LUMENDATA

Data Sheet

An Overview of REST API in IICS

The One-Stop Guide

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Business 360 API

Within the architecture of Informatica Intelligent Cloud Services, a suite of APIs is available, facilitating seamless interaction with diverse components and enabling programmatic task execution. These APIs empower users to automate workflows, seamlessly integrate with external systems, and augment the operational capabilities of IICS.

REST API Guidelines

- All resources and attributes are case sensitive.
- Start a session with the login resource; it expires after 30 minutes of inactivity. Use logout to end the session.
- Specify formats using Content-Type for request and except for response. Default is JSON if not configured.
- For XML requests, enclose objects with tags. Lists of objects in XML responses are enclosed in tags.
- Use placeholders for session ID and base URL in request headers. Replace with the actual data from login response.
- Include all fields in request object for POST requests unless using partial mode (JSON only). Most resources don't support partial mode by default.
- Enclose POST request attributes as specified, otherwise include them in the request body.

Implementation of APIs

Business 360 API request

- We use login API request using POST call to generate session_Id to perform other requests.
- We will use that session_Id to perform all the other requests.

Swagger Files:
A Swagger File is a specification for documenting REST APIs; it specifies the format (URL, method, and representation) to describe REST web services. A Swagger file is a JSON file, and you need to have one to configure the IICS REST V2 connection to integrate with any REST API.

- Update/Create the HTTP Verb to POST and modify the API URL.

nandini_swagger_post_create

Create a swagger file.

Swagger File Details

Name:	nandini_swagger_post_create
Description:	
Runtime Environment:	Nandini K
URL:	https://usw1-mdm.dmp-us.informaticacloud.com
Verb:	POST
Authentication Type:	None
API Base Path:	/business-entity/public/api/v1/entity
API Path:	/nandini_org?sourceSystem=b360.default.system&{sourcePKey}
Username:	
Password:	
Token:	
Token Secret:	
Consumer Key:	
Consumer Secret:	
Accept:	application/json
Headers:	{ "IDS-SESSION-ID":"3LGEbPtRhalcbrp73VEiin" }
Query Params:	
Operation Id:	nandini_swagger_create
Content Type:	application/json
Raw Body:	

- Update the HTTP Verb to PUT and modify the API URL accordingly.

hp_updated_name

Create a swagger file.

Swagger File Details

Name:	hp_updated_name
Description:	
Runtime Environment:	Hushalparmar
URL:	https://usw1-mdm.dmp-us.informaticacloud.com
Verb:	PUT
Authentication Type:	None
API Base Path:	/business-entity/public/api/v1/entity
API Path:	/patient_be/{businessId}/?sourceSystem=b360.default.system
Username:	
Password:	
Token:	
Token Secret:	
Consumer Key:	
Consumer Secret:	
Accept:	application/json
Headers:	{ "IDS-SESSION-ID":"9FjeHXBov5pcWV4E0KXLQD" }
Query Params:	
Operation Id:	update
Content Type:	application/json
Raw Body:	

- For PATCH requests, change the HTTP Verb to PATCH and adjust the API URL as needed.

swag_vj_patch_call_3

Create a swagger file.

Swagger File Details

Name:	swag_vj_patch_call_3
Description:	
Runtime Environment:	Vijay Premkumar
URL:	https://usw1-mdm.dmp-us.informaticacloud.com
Verb:	PATCH
Authentication Type:	None
API Base Path:	/business-entity/public/api/v1
API Path:	/entity/new_mart/{mdm_id}?sourceSystem=c360.default.system
Username:	
Password:	
Token:	
Token Secret:	
Consumer Key:	
Consumer Secret:	
Accept:	application/json
Headers:	{"IDS-SESSION-ID": "7b69Fo62TIijuX2Ay3ViOh"}
Query Params:	
Operation Id:	login_vj_op_pc_3
Content Type:	application/json
Raw Body:	[{ "op":"replace", "path":"valuation", "value":"7000000" }]

- Similarly, for GET requests, ensure the HTTP Verb is changed to GET and align the API URL accordingly.

swag_vj_op_get

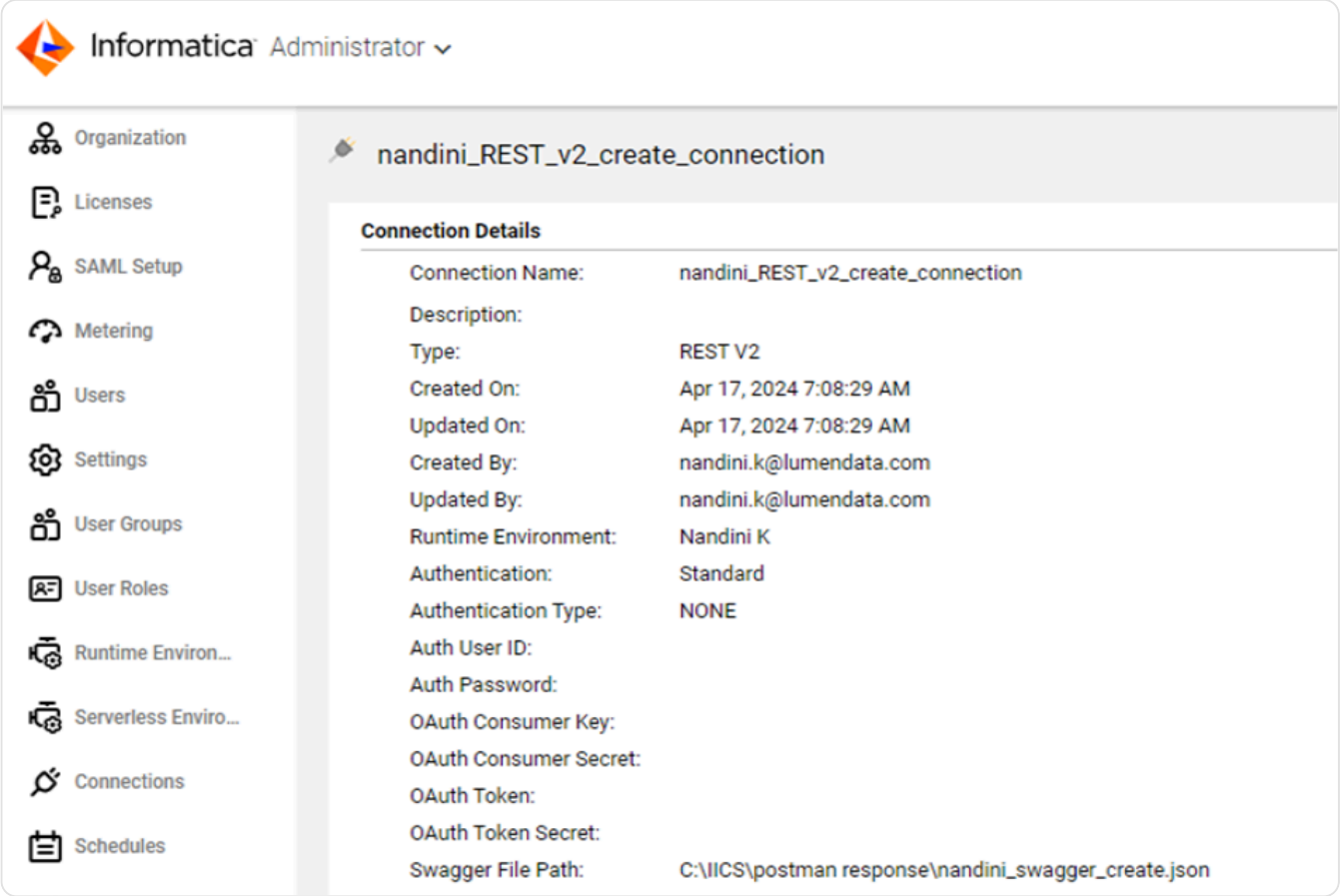
Create a swagger file.

Swagger File Details

Name:	swag_vj_op_get
Description:	
Runtime Environment:	Vijay Premkumar
URL:	https://usw1-mdm.dmp-us.informaticacloud.com
Verb:	GET
Authentication Type:	None
API Base Path:	/business-entity/public/api/v1
API Path:	/entity/new_mart/{mdmid_1}
Username:	
Password:	
Token:	
Token Secret:	
Consumer Key:	
Consumer Secret:	
Accept:	application/json
Headers:	{"IDS-SESSION-ID": "9comyxvyVeulR6GZgyI1MY"}
Query Params:	
Operation Id:	get_vj_op_mas_rec
Content Type:	application/json

REST V2 Connection:
A REST V2 connection is required to facilitate REST operations. We will integrate the Swagger file into the connection for enhanced functionality. We need to have different REST V2 connection for different API requests.

The REST V2 connection for POST API is shown below:



- Similarly for the rest of the requests (PUT, PATCH and GET) we need to create a new connection and specify the respective swagger file for the API calls.

Business Services:
Utilize the respective REST V2 connections to establish corresponding Business services, thereby assuming responsibility for the management of API requests. Implement the following adjustments:

- Mention name, operation name, and connection name here in business service.
- Below are the three business services created for the respective API calls.

POST business service :

bs_nandini_create

Business Service Details

Name:	bs_nandini_create
Location:*	Nandini\Nandini_Organization
Description:	
Connection:	nandini_REST_v2_create_connection
Created On:	Apr 17, 2024 7:10:22 AM
Updated On:	Apr 17, 2024 7:10:22 AM
Created By:	nandini.k@lumendata.com
Updated By:	nandini.k@lumendata.com

Operations

Name	Origin Name	Description
nandini_swagger_create	nandini_swagger_create	

PUT business service :

hp_bs_updated_body

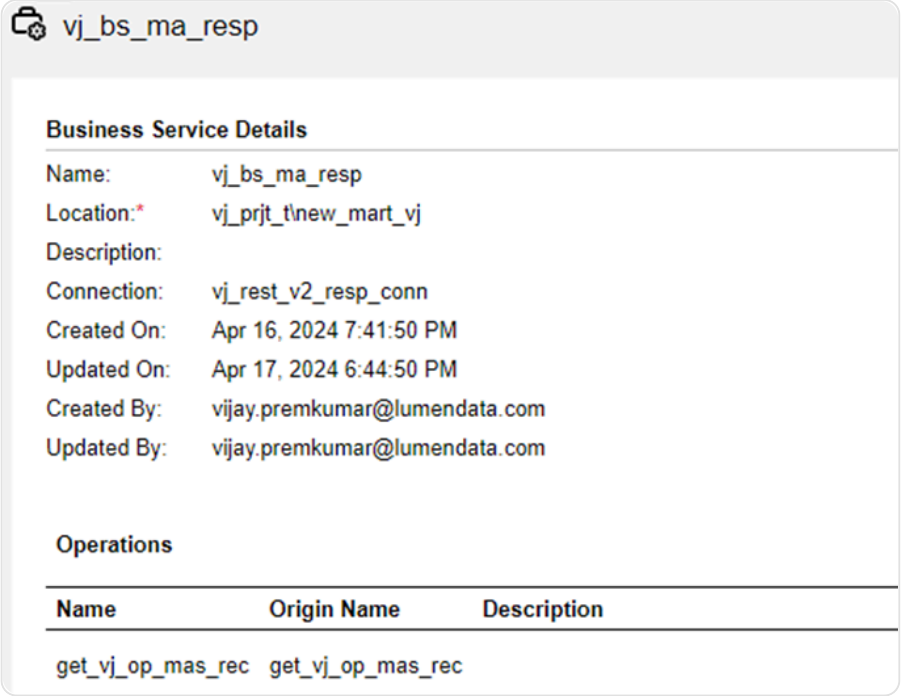
Business Service Details

Name:	hp_bs_updated_body
Location:*	Hushal_project\hushal_mapping
Description:	
Connection:	Hushal_rest_v2_up_conn
Created On:	Apr 17, 2024 4:33:08 PM
Updated On:	Apr 17, 2024 5:49:31 PM
Created By:	hushal.parmar@lumendata.com
Updated By:	hushal.parmar@lumendata.com

Operations

Name	Origin Name	Description
update	update	

GET business service :



vj_bs_ma_resp

Business Service Details

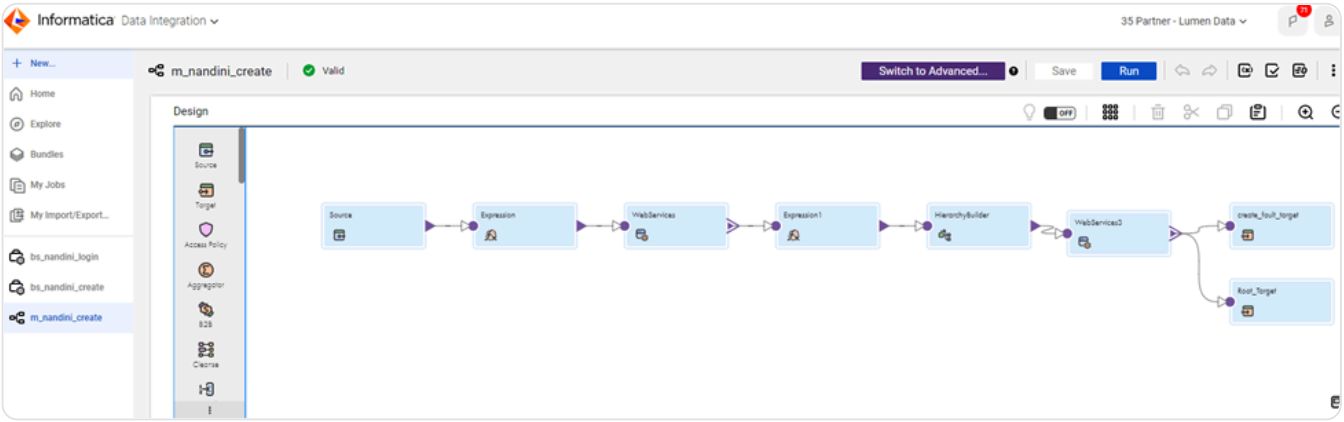
Name:	vj_bs_ma_resp
Location:*	vj_prjt_t\new_mart_vj
Description:	
Connection:	vj_rest_v2_resp_conn
Created On:	Apr 16, 2024 7:41:50 PM
Updated On:	Apr 17, 2024 6:44:50 PM
Created By:	vijay.premkumar@lumendata.com
Updated By:	vijay.premkumar@lumendata.com

Operations

Name	Origin Name	Description
get_vj_op_mas_rec	get_vj_op_mas_rec	

POST Mapping:

In this mapping, we will use webservice transformation which is configured with the respective business service.

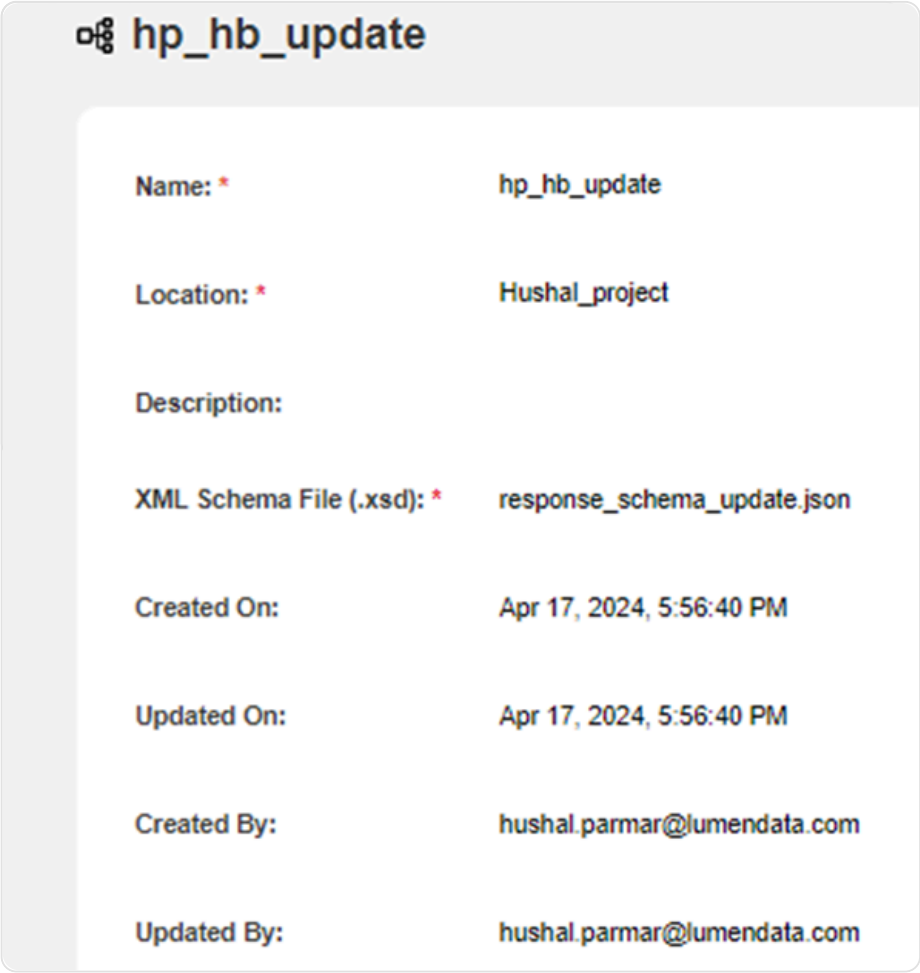


PUT Mapping:

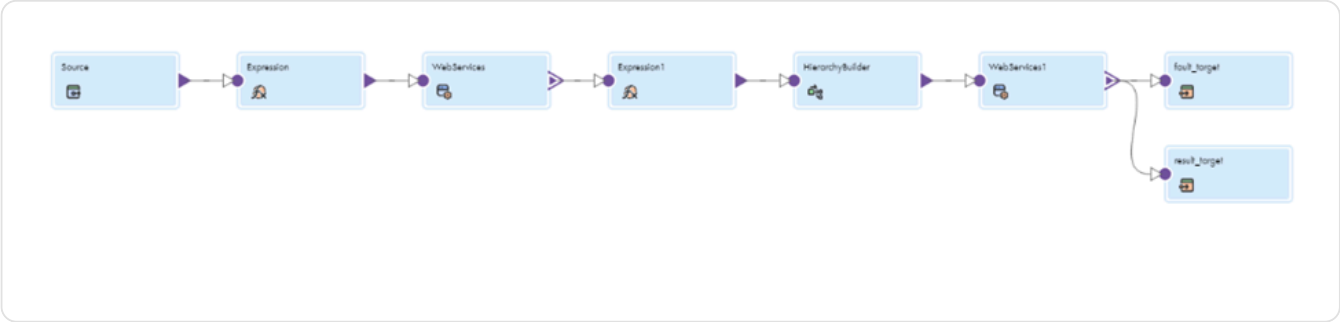
We will use the webservice which is configured with the respective business service. We need the session Id for update request. We are using Hierarchy builder to define the structure of output.

Hierarchy builder:

The Hierarchy Builder transformation is a versatile tool that facilitates the conversion of relational data into hierarchical structures. It operates based on a predefined schema, allowing you to tailor the output format according to your needs. This transformation supports various output formats including Avro, JSON, ORC, Parquet, and XML. We will upload the schema file which contains the structure of our output.

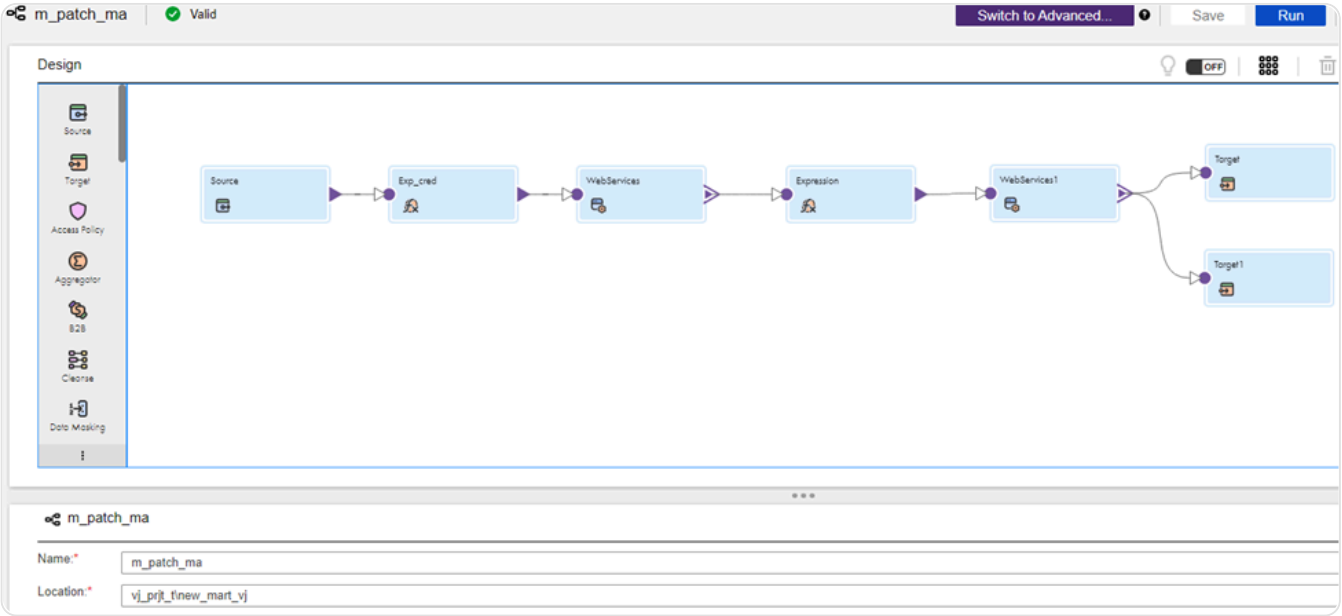


We will use the above Hierarchy builder in the following mapping to update the record using PUT REST API call.

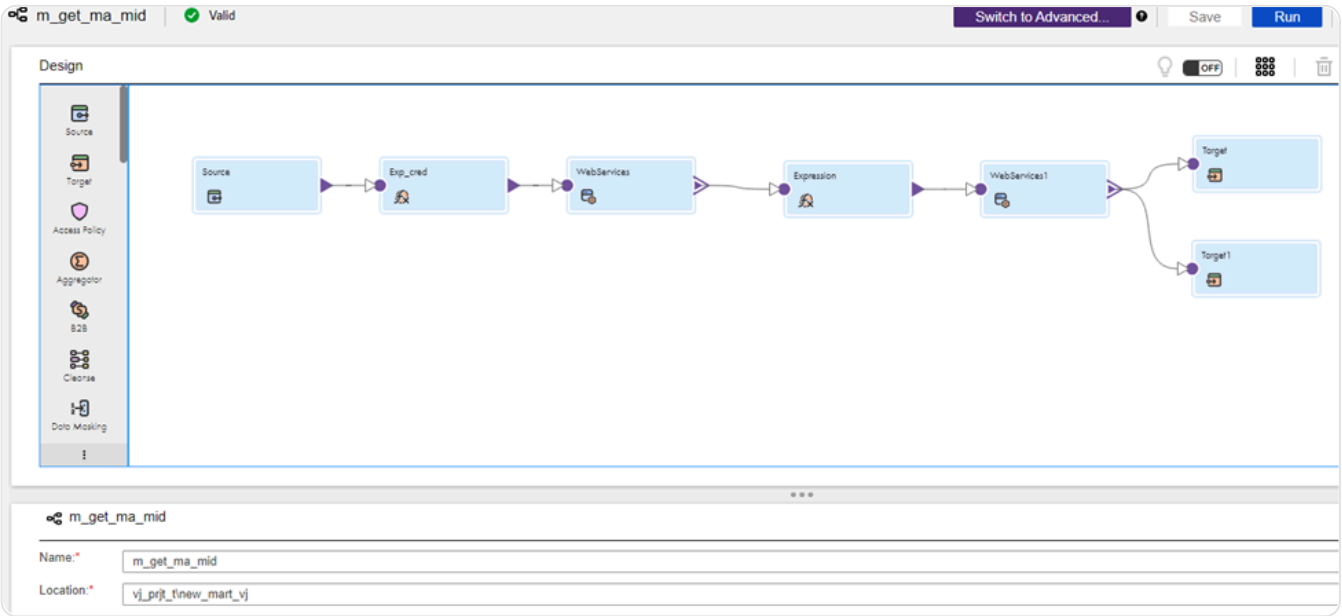


PATCH Mapping:

Just like the previous mapping, we pass the updated value in a raw body along with Business id of that record.



GET Mapping:



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About LumenData

LumenData is a leading provider of **Enterprise Data Management, Cloud & Analytics** solutions. We help businesses navigate their data visualization and analytics anxieties and enable them to accelerate their innovation journeys.

Founded in 2008, with locations in multiple countries, LumenData is privileged to serve over 100 leading companies. LumenData is **SOC2 certified** and has instituted extensive controls to protect client data, including adherence to GDPR and CCPA regulations.

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