Ohio Lottery Network Interface

# Introduction

This document describes the Ohio Lottery Network Interface, which contains commands specifically designed to provide continuity between data stored on Ohio Lottery and GLI servers.

The Ohio Lottery Network Interface allows the OHL server and GLI server to communicate bi-directionally in order to obtain data relating to retailers, VLTs, and components. The data can be compared to expected results and processed accordingly.

# Terminology

Within this document, the following definitions are used when referring to the OHL Server, GLI Server, OHL Client and GLI Client.

|  |  |
| --- | --- |
| OHL Server | The OHL Server is the system that exposes data about retailers, machines, and components that will be used by GLI to ensure that the most up to date information is used. |
| GLI Sever | The GLI Server is the system that exposes data about components and statuses that will be used by OHL. |
| OHL Client | The OHL Client represents the system that requests that the GLI Server return information about a particular component stored in GLI's database. |
| GLI Client | The GLI Client represents the system that requests that the OHL Server return information about retailers and machines stored in OHL's database. |

These relationships are illustrated in the following diagrams:



**Figure 1 – OHL Client/GLI Server Network Interface Overview**



**Figure 2 – GLI Client/OHL Server Network Interface Overview**

# Resources

## HTTP Verb Conventions

The following table lists the standard conventions followed in this document. These conventions may not apply to every scenario. Please consult the individual resources for the specific rules that apply.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Resource | POST  create | GET  read | PUT  update | DELETE  delete |
| /anyResource | Create a new item in the resource | Search the resource | Update multiple items | Delete multiple items |
| /anyResource/[ItemID] | Return Error – ItemID may only be assigned by the server | If exists, return ItemID; else, return Error | If exists, update ItemID; else, return Error | If exists, delete ItemID; else, return Error |

## OHL Server Supported HTTP Verbs

The following table lists the resources that MUST be exposed by the OHL Server, along with additional features and actions that can be performed on those resources. For additional information, please refer to the sections describing each individual resource that follow.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Resource** | **HTTP Verbs** | | | | **Additional Features** | **Actions** |
| POST  (create) | GET  (read) | PUT  (update) | DELETE  (delete) |
| /GLI/[ver]/GetRetailers | No | Yes | No | No | Search |  |
| /GLI/[ver]/GetVLT/[ID] | No | Yes | No | No |  |  |
| /GLI/[ver]/GetRetailerVlts/[ID] | No | Yes | No | No |  |  |

The [ver] segment of the resource MUST be replaced with the version number of the Ohio Lottery Network Interface. A dot-delimited format MUST be used for the version number. For example, version “1.0” must be represented as the character string “1.0”. Superfluous leading and trailing characters MUST be removed. For example, version “v1.0” must be represented as “1.0”. For version “1.0”, the appropriate resources are:

|  |
| --- |
| **Version “1.0” Resource** |
|
| /GLI/1.0/GetRetailers |
| /GLI/1.0/GetVLT/[ID] |
| /GLI/1.0/GetRetailerVlts/[ID] |

## Retailer Resources

A retailer is an establishment where VLTs are located and played. The OHL Server MUST expose retailers that belong to the Ohio Lottery jurisdiction. Resources within this section are used to report information for all retailers, or a specific retailer, that can be used by the GLI Client based upon specific search criteria.

### GET /GLI/[ver]/GetRetailers Resource

This resource returns an array of all retailers that belong to the Ohio Lottery jurisdiction.

#### Resource Information

|  |  |
| --- | --- |
| HTTP Method | GET |
| URI | /GLI/[ver]/GetRetailers |
| Request Headers | Accept:application/json |
| Response Content Type | application/json |
| Response Object | retailers. See section 3.3.1.4 Request Errors below for more detail about error scenarios. |

#### Request Parameters

There are no additional request parameters.

#### Response

**retailers Object**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Optional or Required** | **Description** |
| retailers | Array of retailer objects | Required | At least one retailer. |

**retailer Object**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Optional or Required** | **Description** |
| retailerId | String | Required | Contains the identifier of the retailer. |
| description | String | Required | Contains a description of the retailer. |
| email | String | Required | Contains an email address for the retailer. |
| contactName | String | Required | Contains a contact name for the retailer. |

#### Request Errors

|  |  |
| --- | --- |
| **HTTP Error Code** | **Description** |
| HTTP 404 | No resources found |

## VLT Resources

A VLT (Video Lottery Terminal) is a type of game that is connected to a central computer via a communications system. The OHL Server MUST expose VLT's that belong to retailers in the Ohio Lottery jurisdiction. Resources within this section are used to report information for a group of VLTs ,or a specific VLT, that can be used by the GLI Client based upon specific search criteria.

### GET /GLI/[ver]/GetVLT/[ID] Resource

This resource returns information about a single VLT. The VLT is specified in the [ID] segment of the resource.

#### Resource Information

|  |  |
| --- | --- |
| HTTP Method | GET |
| URI | /GLI/[ver]/GetVLT/**[ID]**, where [ID] is the identifier of the VLT |
| Request Headers | Accept:application/json |
| Response Content Type | application/json |
| Response Object | vlt. See section 3.4.1.4 Request Errors below for more detail about error scenarios. |

#### Request Parameters

There are no additional request parameters.

#### Response

**vlt Object**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Optional or Required** | **Description** |
| vltId | String | Required | The VLT identifier of the resource |
| alias | String | Required | The alias associated with the VLT |
| location | String | Required | The location of the VLT |
| retailerId | String | Required | The retailer identifier to which the VLT belongs |
| swSetAlias | String | Required | The alias of the software set that is on the VLT |
| manufacturer | String | Required | The manufacturer of the VLT |
| dateCommissioned | DateTime | Required | Date/time in which the VLT was commissioned. |

#### Request Errors

|  |  |
| --- | --- |
| **HTTP Error Code** | **Description** |
| HTTP 404 | Resource not found |

### GET /GLI/[ver]/GetRetailerVlts/[ID] Resource

This resource returns all VLT information for a single retailer. The retailer is specified in the [ID] segment of the resource.

#### Resource Information

|  |  |
| --- | --- |
| HTTP Method | GET |
| URI | /GLI/[ver]/GetRetailerVlts/**[ID]**, where [ID] is the identifier of the retailer |
| Request Headers | Accept:application/json |
| Response Content Type | application/json |
| Response Object | retailerVlts Object. See section 3.4.2.4 Request Errors below for more detail about error scenarios. |

#### Request Parameters

There are no additional request parameters.

#### Response

**retailerVlts Object**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Optional or Required** | **Description** |
| retailerId | String | Required | The retailer identifier of the resource |
| description | String | Required | Contains a description of the retailer. |
| email | String | Required | Contains an email address for the retailer. |
| contactName | String | Required | Contains a contact name for the retailer. |
| vlts | Array of vlt objects | Required | At least one vlt. |

#### Request Errors

|  |  |
| --- | --- |
| **HTTP Error Code** | **Description** |
| HTTP 404 | Resource not found |

## GLI Server Supported HTTP Verbs

The following table lists the resources that MUST be exposed by the GLI Server, along with additional features and actions that can be performed on those resources. For additional information, please refer to the sections describing each individual resource that follow.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Resource** | **HTTP Verbs** | | | | **Additional Features** | **Actions** |
| POST  (create) | GET  (read) | PUT  (update) | DELETE  (delete) |
| /OHL/[ver]/GetSWSetAlias/[ID] | No | Yes | No | No |  |  |

The [ver] segment of the resource MUST be replaced with the version number of the Ohio Lottery Network Interface. A dot-delimited format MUST be used for the version number. For example, version “1.0” must be represented as the character string “1.0”. Superfluous leading and trailing characters MUST be removed. For example, version “v1.0” must be represented as “1.0”. For version “1.0”, the appropriate resources are:

|  |
| --- |
| **Version “1.0” Resource** |
|
| /OHL/1.0/GetSWSetAlias/[ID] |

## Software Set Resources

A software set is collection of components that make up a VLT. The GLI Server MUST expose software sets that have been tested by GLI and uploaded to the Ohio Lottery FTP server. Resources within this section are used to report information for a specific software set that can be used by the OHL Client based upon specific search criteria.

### GET /OHL/[ver]/GetSWSetAlias/[ID] Resource

This resource returns information about a single software set. The software set is specified in the [ID] segment of the resource.

#### Resource Information

|  |  |
| --- | --- |
| HTTP Method | GET |
| URI | /OHL/[ver]/GetSWSetAlias/**[ID]**, where [ID] is the identifier (alias) of the software set |
| Request Headers | Accept:application/json |
| Response Content Type | application/json |
| Response Object | swSetInfo. See section 3.6.1.4 Request Errors below for more detail about error scenarios. |

#### Request Parameters

There are no additional request parameters.

#### Response

**swSetInfo Object**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Optional or Required** | **Description** |
| swSetAlias | String | Required | The software set identifier (alias) of the resource |
| manufacturer | String | Required | The manufacturer of the software set. |
| revokedComponents | Array of revokedComponent objects | Required | Contains an array of revoked components. |
| replaceWithComponents | Array of replacementComponent objects | Required | Contains an array of components to replace the revoked components. |

**revokedComponent Object**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Optional or Required** | **Description** |
| componentId | String | Required | The component identifier |
| manufacturer | String | Required | The manufacturer of the component. |
| version | String | Required | The version of the component |
| function | String | Required | The function of the component (i.e. Main PGM, PERSONALITY PGM, etc.) |
| status | String | Required | The status of the component (i.e. AP, NU, RV, etc.) |
| revokedDate | DateTime | Required | Contains the date that the component was revoked. |
| revokedStatus | String | Required | Contains the status of the revocation (i.e. mandatory, conditional, etc.). |
| replaceByDate | DateTime | Required | Contains the date the component must be replaced by, otherwise null |

**replacementComponent Object**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Optional or Required** | **Description** |
| componentId | String | Required | The component identifier |
| manufacturer | String | Required | The manufacturer of the component. |
| version | String | Required | The version of the component |
| function | String | Required | The function of the component (i.e. Main PGM, PERSONALITY PGM, etc.) |
| status | String | Required | The status of the component (i.e. AP, NU, RV, etc.) |

#### Request Errors

|  |  |
| --- | --- |
| **HTTP Error Code** | **Description** |
| HTTP 404 | Resource not found |

# Sample Messages

## GET /GLI/[ver]/GetRetailers

Request:

GET /GLI/[ver]/GetRetailers

Response:

"retailers": [{

"retailerId": "retailer\_123",

"description": "This is a retailer.",

"email": "contactEmail@retailer.com",

"contactName": "Mike Retailer"

}, {

"retailerId": "anotherRetailer",

"description": "This is another retailer.",

"email": "Bill@anotherRetailer.com",

"contactName": "Bill"

}, {

"retailerId": "retailer\_987",

"description": "Retailer 987.",

"email": "John987@retailer.com",

"contactName": "John Retailer"

}

]

## GET /GLI/[ver]/GetVLT/[ID]

Request:

GET /GLI/[ver]/GetVLT/123456

Response:

"vlt": {

"vltId": "123456",

"alias": "vltAlias for 123456",

"location": "bank 6, position 2",

"retailerId": "retailer\_123",

"swSetAlias": "567\_swsetalias\_345",

"manufacturer": "VLT Manufacturer",

"dateCommissioned": "20130710T23:59:59.999-05:00"

}

## GET /GLI/[ver]/GetRetailerVlts

Request:

GET /GLI/[ver]/GetRetailerVlts

Response:

"retailerVlts" : {

"retailerId" : "retailer\_123",

"description" : "This is a retailer.",

"email" : "contactEmail@retailer.com",

"contactName" : "Retailer Contact Name",

"vlts" : [{

"vltId" : "123456",

"alias" : "vltAlias for 123456",

"location" : "bank 1, position 1",

"retailerId" : "retailer\_123",

"swSetAlias" : "567\_swsetalias\_345",

"manufacturer" : "VLT Manufacturer",

"dateCommissioned" : "20130710T23:59:59.999-05:00"

}, {

"vltId" : "777777",

"alias" : "vltAlias for 777777",

"location" : "bank 1, position 2",

"retailerId" : "retailer\_123",

"swSetAlias" : "swSetAlias\_777",

"manufacturer" : "VLT Manufacturer 2",

"dateCommissioned" : "20130802T08:32:19.127-05:00"

}

]

}

## GET /OHL/[ver]/GetSWSetAlias/[ID] (No revoked components)

Request:

GET /OHL/[ver]/GetSWSetAlias/567\_swsetalias\_345

Response:

"swSetInfo": {

"swSetAlias": "567\_swsetalias\_345",

"manufacturer": "SWSet Manufacturer",

"revokedComponents" : [],

"replaceWithComponents" : []

}

## GET /OHL/[ver]/GetSWSetAlias/[ID] (With revoked components)

Request:

GET /OHL/[ver]/GetSWSetAlias/123\_swsetalias\_789

Response:

"swSetInfo": {

"swSetAlias": "123\_swsetalias\_789",

"manufacturer": "SWSet Manufacturer","revokedComponents" : [{

"componentId: "789",

"manufacturer: "SWSet Manufacturer",

"version: "1.0",

"function: "PERSONALITY PGM",

"status: "RV",

"revokedDate": "20130815T00:00:00.000-05:00",

"revokedStatus": "conditional",

"replaceByDate": "20140101T00:00:00.000-05:00"

}

],

"replaceWithComponents" : [{

"componentId: "789\_2",

"manufacturer: "SWSet Manufacturer",

"version: "2.0",

"function: "PERSONALITY PGM",

"status: "AP"

}

]

}