UUI-SO API Specification

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# Document brief introduction

## Purpose

By this document, developer and tester can clearly understand UUI-SO APIs, know how it contacts with other components and what functions it provides, and so on.

## Scope

1. Create E2E service instance.
2. Delete E2E service instance.
3. Query E2E service operation status

# API specification

## Server Root

REST resources are defined with respect to a serverRoot:

serverRoot = https://{FQDN}:{Port}/ecomp/mso/infra/{resourcePath}

For HTTPS, port = 8443, for HTTP (only in dev), port = 8080

## Create E2E service instance

### Restful interface

|  |  |
| --- | --- |
| Operation type | URI |
| post | {serverRoot}/e2eServiceInstances/v3 |

**Request body:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| name | remark | | | | | |
| service | Content of service object. | | | | | |
| name | Service instance name. | | | | | |
| description | Service instance description | | | | | |
| serviceDefId | The service invariantUUID. It is defined in SDC. | | | | | |
| templateId | The service Template UUID. It is defined in SDC. | | | | | |
| parameters | globalSubscriberId | The subscriber id. It is defined in AAI | | | | |
| subscriberName | The subscriber name. It is defined in AAI | | | | |
| serviceType | The service type. It is defined in AAI | | | | |
| templateName | The service Template name | | | | |
| resources[] | This field manages parameters of resources, It is a List | | | | |
| resourceName | The resource name | | | |
| resouceDefId | The resource invariantUUID. It is defined in SDC. | | | |
| resourceId | The resource UUID. It is defined in SDC. | | | |
| nsParameters | Parameters for current resource object. | | | |
| locationConstraints | The DC location info for each VNF of current service | | |
| vnfProfileId | VNFD id | |
| locationConstraints | DC location info of VNF | |
| vimId | The VIM id |
| additionalParamForNs | The parameter for current resource | | |

**Demo:**

{

    "service":{

        "name":"so\_test4",

        "description":"so\_test2",

        "serviceDefId":"60c3e96e-0970-4871-b6e0-3b6de7561519",

        "templateId":"592f9437-a9c0-4303-b9f6-c445bb7e9814",

        "parameters":{

            "globalSubscriberId":"123457",

            "subscriberName":"Customer1",

            "serviceType":"voLTE",

            "templateName":"voLTE Service:1.0",

            "resources":[

                {

                    "resourceName":"vIMS",

                    "resourceDefId":"60c3e96e-0970-4871-b6e0-3b6de7561516",

                    "resourceId":"60c3e96e-0970-4871-b6e0-3b6de7561512",

                    "nsParameters":{

                        "locationConstraints":[

                            {

                                "vnfProfileId":"zte-vBAS-1.0",

                                "locationConstraints":{

                                    "vimId":"4050083f-465f-4838-af1e-47a545222ad0"

                                }

                            },

                            {

                                "vnfProfileId":"zte-vMME-1.0",

                                "locationConstraints":{

                                    "vimId":"4050083f-465f-4838-af1e-47a545222ad0"

                                }

                            }

                        ],

                        "additionalParamForNs":{

                        }

                    }

                },

                {

                    "resourceName":"vEPC",

                    "resourceDefId":"61c3e96e-0970-4871-b6e0-3b6de7561516",

                    "resourceId":"62c3e96e-0970-4871-b6e0-3b6de7561512",

                    "nsParameters":{

                        "locationConstraints":[

                            {

                                "vnfProfileId":"zte-CSCF-1.0",

                                "locationConstraints":{

                                    "vimId":"4050083f-465f-4838-af1e-47a545222ad1"

                                }

                            }

                        ],

                        "additionalParamForNs":{

                        }

                    }

                },

                {

                    "resourceName":"underlayvpn",

                    "resourceDefId":"60c3e96e-0970-4871-b6e0-3b6de7561513",

                    "resourceId":"60c3e96e-0970-4871-b6e0-3b6de7561514",

                    "nsParameters":{

                        "locationConstraints":[

                        ],

                        "additionalParamForNs":{

                            "externalDataNetworkName":"Flow\_out\_net",

                            "m6000\_mng\_ip":"181.18.20.2",

                            "externalCompanyFtpDataNetworkName":"Flow\_out\_net",

                            "externalPluginManageNetworkName":"plugin\_net\_2014",

                            "externalManageNetworkName":"mng\_net\_2017",

                            "sfc\_data\_network":"sfc\_data\_net\_2016",

                            "NatIpRange":"210.1.1.10-210.1.1.20",

                            "location":"4050083f-465f-4838-af1e-47a545222ad0",

                            "sdncontroller":"9b9f02c0-298b-458a-bc9c-be3692e4f35e"

                        }

                    }

                },

                {

                    "resourceName":"overlayvpn",

                    "resourceDefId":"60c3e96e-0970-4871-b6e0-3b6de7561517",

                    "resourceId":"60c3e96e-0970-4871-b6e0-3b6de7561518",

                    "nsParameters":{

                        "locationConstraints":[

                        ],

                        "additionalParamForNs":{

                            "externalDataNetworkName":"Flow\_out\_net",

                            "m6000\_mng\_ip":"181.18.20.2",

                            "externalCompanyFtpDataNetworkName":"Flow\_out\_net",

                            "externalPluginManageNetworkName":"plugin\_net\_2014",

                            "externalManageNetworkName":"mng\_net\_2017",

                            "sfc\_data\_network":"sfc\_data\_net\_2016",

                            "NatIpRange":"210.1.1.10-210.1.1.20",

                            "location":"4050083f-465f-4838-af1e-47a545222ad0",

                            "sdncontroller":"9b9f02c0-298b-458a-bc9c-be3692e4f35e"

                        }

                    }

                }

            ]

        }

    }

}

**Response body：**

|  |  |  |
| --- | --- | --- |
| name | remark | |
| service | Identify that defines service. | |
| serviceId | Service instance ID. |
| operationId | Service Operation ID. |

**Demo:**

{

"service": {

"serviceId": "e151059a-d924-4629-845f-264db19e50b4",

"operationId": "e151059a-d924-4629-845f-264db19e50b3"

}

}

## Delete E2E service instance

### Restful interface

|  |  |  |
| --- | --- | --- |
| Operation type | URI | parameter |
| delete | {serverRoot}/e2eServiceInstances/v3/{serviceId} | serviced: E2E service instance ID |

**Request body**:

|  |  |
| --- | --- |
| name | remark |
| globalSubscriberId | The subscriber id. It is defined in AAI |
| serviceType | The service type. It is defined in AAI |

**Demo:**

{

"globalSubscriberId ": "e151059a-d924-4629-845f-264db19e50b4",

"serviceType ": "voLTE"

}

**Response body**：

|  |  |
| --- | --- |
| name | remark |
| operationId | The operation id. |

{

"operationId": "e151059a-d924-4629-845f-264db19e50b3"

}

## Query E2E service operation result

### Restful interface

|  |  |  |
| --- | --- | --- |
| Operation type | URI | parameter |
| get | {serverRoot}/e2eServiceInstances/v3/{serviceId}/operations/{operationId} | serviced: E2E service instance ID  operationId: operation ID |

**Request body**: none.

**Response body**：

{

"operation": {

"operationId": "XXXXXX",

"operation": "create|delete",

"result": "finished|error|processing",

"reason": "",

"userId": "",

"operationContent": "Be creating pop.",

"progress": 88,

"operateAt": "",

"finishedAt": ""

}

}

**Response parameters**：

|  |  |
| --- | --- |
| name | remark |
| operation | Operation object identify. |
| operationId | Operation ID. |
| operation | Operation type, create|delete. |
| result | Operation result: finished, error, processing. |
| reason | If failing, need to write fail reason. |
| userId | Operation user ID. |
| operationContent | The status detail of current operation which is being executing. |
| progress | Current operation progress. |
| operateAt | Time that it starts to execute operation. |
| finishedAt | Time that it finished executing operation. |