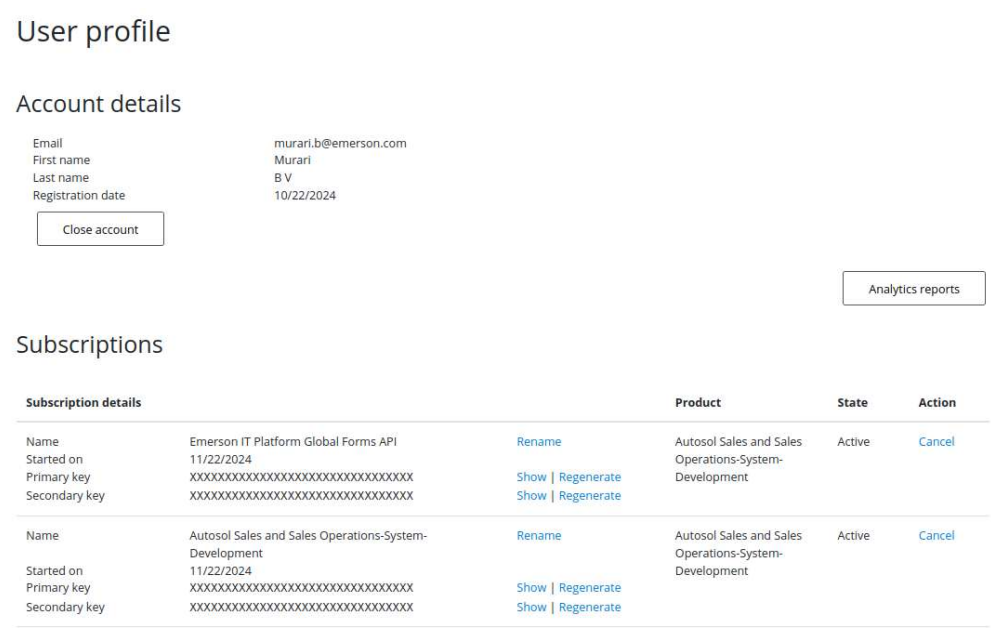
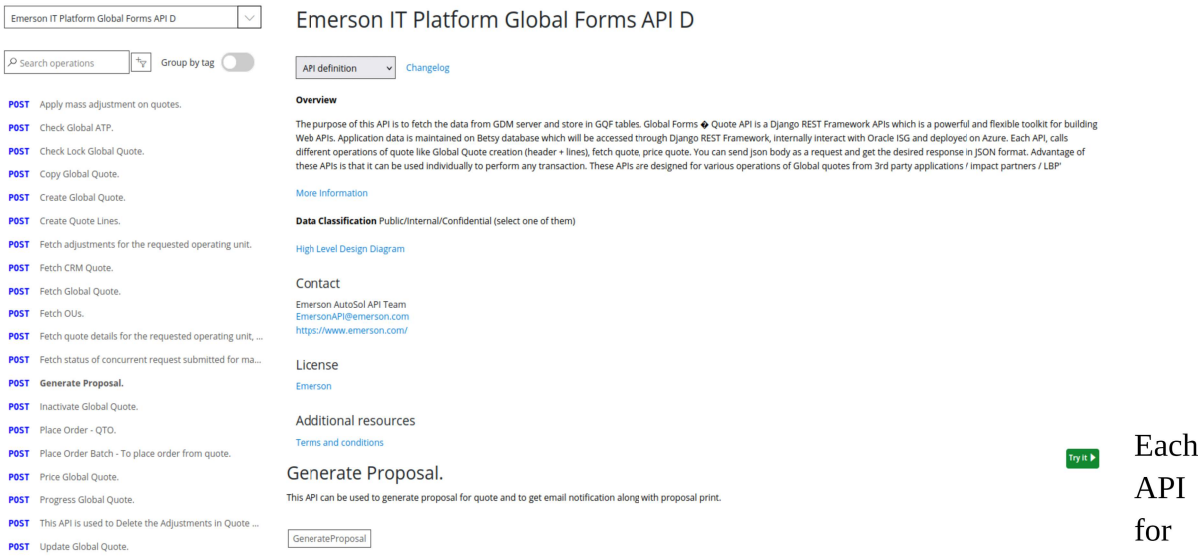


Name of the subscription is given by the user for the API product. Under this product one of the APIs is **Emerson IT Platform Global Forms API** which has multiple APIs in itself as shown below.



Each API for example: **Emerson IT Platform Global Forms API** has usually three environments (Stage, Test and Development) represented as (“”, “T”, “D”).

All the Sandbox APIs can be used outside Emerson network as well.

ORDS APIs: Lower-level APIs in terms of deployment as compared to Sandbox.

- When APIs are developed in Emerson, they are done in ORDS first and then later put in Sandbox for the user to use based on subscription.
- Anyone can use the APIs if they have the API endpoints and credentials.

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- User needs to be in Emerson network to use ORDS APIs.

Oracle APIs used in QuoteAI solution

ItemSearchAPI

Purpose: Mapping Legacy part numbers and item description to ISV/VA Part number

Authentication: API Key

Endpoint(Production): POST Prod/search-item/v1/ITEM_DESC

Endpoint(Stage): POST /search-item/v1/ITEM_DESC

Endpoint(Development): POST /search-item-dev/v1/ITEM_DESC

HTTP Method: POST

Headers:

Name	Type	Description
Ocp-Apim-Subscription-Key	string	The subscription key provided by the API owner. It must be included in every request for authentication.
Content Type	string	application/json

Payload:

```
{
  "Item": {
    "MessageHeader": {
      "Sender": {
        "ID": "QUOTEAI"
      },
      "Target": {
        "ID": "OGSI"
      },
      "BusinessGroup": "SSOP",
      "DataArea": {
        "Identification": {
          "ItemNumber": <<Potential ISV/VA Part Number as a String >>
        },
        "ItemDescription": {
          "Description": <<Potential Item Description as a String>>,
          "ItemType": " ",
          "ItemCategory": "ISV,VA"
        },
        "Manufacturer": {
          "Manufacturer": "OLD",
          "ManufacturerPartNumber": <<Potential Legacy Part Number as a String>>
        }
      }
    }
  }}
```

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Example Request body schema:

Legacy Part Number	Item Description
{ "Item": { "MessageHeader": { "Sender": { "ID": "QUOTEAI" }, "Target": { "ID": "OGSI" }, "BusinessGroup": "SSOP", "DataArea": { "Identification": { "ItemNumber": "" }, "ItemDescription": { "Description": "", "ItemType": "", "ItemCategory": "ISV,VA" }, "Manufacturer": { "Manufacturer": "OLD", "ManufacturerPartNumber": "%3SDC28001696%" } } } } }	{ "Item": { "MessageHeader": { "Sender": { "ID": "QUOTEAI" }, "Target": { "ID": "OGSI" }, "BusinessGroup": "SSOP", "DataArea": { "Identification": { "ItemNumber": "" }, "ItemDescription": { "Description": "%SERV K.MINOR G3-00 DRIVE MOD%", "ItemType": "", "ItemCategory": "ISV,VA" }, "Manufacturer": { "Manufacturer": "OLD", "ManufacturerPartNumber": "" } } } } }

Response Schema :

```
{ "OutputParameters":{
"@xmlns": "string",
"@xmlns:xsi": "string",
"O_ERROR_FLAG": "string",
"O_ERROR_MSG": <<Error message as string>>,
"ITEM_INFO_REC_ITEM":[{
        "INVENTORY_ITEM_ID": <<ID of the Mapped Part Number as a Number ,
        QuoteAI is not using this ID>>,
        "ITEM_NUMBER": << Mapped Part Number as String >>,
        "ITEM_DESCRIPTION": <<A short Description of the Item as a String>>,
        "LONG_DESCRIPTION": "string",
        "ICC": "string",
```

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```
        "PROD_HIERARCHY": "string",
        "IMO_STATUS": "string",
        "ITEM_TYPE": "string",
        "CROSS_REFERENCE_TYPE": "string",
        "CROSS_REFERENCE": "string",
        "CROSSREF_DESCRIPTION": "string",
        "PROD_HIERARCHY_SEGMENT1": "string"}]}}
```


Example for Response schema

Legacy part number	Item Description

{"OutputParameters":
{ "@xmlns":
"http://localhost:8080/ords/betsy/v1.0/EMR_ITEM_DESC/ITEM_DESC",
"@xmlns:xsi":
"http://www.w3.org/2001/XMLSchema-instance", "O_ERROR_FLAG": "N",
"O_ERROR_MSG": "Number of records matched Search criteria :1",
"ITEM_INFO_REC_ITEM": [{
"INVENTORY_ITEM_ID": "52646690",
"ITEM_NUMBER": "ISV-1524633",
"ITEM_DESCRIPTION": "GASKET DISC CRYOGENIC 30K DN700 NPS 28 REINFORCED GRAPHITE P N - 3SDC28001696",
"LONG_DESCRIPTION": "GASKET\nTYPE - DISC CRYOGENIC\nFIGURE STANDARD - 30K\nSIZE - DN700 NPS 28\nMATERIAL - REINFORCED GRAPHITE\nP N - 3SDC28001696",
"ICC": "GASKET ISV",
"PROD_HIERARCHY": "ISV.TO30K.SPSPC.TOV-PTS.TOV-PTS-TOV.0.YES",
"IMO_STATUS": "Active",
"ITEM_TYPE": "IMOISV",
"CROSS_REFERENCE_TYPE": "OLD",
"CROSS_REFERENCE":
	{"OutputParameters": {
	"@xmlns":
	"http://localhost:8080/ords/betsy/v1.0/EMR_ITEM_DESC/ITEM_DESC", "@xmlns:xsi":
	"http://www.w3.org/2001/XMLSchema-instance", "O_ERROR_FLAG": "N",
	"O_ERROR_MSG": "Number of records matched Search criteria :1",
	"ITEM_INFO_REC_ITEM": [{
	"INVENTORY_ITEM_ID": "2470912",
	"ITEM_NUMBER": "VA127633",
	"ITEM_DESCRIPTION": "SERV K.MAJOR G2-00 DRIVE MOD",
	"LONG_DESCRIPTION": "",
	"ICC": "EMR_NEW_ITEM_VA",
	"PROD_HIERARCHY": "VA.BET.SERVK.XX.XX..",
	"PROD_HIERARCHY_SEGMENT1": "VA",
	"IMO_STATUS": "Active",
	"ITEM_TYPE": "P",
	"CROSS_REFERENCE_TYPE": "",
	"CROSS_REFERENCE": "",
	"CROSSREF_DESCRIPTION": ""}]}}

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"3SDC28001696_BND", "CROSSREF_DESCRIPTION": "BND_GASKET DISC SPIRAL WOUND VAN-30K DN0700 NPS28 GRAPHITE SEQUENCE COMPONENT NO 001 TRIM A", "PROD_HIERARCHY_SEGMENT1": "ISV"}]}}	

ModelListPriceAPI

Purpose: Part Number / ModelString /Bundle Model of each line in RFQ is checked if it is Valid or Invalid through this API. Only Valid items will get added to the Quote.

Authentication: API Key

Endpoint(Production): POST Prod/ModelConfig/v1/modellistprice

Endpoint(Stage): POST /ModelConfig/v1/modellistprice

Endpoint(Development): POST /ModelConfig-dev/v1/modellistprice

HTTP Method: POST

Headers:

Name	Type	Description
Ocp-Apim-Subscription-Key	string	The subscription key provided by the API owner. It must be included in every request for authentication.
Content Type	string	application/json

Payload:

```
{
  "partNumber": <<ISV/VA part number as string>>,
  "modelName": "",
  "modelString": <<Model string as string>>,
  "childModel": [
    {
      "childModelName": "",
      "childModelString": ""
    }
  ],
  "division": "ISV",
  "quantity": "1",
```

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```
  "currencyCode": "USD",
  "pricingRegion": "US",
  "pricingDate": "",
  "orgId": <<Organisation ID as string>>,
  "customerAccountNumber": <<Customer EBS ID as string>>
}
```

Example payload schema:

ISV/VA Part Number	Model String
{ "partNumber": "ISV-1342632", "modelName": "", "modelString": "", "childModel": [{ "childModelName": "", "childModelString": "" }], "division": "ISV", "quantity": "1", "currencyCode": "USD", "pricingRegion": "US", "pricingDate": "", "orgId": "9907", "customerAccountNumber": "151624641" }	{ "partNumber": "", "modelName": "", "modelString": "EF1S-0020R3A100A1-CAS00S0T0P0IL", "childModel": [{ "childModelName": "", "childModelString": "" }], "division": "ISV", "quantity": "1", "currencyCode": "USD", "pricingRegion": "US", "pricingRegion": "", "orgId": "9907", "customerAccountNumber": "151624641"

Response Schema

```
{
  "partNumber": <<Input ISV Part Number as string>>,
  "productID": <<Unique ID for the part>>,
  "productStatus": <<Status of the product>>,
  "productDescription": "string",
  "modelName": "string",
  "modelString": "string",
  "configHeaderId": "string",
  "configRevNum": "string",
  "currencyCode": "string",
  "quantity": "string",
  "listPrice": <<Price of the item>>,
```

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```
  "sellingPrice": <<Price after discount>>,
  "childModel": [],
  "division": "ISV",
  "pricingRegion": "US",
  "pricingDate": <<Time and Date>>,
  "configValid": "string",
  "result": "string",
  "errorMsg": <<Error message as string>>,
  "errorFlag": "string",
  "errorCode": <<Error code for the specific partnumber>>
}
```


Example for Response schema

ISV/VA Part Number	Model String

{
"partNumber": "ISV-1342632",
"productID": "35201122",
"productStatus": "ACTIVE",
"productDescription": "RDC MG others-;component pneum., Repair/spare;SERV K.MINOR G3-00 DRIVE MOD; VA126432",
"modelName": "",
"modelString": "",
"configHeaderId": "",
"configRevNum": "",
"currencyCode": "USD",
"quantity": "1",
"listPrice": "685.81",
"sellingPrice": "514.36",
"childModel": [],
"division": "ISV",
"pricingRegion": "US",
"pricingDate": "2025-10-16 16:17:31",
"configValid": "",
"result": "TRUE",
"errorMsg": "No Error Message",
"errorFlag": "N",
"errorCode": "NO_ERROR"
}
	{
	"partNumber": "",
	"productID": "",
	"productStatus": "",
	"productDescription": "",
	"modelName": "",
	"modelString": "",
	"configHeaderId": "",
	"configRevNum": "",
	"currencyCode": "",
	"quantity": "",
	"listPrice": "",
	"sellingPrice": "",
	"childModel": [],
	"division": "",
	"pricingRegion": "US",
	"pricingDate": "2025-10-16 16:28:58",
	"configValid": "",
	"result": "FALSE",
	"errorMsg": "Model Configuration status is false",
	"errorFlag": "E",
	"errorCode": "INVALID_CONFIGURATION"
	}

Validation API Error Handling

Error Code	Action Taken

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VALID	Add to quote
MODEL_STRING_MISMATCH	Use suggested model string if valid
INVALID_CONFIGURATION	Ignore; do not add to note or quote
MISSING_MODEL_SETUP	Ignore; do not add to note or quote
INVALID_ITEM	Ignore; do not add to note or quote

CustomerPartyAPI

Purpose: API to fetch customer details

Authentication: API Key

Endpoint(Production): GET --Prod//customerparty/v1/customerparty

Endpoint(Stage): GET /customerparty/v1/customerparty

Endpoint(Development): GET /customerparty-dev/v1/customerparty

HTTP Method: GET

Headers:

Name	Type	Description
Ocp-Apim-Subscription-Key	string	The subscription key provided by the API owner. It must be included in every request for authentication.
senderId	string	value: "AUTOBOT"
targetId	string	value: “OGSI”
businessGroup	string	value: "GRP"

Payload :

```
{
  "DestinationSystem": "string",
  "CustomerNumber": "string"
}
```

Example Payload schema:

```
{
```

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```
  "DestinationSystem": " EPM_AE_OU_DXBSO ",
  "CustomerNumber": "151624641" }
```


Response Schema:


```
{
 "CustomerParty": {
  "DataArea": {
   "Identification": [
    {
     "ID": "string",
     "RegistrationID": "string",
     "CustomerName": "string",
     "AlternateCustomerName": "string",
     "AccountDescription": "string",
     "PartyNumber": "string",
     "PartySiteNumber": "string",
     "PartySiteId": "string",
     "MailtoInvoiceCustPartyName": "string",
     "CustomerID": "string",
     "CustomerNumber": "string",
     "Location": [
      {
       "Consol": "string",
       "MailtoInvoice": "string",
       "MailInvoicetoID": "string",
       "Address": [
        {
         "CityName": "string",
         "StateName": "string",
         "Province": "string",
         "CountyName": "string",
         "PostalCode": "string",
         "CountryName": "string",
         "LocationCode": "string",
         "FirstAddress": "string",
         "SecondAddress": "string",
         "ThirdAddress": "string",
         "FourthAddress": "string",
         "FifthAddress": "string",
         "CustomerLocation": "string",
         "DeliverToLocation": "string",
         "SiteStatus": "string",
         "CustomerAccountSiteId": "string"
        }
       ]
      }
     ],
```

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```
"Contact": [
  {
    "EmailAddress": "string",
    "SalesPersonDetails": [
      {
        "SalesRepName": "string",
        "SalesRepResourceName": "string"
      }
    ]
  }
],
"BillingProfile": [
  {
    "Location": "string",
    "SiteName": "string"
  }
],
"ShippingProfile": [
  {
    "Location": "string",
    "FreightForwarderLocation": "string",
    "SiteName": "string",
    "FreightForwarderSite": "string",
    "DeliveryToSite": "string"
  }
],
"TaxProfile": [
  {
    "TaxID": "string",
    "TaxReference": "string"
  }
],
"Organization": [
  {
    "SICCode": "string",
    "OrganizationID": "string",
    "OperatingUnit": "string",
    "ParentInfo": [
      {
        "Location": "string"
      }
    ]
  }
],
"AccountSite": [
  {
    "AccoutSiteStatus": "string",
    "CustomerAccountStatus": "string",
```