

How To Use Lattice Score and Enrich REST API

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Context

This document provides prerequisites and API usage examples for building custom applications using Lattice real-time score and enrich REST APIs.

Note that, Lattice APIs are not guaranteed to be available 24/7. APIs are expected to be down once every two weeks for one hr for scheduled maintenance.

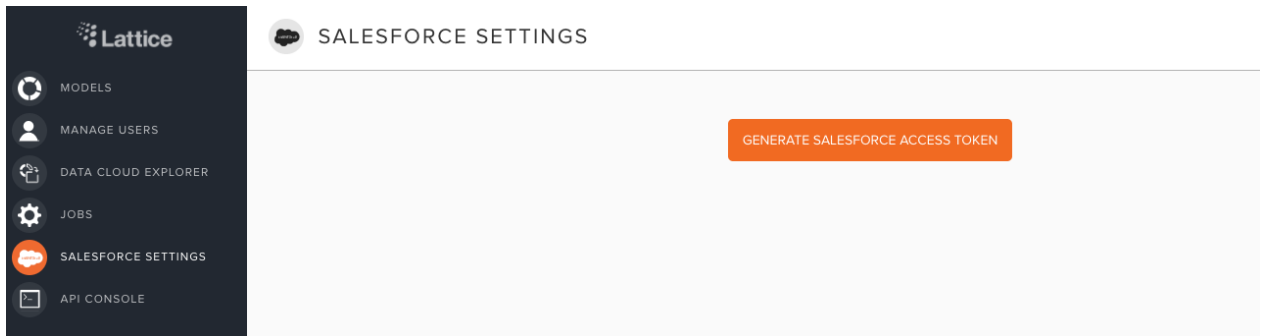
API Rate limiting / Thresholds

Standard quota limit for Score / Enrichment API calls are 1000/hour and 25000/day.

We highly recommend reviewing your application logic for calling Lattice APIs and ensuring Lattice team is aware of expected volume of daily API calls.

Prerequisite

- Customer has access to <https://app.lattice-engines.com/>
- Tenant has setup the needed Models
- Tenant has configured Data Cloud attributes for Enrichments usecase
- And Client can generate OTP using "Generate Salesforce Access Token"



References

API docs are available at

Module	Documentation
OAuth	https://oauth.lattice-engines.com/swagger-ui.html

API Usage and Samples

Generate Salesforce Access Token.

This is a One Time Password (OTP), that will be expired after 24 hours of generation. (If you have already generated it, you can skip it.)

Authentication Process

Authenticate and Get Tokens

As part of authentication using OTP, it will generate Access token and Refresh token for all future API communications. These tokens will be valid for 6 months.

Note: "app_id" is a client generated string, which uniquely identifies the customer application. So that, when the Lattice API is used at different application from the same customer, it will not impact the access_token of prior applications. Ex: app_id=web.company.salesapp1

Authenticate REST Call

```
curl --user "lp:" https://oauth.lattice-engines.com/oauth/token -d grant_type=password -d username=<tenantID.tenantID.Production> -d app_id=<hosting>.<tenantID>.<application> -d password=<OTP>
```

Response:

Authentication Response

```
{"access_token": "a8a7a1c3-de25-4530-9642-5ceb4f71bbcd", "token_type": "bearer", "refresh_token": "7a2aa402-2b1a-4ee0-a213-cab9af57bde3", "expires_in": 43199, "scope": "read write"}
```

Use access_token for all future communications with Lattice API.

Refresh Access Token

When access token gets expired, API will throw 401 unauthorized, with error message of "Access token expired". In that case, client can use the below API to get new access token.

Refresh Token Request

```
curl --user "lp:" https://oauth.lattice-engines.com/oauth/token
-d grant_type=refresh_token -d
username=<tenantID.tenantID.Production> -d
app_id=<hosting>.<tenantID>.<application> -d
refresh_token=<7a2aa402-2b1a-4ee0-a213-cab9af57bde3>
```

Response:

Refresh Token Response

```
{ "access_token" : "f132b3c4-57f6-4708-b48b-17ee82281a4a", "token_t
ype" : "bearer", "refresh_token" : "7a2aa402-2b1a-4ee0-a213-cab9af57
bde3", "expires_in" : 43199, "scope" : "read write" }
```

Get Model Details

Get Model Count

If you have many models, you can query for count and use the pagination to get in batches.

Model Count

```
curl -X GET -H "Authorization: Bearer f132b3c4-57f6-4708-b48b-17ee82281a4a"
"https://apigw.lattice-engines.com/score/v01/modeldetails/count?considerAl
lStatus=true"
```

Get Model Details

Get model details, which will provide Field Mapping, and its input validation expression for required mapping fields.

We Recommend to provide data for all Primary Fields, when sending a Scoring / Enrichment request

Request

Model Details Request

```
curl -X GET -H "Authorization: Bearer f132b3c4-57f6-4708-b48b-17ee82281a4a"
"https://apigw.lattice-engines.com/score/v01/modeldetails?considerAllStatu
s=true&offset=0&maximum=4"
```

Response

Model Details Response

```
[
  {
    "model": {
      "modelId": "ms__7767be0b-1a6e-406e-aef9-85d633571481",
      "name": "DBFinal",
      "type": "CONTACT"
    },
    "status": "Active",
    "fields": {
      "modelId": "ms__7767be0b-1a6e-406e-aef9-85d633571481",
      "fields": [
        {
          "fieldName": "Email",
          "fieldType": "STRING",
          "displayName": "Email",
          "isRequiredForScoring": true,
          "isPrimary": true
        },
        {
          "fieldName": "Id",
          "fieldType": "STRING",
          "displayName": "Id",
          "isRequiredForScoring": true,
          "isPrimary": true
        }
      ]
    }
  },
  "lastModifiedTimestamp": "2016-09-01T20:53:37+0000"
},
{
  "model": {
    "modelId": "ms__a7507c99-5d3e-47bc-9527-fca12059bab3",
    "name": "EnterpriseMajors",
    "type": "ACCOUNT"
  },
  "status": "Active",
  "fields": {
    "modelId": "ms__a7507c99-5d3e-47bc-9527-fca12059bab3",
    "fields": [
      {
        "fieldName": "Website",
        "fieldType": "STRING",
        "displayName": "Website",
        "isRequiredForScoring": true,
        "isPrimary": true
      },
      {
        "fieldName": "Country",
        "fieldType": "STRING",
        "displayName": "Country",
        "isRequiredForScoring": false,

```

```
    "isPrimary": true
  },
  {
    "fieldName": "Id",
    "fieldType": "STRING",
    "displayName": "Id",
    "isRequiredForScoring": true,
    "isPrimary": true
  }
]
},
```

```
    "lastModifiedTimestamp": "2017-01-26T22:12:28+0000"
  }
]
```

Models field mapping

Try to map as many inputs as possible for Models input fields, before making a scoring request.

Enrichment fields Metadata

Customer can retrieve metadata for all enrichment fields that were configured on Lattice data cloud.

Request

Enrichment metadata

```
curl -X GET -H "Authorization: bearer f132b3c4-57f6-4708-b48b-17ee82281a4a"
"https://apigw.lattice-engines.com/score/v01/enrichment?onlySelectedAttributes=true"
```

Response

Enrichment metadata

```
[
  {
    "DisplayName": "State",
    "FieldName": "LDC_State",
    "FieldNameInTarget": "LDC_State",
    "FieldType": "NVARCHAR(MAX)",
    "FieldJavaType": "String",
    "CustomerColumnName": null,
    "DataSource": null,
    "Description": "The name of the state/province where the business is
physically located, generally, in the local language. Available globally.
Blank-filled when not available..",
    "IsSelected": true,
    "IsPremium": false,
    "Category": "Firmographics",
    "Subcategory": "Other",
    "IsInternal": false,
    "FundamentalType": "ALPHA",
    "AttributeFlagsMap": null,
    "ImportanceOrdering": 40
  },
  {
    "DisplayName": "Employee Range",
    "FieldName": "LE_EMPLOYEE_RANGE",
    "FieldNameInTarget": "LE_EMPLOYEE_RANGE",
    "FieldType": "NVARCHAR(MAX)",
    "FieldJavaType": "String",
```

```

    "CustomerColumnName": null,
    "DataSource": null,
    "Description": "Employee Range of domestic ultimate business, which is
the highest level parent for the corporate within the country. Available
Globally.",
    "IsSelected": true,
    "IsPremium": false,
    "Category": "Firmographics",
    "Subcategory": "Other",
    "IsInternal": false,
    "FundamentalType": "ENUM",
    "AttributeFlagsMap": null,
    "ImportanceOrdering": 80
  },
  {
    "DisplayName": "Revenue Range",
    "FieldName": "LE_REVENUE_RANGE",
    "FieldNameInTarget": "LE_REVENUE_RANGE",
    "FieldType": "NVARCHAR(MAX)",
    "FieldJavaType": "String",
    "CustomerColumnName": null,
    "DataSource": null,
    "Description": "Revenue Range of domestic ultimate business, which is
the highest level parent for the corporate within the country. Available
Globally.",
    "IsSelected": true,
    "IsPremium": false,
    "Category": "Firmographics",
    "Subcategory": "Other",
    "IsInternal": false,
    "FundamentalType": "ENUM",
    "AttributeFlagsMap": null,
    "ImportanceOrdering": 90
  },
  {
    "DisplayName": "Has Citrix GoToMeeting",
    "FieldName": "TechIndicator_CitrixGoToMeeting",
    "FieldNameInTarget": "TechIndicator_CitrixGoToMeeting",
    "FieldType": "NVARCHAR(MAX)",
    "FieldJavaType": "String",
    "CustomerColumnName": null,
    "DataSource": "HGData_Pivoted_Source",
    "Description": "A domain using technology of Citrix GoToMeeting behind
firewall",
    "IsSelected": true,
    "IsPremium": true,
    "Category": "Technology Profile",
    "Subcategory": "Collaboration",
    "IsInternal": false,
    "FundamentalType": "BOOLEAN",
    "AttributeFlagsMap": null,
    "ImportanceOrdering": 0
  },

```

```
{
  "DisplayName": "Has Cisco WebEx",
  "FieldName": "TechIndicator_CiscoWebEx",
  "FieldNameInTarget": "TechIndicator_CiscoWebEx",
  "FieldType": "NVARCHAR(MAX)",
  "FieldJavaType": "String",
  "CustomerColumnName": null,
  "DataSource": "HGData_Pivoted_Source",
  "Description": "A domain using technology of Cisco WebEx behind
firewall",
  "IsSelected": true,
  "IsPremium": true,
  "Category": "Technology Profile",
  "Subcategory": "Collaboration",
  "IsInternal": false,
  "FundamentalType": "BOOLEAN",
  "AttributeFlagsMap": null,
  "ImportanceOrdering": 0
},
{
  "DisplayName": "Has SolarWinds (ALL RECORDS)",
  "FieldName": "TechIndicator_SolarWinds_ALLRECORDS",
  "FieldNameInTarget": "TechIndicator_SolarWinds_ALLRECORDS",
  "FieldType": "NVARCHAR(MAX)",
  "FieldJavaType": "String",
  "CustomerColumnName": null,
  "DataSource": null,
  "Description": "A domain using technology of SolarWinds (ALL RECORDS)
behind firewall",
  "IsSelected": true,
  "IsPremium": true,
  "Category": "Technology Profile",
  "Subcategory": "Network Management (Software)",
  "IsInternal": false,
  "FundamentalType": "BOOLEAN",
  "AttributeFlagsMap": null,
  "ImportanceOrdering": 0
},
{
  "DisplayName": "Has Vidyo",
  "FieldName": "TechIndicator_Vidyo",
  "FieldNameInTarget": "TechIndicator_Vidyo",
  "FieldType": "NVARCHAR(MAX)",
  "FieldJavaType": "String",
  "CustomerColumnName": null,
  "DataSource": null,
  "Description": "A domain using technology of Vidyo behind firewall",
  "IsSelected": true,
  "IsPremium": true,
  "Category": "Technology Profile",
  "Subcategory": "Online Video Platform (OVP)",
  "IsInternal": false,
  "FundamentalType": "BOOLEAN",
```



```
"AttributeFlagsMap": null,
"ImportanceOrdering": 0
},
{
  "DisplayName": "Has ReadyTalk",
  "FieldName": "TechIndicator_ReadyTalk",
  "FieldNameInTarget": "TechIndicator_ReadyTalk",
  "FieldType": "NVARCHAR(MAX)",
  "FieldJavaType": "String",
  "CustomerColumnName": null,
  "DataSource": null,
  "Description": "A domain using technology of ReadyTalk behind
firewall",
  "IsSelected": true,
  "IsPremium": true,
  "Category": "Technology Profile",
  "Subcategory": "Telephony",
  "IsInternal": false,
  "FundamentalType": "BOOLEAN",
  "AttributeFlagsMap": null,
  "ImportanceOrdering": 0
},
{
  "DisplayName": "Has BrightTALK",
  "FieldName": "TechIndicator_BrightTALK",
  "FieldNameInTarget": "TechIndicator_BrightTALK",
  "FieldType": "NVARCHAR(MAX)",
  "FieldJavaType": "String",
  "CustomerColumnName": null,
  "DataSource": null,
  "Description": "Embeddable videos from BrightTALK webinars.",
  "IsSelected": true,
  "IsPremium": true,
  "Category": "Technology Profile",
  "Subcategory": "Web & Portal Technology",
  "IsInternal": false,
  "FundamentalType": "BOOLEAN",
  "AttributeFlagsMap": null,
```

```
    "ImportanceOrdering": 0
  }
]
```

Scoring and Enrichment request

Request

```
Score and Enrichment Request
curl -X POST \
  https://apigw.lattice-engines.com/score/v01/record \
  -H 'authorization: Bearer e1039cc1-b743-4cf4-be33-b7e6cc2108ff' \
  -H 'content-type: application/json' \
  -d '{
    "idType": "TestRecord",
    "modelId": "ms__d51178e3-7c68-4f22-8503-8beda91f6aa0",
    "performEnrichment": false,
    "record": {
      "Id" : "record-id-001",
      "CompanyName": "Google",
      "Email": "test@google.com",
      "Website" : "google.com",
      "Country" : "United States",
      "PhoneNumber": "717-851-4849",
      "State": "CA"
    },
    "recordId": "record-id-001"
  }'
```

Response

Score and Enrichment Response

```
{
  "warnings": [],
  "timestamp": "2018-01-26T23:29:12.029Z",
  "id": "record-id-001",
  "latticeID": null,
  "score": 85,
  "rating": "B",
  "classification": null,
  "enrichmentAttributeValues": {
    "EMPLOYEES_HERE": 250,
    "EMPLOYEES_TOTAL": 61814,
    "TechIndicator_Zendesk": "No",
    "TechIndicator_NitroPDF": "No",
    "TechIndicator_LinkedInCompanyProfile": "No"
  }
}
```

Lattice API Documentation

Scoring API

Scoring API - Swagger.json

```
{
  "swagger": "2.0",
  "info": {
    "version": "v01",
    "title": "Lattice Scoring API"
  },
  "host": "apigw.lattice-engines.com",
  "basePath": "/v01",
  "schemes": [
    "https"
  ],
  "paths": {
    "/enrich/record/{uuid}": {
      "post": {
        "operationId": "getLeadEnrichmentValues",
        "consumes": [
          "application/json"
        ],
        "produces": [
          "application/json"
        ],
        "parameters": [
```

```
{
  "name": "Authorization",
  "in": "header",
  "required": true,
  "type": "string"
},
{
  "name": "uuid",
  "in": "path",
  "required": true,
  "type": "string"
},
{
  "in": "body",
  "name": "EnrichRequest",
  "required": true,
  "schema": {
    "$ref": "#/definitions/EnrichRequest"
  }
}
],
"responses": {
  "200": {
    "description": "200 response",
    "schema": {
      "$ref": "#/definitions/EnrichResponse"
    }
  }
},
"security": [
  {
    "api_key": []
  }
]
}
},
"/enrichment": {
  "get": {
    "operationId": "getLeadEnrichmentAttributes",
    "produces": [
      "application/json"
    ],
    "parameters": [
      {
        "name": "category",
        "in": "query",
        "required": false,
        "type": "string"
      },
      {
        "name": "offset",
        "in": "query",
        "required": false,
```

```

        "type": "string"
    },
    {
        "name": "Authorization",
        "in": "header",
        "required": true,
        "type": "string"
    },
    {
        "name": "subcategory",
        "in": "query",
        "required": false,
        "type": "string"
    },
    {
        "name": "attributeDisplayNameFilter",
        "in": "query",
        "required": false,
        "type": "string"
    },
    {
        "name": "onlySelectedAttributes",
        "in": "query",
        "required": false,
        "type": "string"
    },
    {
        "name": "max",
        "in": "query",
        "required": false,
        "type": "string"
    }
],
"responses": {
    "200": {
        "description": "200 response",
        "schema": {
            "$ref": "#/definitions/ArrayOfLeadEnrichmentAttribute"
        }
    }
},
"security": [
    {
        "api_key": []
    }
]
}
},
"/enrichment/categories": {
    "get": {
        "operationId": "getLeadEnrichmentCategories",
        "produces": [
            "application/json"
        ]
    }
}

```

```
],
"parameters": [
  {
    "name": "Authorization",
    "in": "header",
    "required": true,
    "type": "string"
  }
],
"responses": {
  "200": {
    "description": "200 response",
    "schema": {
      "$ref": "#/definitions/ArrayOfEmpty"
    }
  }
},
"security": [
  {
    "api_key": []
  }
]
}
},
"/enrichment/count": {
  "get": {
    "operationId": "getLeadEnrichmentAttributesCount",
    "produces": [
      "application/json"
    ],
    "parameters": [
      {
        "name": "subcategory",
        "in": "query",
        "required": false,
        "type": "string"
      },
      {
        "name": "category",
        "in": "query",
        "required": false,
        "type": "string"
      },
      {
        "name": "attributeDisplayNameFilter",
        "in": "query",
        "required": false,
        "type": "string"
      },
      {
        "name": "onlySelectedAttributes",
        "in": "query",
        "required": false,
```

```
        "type": "string"
      },
      {
        "name": "Authorization",
        "in": "header",
        "required": true,
        "type": "string"
      }
    ],
    "responses": {
      "200": {
        "description": "200 response",
        "schema": {
          "$ref": "#/definitions/Empty"
        }
      }
    },
    "security": [
      {
        "api_key": []
      }
    ]
  }
},
"/enrichment/premiumattributeslimitation": {
  "get": {
    "operationId": "getLeadEnrichmentPremiumAttributesLimitation",
    "produces": [
      "application/json"
    ],
    "parameters": [
      {
        "name": "Authorization",
        "in": "header",
        "required": true,
        "type": "string"
      }
    ],
    "responses": {
      "200": {
        "description": "200 response",
        "schema": {
          "$ref": "#/definitions/Empty"
        }
      }
    },
    "security": [
      {
        "api_key": []
      }
    ]
  }
},
```

```
"/enrichment/selectedattributes/count": {
  "get": {
    "operationId": "getLeadEnrichmentSelectedAttributeCount",
    "produces": [
      "application/json"
    ],
    "parameters": [
      {
        "name": "Authorization",
        "in": "header",
        "required": true,
        "type": "string"
      }
    ],
    "responses": {
      "200": {
        "description": "200 response",
        "schema": {
          "$ref": "#/definitions/Empty"
        }
      }
    },
    "security": [
      {
        "api_key": []
      }
    ]
  }
},
"/enrichment/selectedpremiumattributes/count": {
  "get": {
    "operationId": "getLeadEnrichmentSelectedAttributePremiumCount",
    "produces": [
      "application/json"
    ],
    "parameters": [
      {
        "name": "Authorization",
        "in": "header",
        "required": true,
        "type": "string"
      }
    ],
    "responses": {
      "200": {
        "description": "200 response",
        "schema": {
          "$ref": "#/definitions/Empty"
        }
      }
    },
    "security": [
      {

```



```
        "api_key": []
      }
    ]
  },
  "/enrichment/subcategories": {
    "get": {
      "operationId": "getLeadEnrichmentSubcategories",
      "produces": [
        "application/json"
      ],
      "parameters": [
        {
          "name": "category",
          "in": "query",
          "required": true,
          "type": "string"
        },
        {
          "name": "Authorization",
          "in": "header",
          "required": true,
          "type": "string"
        }
      ],
      "responses": {
        "200": {
          "description": "200 response",
          "schema": {
            "$ref": "#/definitions/Empty"
          }
        }
      },
      "security": [
        {
          "api_key": []
        }
      ]
    }
  },
  "/modeldetails": {
    "get": {
      "operationId": "getPaginatedModels",
      "produces": [
        "application/json"
      ],
      "parameters": [
        {
          "name": "start",
          "in": "query",
          "required": false,
          "type": "string"
        },
      ],
    }
  }
}
```

```

    {
      "name": "maximum",
      "in": "query",
      "required": true,
      "type": "string"
    },
    {
      "name": "considerAllStatus",
      "in": "query",
      "required": true,
      "type": "string"
    },
    {
      "name": "offset",
      "in": "query",
      "required": true,
      "type": "string"
    },
    {
      "name": "Authorization",
      "in": "header",
      "required": true,
      "type": "string"
    },
    {
      "name": "tenantIdentifier",
      "in": "query",
      "required": true,
      "type": "string"
    }
  ],
  "responses": {
    "200": {
      "description": "200 response",
      "schema": {
        "$ref": "#/definitions/ArrayOfModelDetail"
      }
    }
  },
  "security": [
    {
      "api_key": []
    }
  ]
},
"/modeldetails/count": {
  "get": {
    "operationId": "getModelCount",
    "produces": [
      "application/json"
    ],
    "parameters": [

```

```
{
  "name": "start",
  "in": "query",
  "required": false,
  "type": "string"
},
{
  "name": "considerAllStatus",
  "in": "query",
  "required": true,
  "type": "string"
},
{
  "name": "Authorization",
  "in": "header",
  "required": true,
  "type": "string"
},
{
  "name": "tenantIdentifier",
  "in": "query",
  "required": true,
  "type": "string"
}
],
"responses": {
  "200": {
    "description": "200 response",
    "schema": {
      "$ref": "#/definitions/Empty"
    }
  }
},
"security": [
  {
    "api_key": []
  }
]
},
"/models/types/{type}": {
  "get": {
    "operationId": "getActiveModels",
    "produces": [
      "application/json"
    ],
    "parameters": [
      {
        "name": "type",
        "in": "path",
        "required": true,
        "type": "string"
      },
    ],
  },
}
```

```

    {
      "name": "Authorization",
      "in": "header",
      "required": true,
      "type": "string"
    }
  ],
  "responses": {
    "200": {
      "description": "200 response",
      "schema": {
        "$ref": "#/definitions/ArrayOfModel"
      }
    }
  },
  "security": [
    {
      "api_key": []
    }
  ]
}
},
"/models/{modelId}/fields": {
  "get": {
    "operationId": "getModelFields",
    "produces": [
      "application/json"
    ],
    "parameters": [
      {
        "name": "modelId",
        "in": "path",
        "required": true,
        "type": "string"
      },
      {
        "name": "Authorization",
        "in": "header",
        "required": true,
        "type": "string"
      }
    ],
    "responses": {
      "200": {
        "description": "200 response",
        "schema": {
          "$ref": "#/definitions/Fields"
        }
      }
    }
  },
  "security": [
    {
      "api_key": []
    }
  ]
}

```

```

    }
  ]
}
},
"/record": {
  "post": {
    "operationId": "scorePercentileRecord",
    "consumes": [
      "application/json"
    ],
    "produces": [
      "application/json"
    ],
    "parameters": [
      {
        "name": "Authorization",
        "in": "header",
        "required": true,
        "type": "string"
      },
      {
        "in": "body",
        "name": "ScoreRequest",
        "required": true,
        "schema": {
          "$ref": "#/definitions/ScoreRequest"
        }
      }
    ],
    "responses": {
      "200": {
        "description": "200 response",
        "schema": {
          "$ref": "#/definitions/ScoreResponse"
        }
      }
    },
    "security": [
      {
        "api_key": []
      }
    ]
  }
},
"/record/debug": {
  "post": {
    "operationId": "scoreProbabilityRecord",
    "consumes": [
      "application/json"
    ],
    "produces": [
      "application/json"
    ],

```

```
"parameters": [
  {
    "name": "Authorization",
    "in": "header",
    "required": true,
    "type": "string"
  },
  {
    "in": "body",
    "name": "ScoreRequest",
    "required": true,
    "schema": {
      "$ref": "#/definitions/ScoreRequest"
    }
  }
],
"responses": {
  "200": {
    "description": "200 response",
    "schema": {
      "$ref": "#/definitions/ScoreResponse"
    }
  }
},
"security": [
  {
    "api_key": []
  }
]
},
"securityDefinitions": {
  "api_key": {
    "type": "apiKey",
    "name": "x-api-key",
    "in": "header"
  }
},
"definitions": {
  "ArrayOfEmpty": {
    "type": "array",
    "items": {
      "$ref": "#/definitions/Empty"
    }
  }
},
"EnrichResponseMetadata": {
  "type": "object",
  "required": [
    "requestId",
    "timestamp"
  ],
  "properties": {
```

```
    "warnings": {
      "type": "array",
      "description": "Warnings",
      "items": {
        "$ref": "#/definitions/Warning"
      }
    },
    "timestamp": {
      "type": "string",
      "description": "The UTC timestamp of this score in ISO8601
format"
    },
    "requestId": {
      "type": "string",
      "description": "The unique id associated to the request"
    }
  },
  "Warning": {
    "type": "object",
    "properties": {
      "warning": {
        "type": "string"
      },
      "warning_description": {
        "type": "string"
      }
    }
  },
  "ArrayOfLeadEnrichmentAttribute": {
    "type": "array",
    "items": {
      "$ref": "#/definitions/LeadEnrichmentAttribute"
    }
  },
  "EnrichResponse": {
    "type": "object",
    "properties": {
      "enrich_response_metadata": {
        "$ref": "#/definitions/EnrichResponseMetadata"
      }
    }
  },
  "ScoreRequest": {
    "type": "object",
    "required": [
      "modelId",
      "record"
    ],
    "properties": {
      "recordId": {
        "type": "string",
        "description": "Record ID"
      }
    }
  }
}
```

```

    },
    "idType": {
      "type": "string",
      "description": "Type of record ID"
    },
    "modelId": {
      "type": "string"
    },
    "source": {
      "type": "string",
      "description": "Name of the source system that originated this
score request."
    },
    "performEnrichment": {
      "type": "boolean",
      "description": "Should perform enrichment or not"
    },
    "rule": {
      "type": "string",
      "description": "Name of the rule that initiated this score
request"
    },
    "record": {
      "type": "object",
      "description": "A record is represented as a JSON Object; ie. {
\"field1\" : value1, \"field2\" : value2, .....}. At the minimum, in case
of lead type model, make sure to specify 'Email' field and for non-lead
type model specify either 'Website' or 'Domain' fields. If these fields are
not specified then specify both 'CompanyName' and 'State' fields",
      "additionalProperties": {
        "type": "object",
        "properties": {}
      }
    }
  },
  "LeadEnrichmentAttribute": {
    "type": "object",
    "properties": {
      "DisplayName": {
        "type": "string"
      },
      "FieldName": {
        "type": "string"
      },
      "FieldNameInTarget": {
        "type": "string"
      },
      "FieldType": {
        "type": "string"
      },
      "FieldJavaType": {
        "type": "string"
      }
    }
  }
}

```



```
    },
    "ColumnId": {
      "type": "string"
    },
    "JavaClass": {
      "type": "string"
    },
    "CustomerColumnName": {
      "type": "string"
    },
    "DataSource": {
      "type": "string"
    },
    "Description": {
      "type": "string"
    },
    "IsSelected": {
      "type": "boolean"
    },
    "IsPremium": {
      "type": "boolean"
    },
    "Category": {
      "type": "string"
    },
    "Subcategory": {
      "type": "string"
    },
    "IsInternal": {
      "type": "boolean"
    },
    "AttributeFlagsMap": {
      "type": "object",
      "additionalProperties": {
        "$ref": "#/definitions/JsonNode"
      }
    },
    "ImportanceOrdering": {
      "type": "integer",
      "format": "int32"
    },
    "FundamentalType": {
      "type": "string"
    }
  }
},
"JsonNode": {
  "type": "object",
  "properties": {
    "array": {
      "type": "boolean"
    },
    "null": {
```

```
    "type": "boolean"
  },
  "number": {
    "type": "boolean"
  },
  "int": {
    "type": "boolean"
  },
  "object": {
    "type": "boolean"
  },
  "valueNode": {
    "type": "boolean"
  },
  "containerNode": {
    "type": "boolean"
  },
  "missingNode": {
    "type": "boolean"
  },
  "pojo": {
    "type": "boolean"
  },
  "integralNumber": {
    "type": "boolean"
  },
  "floatingPointNumber": {
    "type": "boolean"
  },
  "short": {
    "type": "boolean"
  },
  "long": {
    "type": "boolean"
  },
  "double": {
    "type": "boolean"
  },
  "bigDecimal": {
    "type": "boolean"
  },
  "bigInteger": {
    "type": "boolean"
  },
  "textual": {
    "type": "boolean"
  },
  "boolean": {
    "type": "boolean"
  },
  "binary": {
    "type": "boolean"
  },
  },
```

```

    "nodeType": {
      "type": "string",
      "enum": [
        "ARRAY",
        "BINARY",
        "BOOLEAN",
        "MISSING",
        "NULL",
        "NUMBER",
        "OBJECT",
        "POJO",
        "STRING"
      ]
    },
    "float": {
      "type": "boolean"
    }
  },
  "ScoreResponse": {
    "type": "object",
    "required": [
      "id",
      "latticeID",
      "timestamp"
    ],
    "properties": {
      "warnings": {
        "type": "array",
        "description": "Warnings",
        "items": {
          "$ref": "#/definitions/Warning"
        }
      },
      "timestamp": {
        "type": "string",
        "description": "The UTC timestamp of this score in ISO8601
format"
      },
      "id": {
        "type": "string",
        "description": "Record ID"
      },
      "latticeID": {
        "type": "string",
        "description": "Lattice ID for record"
      },
      "score": {
        "type": "integer",
        "format": "int32",
        "description": "Score"
      },
      "rating": {

```

```

    "type": "string",
    "description": "Bucket Information Based on Score"
  },
  "classification": {
    "type": "string",
    "description": "Classification"
  },
  "enrichmentAttributeValues": {
    "type": "object",
    "description": "Enrichment attribute values",
    "additionalProperties": {
      "type": "object",
      "properties": {}
    }
  }
},
"Field": {
  "type": "object",
  "required": [
    "fieldName",
    "fieldType"
  ],
  "properties": {
    "fieldName": {
      "type": "string",
      "description": "Name of the field"
    },
    "fieldType": {
      "type": "string",
      "description": "Data type of the field",
      "enum": [
        "BOOLEAN",
        "INTEGER",
        "FLOAT",
        "LONG",
        "STRING"
      ]
    },
    "displayName": {
      "type": "string",
      "description": "Display name of the field"
    },
    "isPrimary": {
      "type": "boolean"
    }
  }
},
"Empty": {
  "type": "object",
  "title": "Empty Schema"
},
"Fields": {

```

```
"type": "object",
"required": [
  "fields",
  "modelId",
  "validationExpression"
],
"properties": {
  "modelId": {
    "type": "string",
    "description": "Unique model id"
  },
  "fields": {
    "type": "array",
    "description": "List of field",
    "items": {
      "$ref": "#/definitions/Field"
    }
  },
  "validationExpression": {
    "type": "string",
    "description": "Validation Expression"
  }
}
},
"ArrayOfModel": {
  "type": "array",
  "items": {
    "$ref": "#/definitions/Model"
  }
},
"Model": {
  "type": "object",
  "required": [
    "modelId",
    "type"
  ],
  "properties": {
    "modelId": {
      "type": "string",
      "description": "Unique model id"
    },
    "name": {
      "type": "string",
      "description": "User customizable model name"
    },
    "type": {
      "type": "string",
      "description": "Model Type",
      "enum": [
        "account",
        "contact"
      ]
    }
  }
}
```

```
}
},
"ModelDetail": {
  "type": "object",
  "properties": {
    "model": {
      "description": "Model",
      "$ref": "#/definitions/Model"
    },
    "status": {
      "type": "string",
      "description": "Model status enum (Active, Deactive, Deleted)",
      "enum": [
        "ACTIVE",
        "INACTIVE",
        "DELETED"
      ]
    },
    "fields": {
      "description": "Model fields",
      "$ref": "#/definitions/Fields"
    },
    "lastModifiedTimestamp": {
      "type": "string",
      "description": "Last modified timestamp in ISO8601 format "
    }
  }
},
"ArrayOfModelDetail": {
  "type": "array",
  "items": {
    "$ref": "#/definitions/ModelDetail"
  }
},
"EnrichRequest": {
  "type": "object",
  "required": [
    "Domain"
  ],
  "properties": {
    "Domain": {
      "type": "string",
      "description": "Domain"
    },
    "Company": {
      "type": "string",
      "description": "Company"
    },
    "State": {
      "type": "string",
      "description": "State"
    },
    "Country": {
```

```
    "type": "string",
    "description": "Country"
  },
  "source": {
    "type": "string",
    "description": "Name of the source system that originated this
score request."
  },
  "DUNS": {
    "type": "string",
    "description": "DUNS"
  }
}
```

```
}  
  }  
}
```