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| TOSCA template for e2e-service |
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# TOSCA template for e2e-service

## Data Types

### gso.datatypes.service.basicInfo

Describe the basic information for the service

#### Properties

| Name | Required | Type | Constraints | Description |
| --- | --- | --- | --- | --- |
| createTime | No | string |  | The creation time of the service |
| updateTime | No | string |  | The update time of the service |
| creatorId | No | string |  | The identification of the creator |
| location | No | string |  | Location of the single domain |

#### Definition

|  |
| --- |
| # \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  # data types  # \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  data\_types:  gso.datatypes.service.basicInfo:  derived\_from: tosca.datatypes.Root  properties:  createTime:  type: string  description: create time  updateTime:  type: string  description: update time  creatorId:  type: string  description: ID of the creator  location:  type: string  description: Location of the single domain |

## Interface Types

### gso.interfaces.lifecycle.Standard

There is the lifecycle standard interface of the service.

#### Properties

#### Definition

|  |
| --- |
| # \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  # interface\_types  # \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  interface\_types:  gso.interfaces.lifecycle.Standard:  derived\_from: tosca.interfaces.Root  create:  description: Standard lifecycle create operation.  update:  description: Standard lifecycle configure and update operation.  instantiate:  description: Standard lifecycle instantiate operation.  terminate:  description: Standard lifecycle terminate operation.  delete:  description: Standard lifecycle delete operation.  query:  description: Standard lifecycle query operation.  scalingIn:  description: Standard lifecycle scalingIn operation.  scalingOut:  description: Standard lifecycle query operation. |

## Capability Types

### gso.capability.SingleDomainNs

There is the depended capability of single domain network service.

#### Properties

#### Definition

|  |
| --- |
| capability\_types:  gso.capability.SingleDomainNs:  derived\_from: tosca.capabilities.Root |

## Relationship Types

### gso.relationship.DependOn

There is the relationship of single domain network service and global network service.

#### Properties

#### Definition

|  |
| --- |
| # \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  # relationship types  # \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  relationship\_types:  gso.relationship.DependOn:  derived\_from: tosca.relationships.Root  description:  valid\_target\_types: [gso.capability.SingleDomainNs] |

## Node Types

### gso.node.Root

Root is the super class of all the gs-o network service.

#### Properties

| Name | Required | Type | Constraints | Description |
| --- | --- | --- | --- | --- |
| Id | Yes | string |  | The identification of the service |
| name | Yes | string |  | The name of the service |
| description | No | string |  | The description of the service |

#### Definition

|  |
| --- |
| # \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  # node types  # \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  node\_types:  gso.node.Root:  derived\_from: tosca.nodes.Root  description: gso root type  properties:  id:  type: string  name:  type: string  description:  type: string  required: false |

### gso.node.NetworkService

Describe the information for the network service

#### Properties

| Name | Required | Type | Constraints | Description |
| --- | --- | --- | --- | --- |
| baseServiceInfo | Yes | gso.datatypes.service.basicInfo |  | The basic information of the service |
| templateId | Yes | string |  | The template id of the service |
| serviceDefId | Yes | string |  | The csar package id of the service |

#### Definition

|  |
| --- |
| gso.node.NetworkService:  derived\_from: gso.node.Root  description: basic network service  properties:  baseServiceInfo:  type: gso.datatypes.service.basicInfo  templateId:  type: string  serviceDefId:  type: string  interfaces:  standard:  type: gso.interfaces.lifecycle.Standard |

### gso.node.SingleDomainNetworkService

Describe the information for the single domain network service

#### Properties

#### Definition

|  |
| --- |
| gso.node.SingleDomainNetworkService:  derived\_from: gso.node.NetworkService  description: single domain network service |

### gso.node.CrossDomainNetworkService

Describe the basic information for cross domain network service

#### Properties

#### Definition

|  |
| --- |
| gso.node.CrossDomainNetworkService:  derived\_from: gso.node.NetworkService  description: cross domain network service  requirements:  - realizes:  node: gso.node.SingleDomainNetworkService  capability: gso.capability.SingleDomainNs  relationship: gso.relationship.DependOn  occurrences: [2, UNBOUNDED] |