

OOF-HAS Interfaces

Interface Definition	Description
URI	{serverRoot}/oof/has/v2
Operation Type	POST
Content-Type	application/json

Request Header

Header Name	Qualifier	Description
Accept	N	Determines the format of the body of the response. Valid value is “application/json”
Authorization	Y	Supplies Basic Authentication credentials for the request. If the Authorization header is missing, then an HTTP 400 Invalid Request response is returned. If the string supplied is invalid, then an HTTP 401 Unauthorized response is returned.
Content-Type	Y	Determines the format of the request content. Only application/json is supported.
Content-Length	N	Number of bytes in the body of the request. Note that content length is limited to 1 MB.

Request Body

Attribute	Qualifier	Cardinality	Content	Values	Description
requestInfo	M	1	RequestInfo Object	•	The content of the RequestInfo object.
placementInfo	M	1	PlacementInfo Object	•	The Content of the PlacementInfo object.
licenseInfo	M	1	LicenseInfo Object	•	The Content of the LicenseInfo object.
serviceInfo	M	1	ServiceInfo Object	•	The Content of the ServiceInfo object.

RequestInfo Object:

Attribute	Qualifier	Cardinality	Content	Values	Description
transactionId	M	1	UUID/String	•	A unique ID to track an ONAP transaction.
requestId	M	1	UUID/String	•	A unique ID to track multiple requests associated with a transaction.
callbackUrl	M	1	URL	•	The end point of a callback service where recommendations are posted.
sourceId	M	1	String	•	The unique ID of a client making an optimization call.
requestType	M	1	String	create, update, delete	The type of a request

Attribute	Qualifier	Cardinality	Content	Values	Description
numSolutions	O	1	Integer	•	Expected number of solutions.
optimizers	M	1..N	List of Strings	placement	A list of optimization services.
timeout	M	1	Integer	•	A tolerance window (in min) for expecting solutions.

PlacementInfo Object:

Attribute -	Qualifier	Cardinality	Content	Values	Description
requestParameters	M	1	JSON BLOB	•	A service ordering information.
placementDemands	M	1..N	List of PlacementDemand Object	•	The resource information for a placement service.

PlacementDemand Object:

Attribute -	Qualifier	Cardinality	Content	Values	Description
resourceModuleName	M	1	String	•	A resource name as defined in a service model.
serviceResourceId	M	1	String	•	A unique resource Id with a local scope between client and OOF.
tenantId	O	1	String	•	A tenant Id as defined in the ordering system.
resourceModelInfo	M	1	ModelMetaData Object	•	Resource model information as defined in SDC.
existingCandidates	O	1	Candidates Object	•	The existing placement information of a resource.
excludedCandidates	O	1	Candidates Object	•	Candidates that need to be excluded from solutions.
requiredCandidates	O	1	Candidates Object	•	Candidates that must be included in solutions.

ModelMetaData Object:

Attribute -	Qualifier	Cardinality	Content	Values	Description
modelInvariantId	M	1	String	•	A model invariant Id as defined in a service model.
modelVersionId	M	1	String	•	A unique model Id as defined in a service model.
modelName	O	1	String	•	A model name as defined in a service model.
modelType	O	1	String	•	A model type as defined in a service model.
modelVersion	O	1	String	•	A model version as defined in a service model.
modelCustomizationName	O	1	String	•	A model customization name as defined in a service model.

Candidates Object:

Attribute	Qualifier	Cardinality	Content	Values	Description
identifierType	M	1	String	service_instance_id, vnf_name, cloud_region_id	The type of a candidate.
identifiers	M	1..N	List of Strings	•	A list of identifiers.

ServiceInfo Object:

Attribute	Qualifier	Cardinality	Content	Values	Description
serviceInstanceId	M	1	String	•	A service instance id associated with a request.
serviceModelInfo	M	1	ModelMetaData Object	•	A list of identifiers.

LicenseInfo Object:

Attribute -	Qualifier	Cardinality	Content	Values	Description
licenseDemands	M	1	List of LicenseDemands Object	•	A list of resources for license selection.

LicenseDemands Object:

Attribute -	Qualifier	Cardinality	Content	Values	Description
resourceModuleName	M	1	String	•	A resource name as defined in a service model.
serviceResourceId	M	1	String	•	A unique resource Id with a local scope between client and OOF.
resourceModelInfo	M	1	ModelMetaData Object	•	Resource model information as defined in a service model.
existingLicenses	O	1	LicenseModel Object	•	Existing license information assigned to a resource.

LicenseModel Object:

Attribute -	Qualifier	Cardinality	Content	Values	Description
entitlementPoolUUID	M	1..N	List of Strings	•	Entitlement pool UUIDs associated with a resource.
licenseKeyGroupUUID	M	1..N	List of Strings	•	License key groups associated with a resource

Synchronous Response Body:

Attribute -	Qualifier	Cardinality	Content	Values	Description
requestId	M	1	UUID/String	•	A unique Id for an ONAP transaction.
transactionId	M	1	UUID/String	•	A unique ID to track multiple requests associated with a transaction.
statusMessage	O	1	String	•	Reasoning if a requestStatus is failure.
requestStatus	M	1	String	success, failure	The status of a request.

Asynchronous Response Body:

Attribute -	Qualifier	Cardinality	Content	Values	Description
requestId	M	1	UUID/String	•	A unique Id for an ONAP transaction.
transactionId	M	1	UUID/String	•	A unique ID to track multiple requests associated with a transaction.
statusMessage	O	1	String	•	Reasoning if requestStatus is failure.
requestStatus	M	1	String	success, failure, pending	The status of a request.
solutions	M	1	Solution Object	•	Solutions related to a request.

Solutions Object:

Attribute -	Qualifier	Cardinality	Content	Values	Description
placementSolutions	M	1..N	List of ComprehensiveSolution Object	•	A list of placement solutions.
licenseSolutions	M	1	List of LicenseSolution Object	•	A list of license solutions

ComprehensiveSolution Object:

Attribute	Qualifier	Cardinality	Content	Values	Description
•	M	1..N	List of PlacementSolution Object	•	A list of placement solutions.

PlacementSolution Object:

Attribute -	Qualifier	Cardinality	Content	Values -	Description
resourceModuleName	M	1	String	•	The name of a resource as defined in the service model.
serviceResourceId	M	1	String	•	A resource Id as defined in a service model.
identifierType	M	1	String	service_instance_id, cloud_region_id	The type of a candidate.
identifier	M	1	String	•	The id of a candidate.
assignmentInfo	O	1..N	List of Assign- mentInfo object	•	Additional information related to a candidate.

AssignmentInfo Object:

Attribute	Qualifier	Cardinality	Content	Values	Description
key	M	1	String	•	An attribute name.
value	M	1	String	•	An attribute value.

LicenseSolutions Object:

Attribute -	Qualifier	Cardinality	Content	Values	Description
resourceModuleName	M	1	String	•	A resource name as defined in a service.
serviceResourceId	M	1	String	•	A resource Id as defined in a service.
entitlementPoolUUID	M	1..N	List of String	•	A list of entitlementPoolUUIDs.
licenseKeyGroupUUID	M	1..N	List of String	•	A list of licenseKeyGroupUUID.
entitlementPoolInvariantUUID	M	1..N	List of String	•	A list of entitlementPoolInvariantUUID .
licenseKeyGroupInvariantUUID	M	1..N	List of String	•	A list of licenseKeyGroupInvariantUUID .

HTTP Response Code

HTTP Code	Response Phrase	Description
201	Created	An optimization solution is found.
202	Accepted	An optimization request is accepted.
400	Bad request	Bad request.
401	Unauthorized	Request body is not compliant with the API definition.
404	Not found	The server cannot find the requested URI.
405	Method not found	The requested method is not supported by a server.
500	Internal server error	The server encountered an internal server error or timed out.