

Reference manual

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Genesys G5 API reference manual

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Introduction

Welcome to the Thermo Scientific™ Genesys™ G5 Web API reference manual. This document provides detailed information about the available API endpoints, including HTTP methods, parameters, request bodies, and responses. The API is designed to enable programmatic interaction with the Genesys G5 resources.

Getting started

To use the Genesys G5 Web API with the Thermo Scientific™ SciVault™ 2 compliance software, you must obtain an API key and include it in your requests for authentication. Ensure that your HTTP client is configured to handle JSON responses and that you are familiar with standard HTTP methods like GET, POST, PUT, and DELETE.

Base URL

All API endpoints are relative to the following base URL. Replace <host> with the appropriate IP address or computer name for your environment.

```
http://<host>:60101/
```

The base route for all controllers is:

```
webapi/v1/{controller}
```

Authentication

All requests to the Genesys G5 Web API must include an API key for authentication if SciVault 2 software is enabled. You can pass the API key in the Authorization header as follows:

```
Authorization: Bearer YOUR_API_KEY
```

Request and response formats

Request bodies should be sent as JSON where applicable, and responses are typically returned as JSON. For requests that include a body, set the Content-Type header to application/json unless otherwise noted (e.g., multipart/form-data).

Common response codes

- **200 OK:** The request was successful.
- **400 Bad Request:** The request was invalid or cannot be otherwise served.
- **500 Internal Server Error:** An error occurred on the server side.

API endpoints

Endpoints are grouped by controller. The detailed reference in the next section describes the methods, parameters, request body, and responses for each endpoint.

- **Application:**
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- **ApplicationSetup:**
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Application

Base path: /webapi/v1/Application

GET /webapi/v1/Application/GetAll

Query parameters

includeInactive

Query Parameter — format: boolean

Responses

200

Success

Body: Application[]

POST /webapi/v1/Application

Request body

body Application

Responses

200

Success

Body: 200 OK

PUT /webapi/v1/Application

Request body

body Application

Responses

200

Success

Body: 200 OK

DELETE /webapi/v1/Application

Query parameters

id

Query Parameter — format: uuid

Responses

200

Success

Body: 200 OK

ApplicationSetup

Base path: /webapi/v1/ApplicationSetup

GET /webapi/v1/ApplicationSetup

Query parameters

label

Query Parameter — format: string

level

Query Parameter — format: string

Responses

200

Success

Body: { "Settings": object }

GET /webapi/v1/ApplicationSetup/{correlationId}

Path parameters

correlationId

Path Parameter — format: uuid

Responses

200

Success

Body: ApplicationSetup[]

POST /webapi/v1/ApplicationSetup

Request body

body ApplicationSetup

Responses

200

Success

Body: Guid (new record id)

PUT /webapi/v1/ApplicationSetup

Request body

body ApplicationSetup

Responses

200

Success

Body: ApplicationSetup

DELETE /webapi/v1/ApplicationSetup/{id}

Path parameters

id

Path Parameter — format: uuid

Responses

200

Success

Body: Guid

Activation

Base path: /webapi/v1/Activation

GET /webapi/v1/Activation/{type}

Path parameters

type

Path Parameter — type: ActivateProductEnum

Responses

200

Success

Body: 200 OK

GET /webapi/v1/Activation

Responses

200

Success

Body: ActivateProductEnum or domain-specific activation info

ColorCalculation

Base path: /webapi/v1/ColorCalculation

GET /webapi/v1/ColorCalculation/{colorCalculationType}

Path parameters

colorCalculationType

Path Parameter — type: ColorCalculationType

Responses

200

Success

Body: string (JSON string)

POST /webapi/v1/ColorCalculation/AddCustomColorDifference

Request body

body CustomColorDifference

Responses

200

Success

Body: 0

DELETE /webapi/v1/ColorCalculation/{colorDifferenceId}

Path parameters

colorDifferenceId

Path Parameter — format: uuid

Query parameters

userName

Query Parameter — format: string

Responses

200

Success

Body: 0

PUT /webapi/v1/ColorCalculation

Request body

body CustomColorDifferenceDto

Responses

200

Success

Body: edit result

GET /webapi/v1/ColorCalculation/LoadCustomColorDifferences

Query parameters

ids

Query Parameter — array[string] multi-value

Responses

200

Success

Body: domain result

GET /webapi/v1/ColorCalculation/LoadColorDifferences

Responses

200

Success

Body: 0

GET /webapi/v1/ColorCalculation/GetThicknessCorrectionTypes

Responses

200

Success

Body: domain result

GET /webapi/v1/ColorCalculation/LoadMeasurementsAsync/{experimentId}

Path parameters

experimentId

Path Parameter — format: uuid

Responses

200

Success

Body: 0

POST /webapi/v1/ColorCalculation

Request body

body CalculateColor

Responses

200

Success

Body: calculation result

GET /webapi/v1/ColorCalculation/GetCorrectedMeasurementNames

Responses

200
Success
Body: corrected measurement list

POST /webapi/v1/ColorCalculation/SaveCorrectedMeasurements

Request body

body IEnumerable<CorrectedMeasurementInfo>

Responses

200
Success
Body: 0

POST /webapi/v1/ColorCalculation/SaveColorCalculationResult

Request body

body List<CalculationResultItem>

Responses

200
Success
Body: 0

GET /webapi/v1/ColorCalculation/GetDataHandling

Responses

200
Success
Body: domain result

Calculation

Base path: /webapi/v1/Calculation

POST /webapi/v1/Calculation/CheckEquation

Request body

body EquationCheckModel

Responses

200
Success
Body: validation result

DataExport

Base path: /webapi/v1/DataExport

GET /webapi/v1/DataExport/locations

Responses

200
Success
Body: AvailableLocation[]

GET /webapi/v1/DataExport/QueryGnsFiles

Responses

200
Success
Body: file list

GET /webapi/v1/DataExport/QueryCustomFiles

Responses

200
Success
Body: file list

GET /webapi/v1/DataExport/QueryFiles

Query parameters

extension
Query Parameter — format: string

Responses

200
Success
Body: file list

POST /webapi/v1/DataExport/eula

Request body

body string (filePath)

Responses

200
Success
500
Error
Body: 200 OK (info) or 500 (error)

POST /webapi/v1/DataExport/log

Request body

body string (filePath)

Responses

200
Success
Body: 200 OK

DigitalSignature

Base path: /webapi/v1/DigitalSignature

GET /webapi/v1/DigitalSignature/Query

Query parameters

QueryRequest

Query Parameter

Responses

200

Success

Body: signature entries

GET /webapi/v1/DigitalSignature/Veracity

Query parameters

VerityRequest

Query Parameter

Responses

200

Success

Body: verification result

POST /webapi/v1/DigitalSignature

Request body

body SignRequest

Responses

200

Success

Body: signature result

Export

Base path: /webapi/v1/Export

POST /webapi/v1/Export

Request body

body ExportReportRequest

Responses

200

Success

Body: export result

ExportSetting

Base path: /webapi/v1/ExportSetting

GET /webapi/v1/ExportSetting

Responses

200

Success

Body: path config list

POST /webapi/v1/ExportSetting

Request body

body ExportSetting

Responses

200

Success

Body: path config list

DELETE /webapi/v1/ExportSetting

Query parameters

id

Query Parameter — format: uuid

Responses

200

Success

Body: path config list

POST /webapi/v1/ExportSetting/Test

Request body

body ExportSetting

Responses

200

Success

Body: check result

File

Base path: /webapi/v1/File

POST /webapi/v1/File/upload

Form parameters

file

Form Parameter — type: IFormFile

savePath

Form Parameter — format: string

Responses

200

Success

Body: FileSaveResponse

POST /webapi/v1/File/upload-content

Request body

body FileSaveRequest

Responses

200

Success

Body: FileSaveResponse

POST /webapi/v1/File/filePath

Request body

body string (filePath)

Responses

200

Success

Body: string (file content)

Measurement

Base path: /webapi/v1/Measurement

GET /webapi/v1/Measurement/{experimentId}

Path parameters

experimentId

Path Parameter — format: uuid

Query parameters

startPage

Query Parameter — format: int32

pageCount

Query Parameter — format: int32

Responses

200

Success

Body: measurement data string

PUT /webapi/v1/Measurement/UpdateSampleName/{id}

Path parameters

id

Path Parameter — format: uuid

Query parameters

newName

Query Parameter — format: string

Responses

200

Success

Body: old name

DELETE /webapi/v1/Measurement/{experimentId}

Path parameters

experimentId

Path Parameter — format: uuid

Request body

body IList<Guid> (idList)

Responses

200

Success

Body: deleted list

GET /webapi/v1/Measurement/FindPeaks

Query parameters

PeakQuery

Query Parameter

Responses

200

Success

Body: { Peaks, SmoothPoints }

GET /webapi/v1/Measurement/GetPeakAreas

Query parameters

PeakAreaQuery

Query Parameter

Responses

200

Success

Body: { PeakAreaAndHeights }

GET /webapi/v1/Measurement/CalculatePeakArea

Query parameters

SignlePeakArea

Query Parameter

Responses

200

Success

Body: single peak area result

GET /webapi/v1/Measurement/GetRates

Query parameters

RateQuery

Query Parameter

Responses

200

Success

Body: { Rates }

Method

Base path: /webapi/v1/Method

GET /webapi/v1/Method/GetMethodsByApplicationId/{id}

Path parameters

id

Path Parameter — format: uuid

Responses

200

Success

Body: Method[]

GET /webapi/v1/Method/GetMethod/{id}

Path parameters

id

Path Parameter — format: uuid

Responses

200

Success

Body: Method

GET /webapi/v1/Method/GetSmartMethods

Responses

200

Success

Body: smart method list

POST /webapi/v1/Method

Request body

body Method

Responses

200

Success

Body: Method

POST /webapi/v1/Method/import

Request body

body Method

Responses

200

Success

Body: Method

POST /webapi/v1/Method/schedulePVMethod

Request body

body SchedulePVMethod

Responses

200

Success

Body: PV expiration alert

PUT /webapi/v1/Method

Request body

body Method

Responses

200

Success

Body: Method

DELETE /webapi/v1/Method/{id}

Path parameters

id

Path Parameter — format: uuid

Responses

200

Success

Body: Guid

DELETE /webapi/v1/Method

Request body

body List<Guid>

Responses

200

Success

Body: List<Guid>

GET /webapi/v1/Method/SwitchSmartStart/{id}/{isEnabled}

Path parameters

id

Path Parameter — format: uuid

isEnabled

Path Parameter — format: boolean

Responses

200

Success

Body: Guid

Preference

Base path: /webapi/v1/Preference

POST /webapi/v1/Preference

Request body

body Preference

Responses

200

Success

Body: 200 OK

GET /webapi/v1/Preference

Responses

200

Success

Body: Preference

PrintManagement

Base path: /webapi/v1/PrintManagement

GET /webapi/v1/PrintManagement/Get

Responses

200
Success
Body: printer list

POST /webapi/v1/PrintManagement/Print

Request body

body PrintRequest

Responses

200
Success
Body: 200 OK

GET /webapi/v1/PrintManagement/TestThermalPrinter/{type}

Path parameters

type
Path Parameter — format: int32

Responses

200
Success
Body: 200 OK

Quant

Base path: /webapi/v1/Quant

POST /webapi/v1/Quant

Request body

body QuantRequest

Responses

200
Success
Body: quant result

POST /webapi/v1/Quant/LoadMethod

Request body

body LoadQuantMethodRequest

Responses

200
Success
Body: load result

POST /webapi/v1/Quant/DeleteStandard

Request body

body DeleteStandardRequest

Responses

200
Success
Body: 200 OK

SmartStart

Base path: /webapi/v1/SmartStart

GET /webapi/v1/SmartStart

Responses

400
Error
Body: bool, returns 400 Bad Request on failure

Experiment

Base path: /webapi/v1/Experiment

GET /webapi/v1/Experiment/{id}

Path parameters

id
Path Parameter — format: uuid

Responses

200
Success
Body: Experiment

GET /webapi/v1/Experiment/nonmeasurements/{id}

Path parameters

id
Path Parameter — format: uuid

Responses

200
Success
Body: Experiment (without measurements)

GET /webapi/v1/Experiment/Query

Query parameters

ExperimentQuery
Query Parameter

Responses

200
Success
Body: paged result, with X-Pagination header

GET /webapi/v1/Experiment/QueryPerformance

Query parameters

ExperimentQuery
Query Parameter

Responses

200
Success
Body: paged result, with X-Pagination header

GET /webapi/v1/Experiment/Method/{id}

Path parameters

id
Path Parameter — format: uuid

Responses

200
Success
Body: Method

POST /webapi/v1/Experiment/UpdateMethod

Request body

body UpdateExperimentMethodRequest

Responses

200
Success
Body: 200 OK

GET /webapi/v1/Experiment/DiagnosticLastRun

Query parameters

serial
Query Parameter — format: string

Responses

200
Success
Body: diagnostic time

PUT /webapi/v1/Experiment/UpdateName/{id}

Path parameters

id
Path Parameter — format: uuid

Query parameters

newName
Query Parameter — format: string

Responses

200
Success
Body: string (new name)

PUT /webapi/v1/Experiment/UpdateExtra

Request body

body ExperimentExtra

Responses

200
Success
Body: 200 OK

PUT /webapi/v1/Experiment/End

Request body

body NameTagsInfo

Responses

200
Success
Body: Guid (ExperimentId)

DELETE /webapi/v1/Experiment

Request body

body IList<Guid>

Responses

200
Success
Body: IList<Guid>

POST /webapi/v1/Experiment/UploadPath

Request body

body string (filePath)

Responses

200
Success
Body: import result dictionary

POST /webapi/v1/Experiment/Upload

Form parameters

formFile
Form Parameter — type: IFormFile

Responses

200
Success
Body: import result dictionary

Schemas

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Application

Id — application id	UUID format: uuid
Name — name	String
Description	String
Icon	String
IsEditable	Boolean
IsCustom	Boolean
IsActive	Boolean
Methods — methods	array[Method]

ApplicationSetup

Id — record id	UUID format: uuid
CorrelationId	UUID format: uuid
Label	String
Level	String
Owner	String
CreationTime	Date format: date-time
ExtraJson	String

ActivateProductEnum

Enum in	
Hornbill.Common.Contracts.Enumerations.	
ActivateProductEnum	

CustomColorDifference

Id	UUID format: uuid
CalculateId	String
Name	String
WavelengthRange	WavelengthRange
Value1	Double format: double
Value2	Double format: double
Value3	Double format: double
IsDeleted	Boolean
CreatedTime	Date format: date-time
CreatedBy	String
LastModified	Date format: date-time
ModifiedBy	String
CreatedFrom — computer name	String
ModifiedFrom	String

CustomColorDifferenceDto

Id	UUID format: uuid
Name	String
WavelengthRange	WavelengthRange
Values	array[Double]
UserName	String

CalculateColor

MeasurementIds	array[UUID]
ThicknessCorrectionType	ThicknessCorrectionType
ThicknessDesired	Double format: double
ThicknessMeasured	Double format: double
ReflectanceOrRefractiveIndex	Double format: double
ColorEvaluationItem	ColorCalculationItem
CIETristimulusValuesXYZItem	ColorCalculationItem
ChromaticityCoordinatesxyYItem	ColorCalculationItem
CIELabItem	ColorCalculationItem
CIELChItem	ColorCalculationItem
ColorDifferenceItem	ColorCalculationItem
YellownessIndexItem	ColorCalculationItem
WhitenessIndexItem	ColorCalculationItem
ColorValueItem	ColorCalculationItem

ColorCalculationItem

ParentItem	ColorCalculationItem
SubItemList	array[ColorCalculationItem]
Id	String
Name	String
Desc	String
WavelengthRange	WavelengthRange
ColorDifferenceExample	array[Double]
IsSelected	Boolean

CorrectedMeasurementInfo

OriginalMeasurementId	UUID format: uuid
CorrectedMeasurementName	String

CalculationResultItem

Id	UUID format: uuid
SampleName	String
FunctionCalculationResults	array [FunctionCalculationResult]

FunctionCalculationResult

FunctionName	String
Result	String

EquationCheckModel

Equation	String
ExistEquationSymbols	map
StandardNames	array[String]
ReplicateNumber	Integer format: int32
ParameterSymbols	array[String]

AvailableLocation

Name	String
Location	String
IsNetwork	Boolean

QueryRequest

RecordId	UUID format: uuid
Type	String

VerityRequest

TargetSignature	String
Type	String
JsonData	String

SignRequest

RecordId	UUID format: uuid
Type	String
Signer	String
SignAt	Date format: date-time
Reason	String
TimeOffset	String
IsUploaded	Boolean

ExportReportRequest

FolderPath — if empty, return byte[] to frontend	String
FileTypeList	array[String]
ExperimentDic	map
CombineExport	Boolean

ColumnProperty

ColumnName	String
PropertyName	String
DecimalPlaces	Integer format: int32
Factor	Double format: double
TimeFormat	String

ExportSetting

External model:
Thermo.LubanPlatform.ExportSetting.Models.ExportSetting

FileSaveResponse

FileName	String
FileLength	Long format: int64
SaveTo	String

FileSaveRequest

SavePath	String
FileContent	String

PeakQuery

MeasureQuantId	UUID format: uuid
PeakStartX	Double format: double
PeakEndX	Double format: double
PeakThresholdY	Double format: double
MaxPeaks	Integer format: int32
IsSmooth	Boolean
PeakOption	PeakSearchOptions

PeakAreaQuery

ExperimentId	UUID format: uuid
Wavelengths	array[Double]
DisplayMode	DisplayMode

SignlePeakArea

Spectrum	SpectrumInfo
Wavelengths	array[Double]
DisplayMode	DisplayMode

RateQuery

ExperimentId	UUID format: uuid
MeasurementIds	array[UUID]
Time1	Double format: double
Time2	Double format: double

Method

Inherits: MethodBase

ApplicationId	UUID format: uuid
AccessorySettings	AccessorySettings
MeasurementSettings	MeasurementSettingsBase
CreatedTime	Date format: date-time
CreatedBy	String
ModifiedBy	String
CalibrationResult	CalibrationResult
DigitalSignatures	array[DigitalSignature]

MethodBase

Id	UUID format: uuid
ApplicationType	ApplicationType
MethodCreatedType	MethodCreatedType
IsSmartMethod	Boolean
Name	String
Description	String
IsCustomMethod	Boolean
IsValid	Boolean
ExtraInfo	map
DefaultParameters	map
LastModified	Date format: date-time
TimeOffset	String

AccessorySettings

AccessoryType — 0 None, 1 Peltier, 2 Sipper, 3 4-CellChanger, 4 8-CellChanger	Integer format: int32
AccessorySetting	String

MeasurementSettingsBase

MeasurementSettingsType	<i>MeasurementSettingsType</i>
DisplayMode	<i>DisplayMode</i>
CollectionModeName	<i>String</i>
SampleAveraging	<i>StandardAveraging</i>
SampleAverageCount	<i>Integer format: int32</i>
CorrectionFactor	<i>Double format: double</i>
Pathlength	<i>String</i>

BaselineSettingsBase

Inherits: MeasurementSettingsBase

Wavelengths	<i>array[Double]</i>
BaselineType	<i>BaselineType</i>
BaselineWavelength	<i>Double format: double</i>
BaselineWavelength2	<i>Double format: double</i>

FixedMeasurementSettings

Inherits: BaselineSettingsBase

DefaultEquation	<i>Equation</i>
F1	<i>Double format: double</i>
F2	<i>Double format: double</i>
EquationExpression	<i>String</i>

CalibrationResult

CalibratedParameters	<i>map</i>
IsCalibrated	<i>Boolean</i>
Standards	<i>array[StandardResultInfo]</i>
StandardCurveSpectrum	<i>SpectrumInfo</i>
R2Value	<i>Double format: double</i>
Equation	<i>String</i>
FailReason	<i>String</i>

StandardResultInfo

Id	<i>UUID format: uuid</i>
Index	<i>String</i>
Name	<i>String</i>
Concentration	<i>Double format: double</i>
IsUsed	<i>Boolean</i>
Results	<i>array[Double]</i>
AverageResult	<i>Double format: double</i>

SpectrumInfo

Title	<i>String</i>
YAxisTitle	<i>String</i>
XAxisTitle	<i>String</i>
XAxisStart	<i>Double format: double</i>
XAxisEnd	<i>Double format: double</i>
SmoothedPoints	<i>array[DataPoint]</i>
ReplicateSmoothedPoints	<i>IDictionary<string,</i>
IList<double>>	
XAxisType	<i>Integer format: int32</i>
YAxisType	<i>Integer format: int32</i>
ExtraInfo	<i>IDictionary<string, string></i>
Tag	<i>String</i>

DataPoint

X	<i>Double format: double</i>
Y	<i>Double format: double</i>

DigitalSignature

Id	<i>UUID format: uuid</i>
ParentId	<i>UUID format: uuid</i>
Type	<i>String</i>
Signer	<i>String</i>
SignedTime	<i>Date format: date-time</i>
TimeOffset	<i>String</i>
Reason	<i>String</i>
Signature	<i>array[byte]</i>
IsValid	<i>Boolean</i>

Tag

Id	<i>UUID format: uuid</i>
ParentId	<i>UUID format: uuid</i>
Name	<i>String</i>
Experiments	<i>array[Experiment]</i>
Measurements	<i>array[Measurement]</i>
Parent	<i>Tag</i>
Children	<i>array[Tag]</i>

Measurement

Id	<i>UUID format: uuid</i>
ExperimentId	<i>UUID format: uuid</i>
Type	<i>EnumMeasurementType</i>
BlankId	<i>UUID format: uuid</i>
SampleName	<i>String</i>
MeasuredTime	<i>Date format: date-time</i>
TimeOffset	<i>String</i>
SampleIndex	<i>String</i>
IsDiscarded	<i>Boolean</i>
IsUsed	<i>Boolean</i>
DataJson	<i>String</i>
ExtraJson	<i>String</i>

SchedulePVMMethod

MethodId	UUID format: uuid
IsScheduled	Boolean
ExpirationDays	Integer format: int32

Preference

IsEnabledScanNegativeABS	Boolean
IsReportingOutOfRangeValue	Boolean

PrintRequest

Id	UUID format: uuid
Files	array[String]
Base64Files	array[String]
FormFiles	array[IFormFile]
Copy	Integer format: int32
FitToPage	Boolean
MediaSize	String
Landscape	Boolean
PageRanges	String

QuantRequest

ExperimentId	UUID format: uuid
StandardIndex	array[String]
CurveType	CurveTypeEnum

LoadQuantMethodRequest

MethodId	UUID format: uuid
ExperimentId	UUID format: uuid
ApplicationType	ApplicationType
UserName	String

DeleteStandardRequest

ExperimentId	UUID format: uuid
StandardId	UUID format: uuid

Experiment

Inherits: ExperimentBase

MethodJson	String
ExtraJson	String
Measurements	array[Measurement]
Tags	array[Tag]
DigitalSignatures	array[DigitalSignature]

ExperimentBase

Id	UUID format: uuid
InstrumentModel	String
SerialNumber	String
FirmwareVersion	String
SoftwareVersion	String
Name	String
ApplicationType	ApplicationType
FirstMeasuredTime	Date format: date-time
LastMeasuredTime	Date format: date-time
StartTime	Date format: date-time
LastModified	Date format: date-time
TimeOffset	String
MeasurementCount	Integer format: int32
UserName	String

ExperimentQuery

Inherits: PagedListQuery

NameFilter	String
ApplicationFilter	ApplicationType

PagedListQuery

PageNumber	Integer format: int32
PageSize — max 100	Integer format: int32
StartTimeStamp — sets StartTime	Long format: int64
EndTimeStamp — sets EndTime	Long format: int64
StartTime	Date format: date-time
EndTime	Date format: date-time

UpdateExperimentMethodRequest

ExperimentId	UUID format: uuid
Method	Method

ExperimentExtra

Id	UUID format: uuid
Extra	String

NameTagsInfo

ExperimentId	UUID format: uuid
NewExperimentName	String
TagList	array[String]