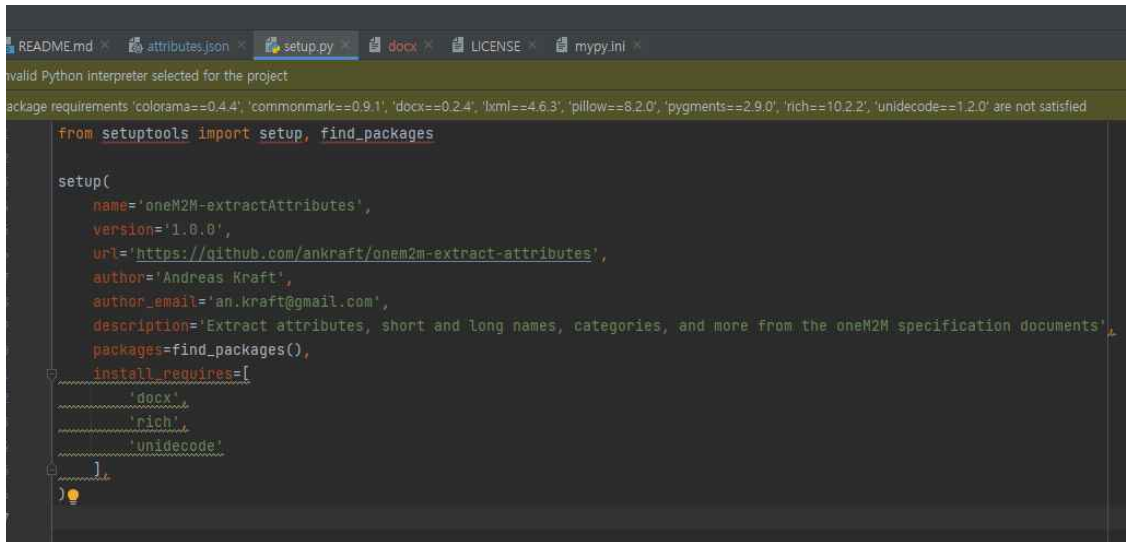


1. setup.py 에 대하여

- 파이썬에서 사용 가능한 다양한 패키지를 설치하는데 사용된다.
- 파이썬에 수동으로 패키지를 설치해야하는 경우 주로 사용한다.



```
from setuptools import setup, find_packages

setup(
    name='oneM2M-extractAttributes',
    version='1.0.0',
    url='https://github.com/ankraft/onem2m-extract-attributes',
    author='Andreas Kraft',
    author_email='an.kraft@gmail.com',
    description='Extract attributes, short and long names, categories, and more from the oneM2M specification documents',
    packages=find_packages(),
    install_requires=[
        'docx',
        'rich',
        'unidecode'
    ],
)
```

```
from setuptools import setup, find_packages

setup(
    name='oneM2M-extractAttributes',
    version='1.0.0',
    url='https://github.com/ankraft/onem2m-extract-attributes',
    author='Andreas Kraft',
    author_email='an.kraft@gmail.com',
    description='Extract attributes, short and long names, categories, and more from the oneM2M specification documents',
    packages=find_packages(),
    install_requires=[
        'docx',
        'rich',
        'unidecode'
    ],
)
```

from setuptools import setup, find_packages

* 파이썬 문법 from 파일명(라이브러리) import 함수이름

>>from은 import에서 사용했던 calendar.함수명() 이름에서 앞에 부분인 파일명을 없애고 함수명만 사용해서 간단하게 쓰기위해 사용한다.

>>import는 이미 만들어진 파이썬 프로그램 파일, 라이브러리안에 있는 파일등을 사용할 수 있게 해주는 명령어.

*from setuptools *import setup, find_packages는 결국 setuptools파일을 setup 함수명으로 사용하겠다는 것이다.

-setuptools파일에 있는 기능들 name, version, url, author, author_email, description,

의 기능들에 해당하는 정보를 대입한다.

-대부분 `setuptools.find_packages` 함수를 사용하여 자동으로 포함될 package들을 찾게 하고 대신에 제외되어야 할 package들을 `exclude` 인자를 통해 설정한다.

-`packages=find_packages()`하여 패키지를 찾고 `install_requires`(=모듈 의존성 관리)를 통해서 `docx`, `rich`, `unidecode` (`docx`만인식한다는 말 예전 `doc`는 인식은 안함, `rich` 라이브러리 파이썬 텍스트 하는 친구, `unidecode` 유니코드)

라는 말이다.

=<https://github.com/ankraft/oneM2m-extract-attributes>에서 `oneM2M-extractAttributes` 이름인 애를 1.0.0버전으로 설치 한다.
`attributes` 툴은 oneM2M 사양 문서에서 속성, 짧은 이름 및 긴 이름, 범주 등을 추출한다는 설명과 인식모듈은 `docx`, `rich`, `unidecode`로 관리하도록 해놓았다.

2. Readme.md에 대해

(md란 마크 다운 언어 방언을 통해 마크 다운 문서 파일로 사용되는 텍스트 파일을 말함.)

- Install

python-docx 모듈을 설치해야 합니다

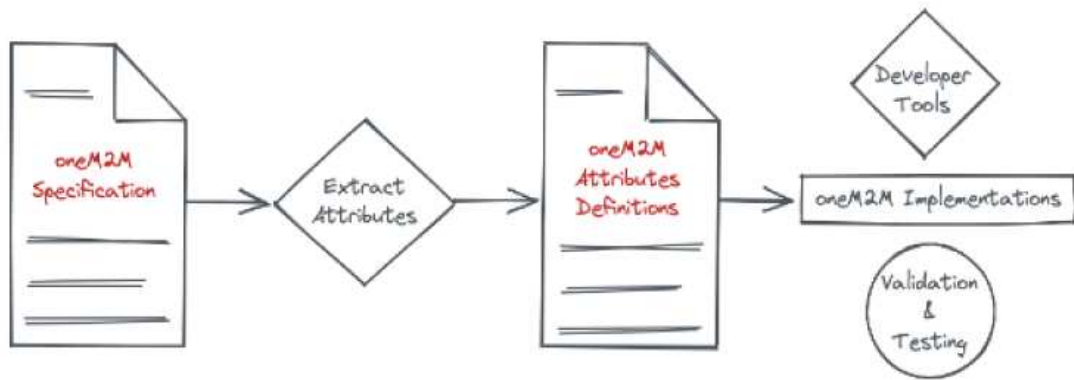
-> `pip install python-docx`

`python-docx`가 아닌 `docx`를 설치할 경우 오류 발생

- Extract Attributes Tool의 기능

oneM2M의 문서에서 속성, 범주 등을 추출합니다.

- Installation



이 스크립트를 실행하기 위해서 Python 3.8 이상이 필요하다.
pyenv와 같은 가상환경 사용을 추천한다.

pyenv가하는 일 ...

사용자별로전역 Python 버전을 변경할수 있습니다.

프로젝트별 Python 버전에 대한 지원을 제공합니다.

Python 버전을환경으로 재정의할 수 있습니다. 변수.

한 번에 여러 버전의 Python에서 명령을 검색합니다. 이것은tox를 사용하여 Python 버전에서 테스트하는 데 도움이 될 수 있습니다.

다음 명령어를 사용하여 추가로 필요한 Python 모듈을 설치한다.

```
python3 -m pip install -r requirements.txt
```

- Running

Preparing the input documents

이 스크립트는 docx 형식의 문서를 받아들인다. 필요한 경우, 기존 문서를 “docx” 문서로 열고 저장하여 형식을 변환해야 한다.

Word의 “doc” 형식과 같은 이전 형식은 지원되지 않는다.

다음 명령을 사용하여 ‘TS-0022-Field_Device_Configuration-V4_2_0.docx’ 문서를 입력으로 읽고 기본 출력 디렉토리에서 속성 정의가 있는 ‘attributes.json’(default) 파일을 생성한다.

```
python3 src/extractAttributes.py TS-0022-Field_Device_Configuration-V4_2_0.docx
```

다음 명령을 사용하여 동일한 디렉토리에 있는 모든 ‘.docx’ 문서를 읽고 처리한 후 ‘attribute.json’ 파일을 생성할 수 있다.

```
python3 src/extractAttributes.py *.docx -o out
```

다음 명령어는 이전 예시와 유사하지만, 각 입력 문서마다 하나씩 CSV 파일을 생성한다.

```
-> python3 src/extractAttributes.py *.docx --csv -o out
```

다음 명령어를 사용하여 속성의 JSON 파일 외에도 화면에 결과를 나열할 수 있다. 중복 정의는 빨간색으로 표시된다.

```
-> python3 src/extractAttributes.py *.docx --list
```

중복 여부만 확인하려는 경우에는 출력된 내용이 너무 많을 수 있다. 따라서 다음 명령을 사용하여 화면에 중복 정의만 나열할 수 있다. 여기에는 여러번 정의된 속성뿐만 아니라 여러 개의 짧은 이름이 정의된 속성도 별도의 테이블에 나열된다.

```
-> python3 src/extractAttributes.py *.docx --list-duplicates
```

명령어는 출력 디렉토리에 CSV 파일인 'duplicates.csv' 파일 및 'duplicates_shortnames.csv' 를 생성하는 것을 제외하고 이전 명령과 유사하다.

```
-> python3 src/extractAttributes.py *.docx --list-duplicates --csv
```

-oneM2M의 specification documents에서 속성, 짧은 이름 및 긴 이름, 범주 등을 추출한다.

-이 스크립트는 oneM2M specification documents를 가져와서 short name 정의 테이블을 검색한다. 이후 속성, short name, 범주 및 기타정보를 포함하는 JSON 구조를 생성한다.

-쉽게 맵핑 할 수 있도록 CSV(Comma Separated Values) 파일을 option 기능으로 생성할 수 있으며 중복 특성 정의에 대한 보고서를 생성할 수 있다.

-생성된 output은 API 문서를 지원하거나 응용프로그램에서 속성 맵핑을 자동으로 생성하는 부분에 사용될 수 있다.

-attributes.json에서 자주 보이는 문서는 TS-0004d인데 서비스계층핵심프로토콜 이라고 쓰여있다.

3. attributes.json에 대하여

```
[ {  
  "shortname": "op", //짧은 이름 : op  
  "attribute": "operation", //속성 : 사업  
  "occursIn": // 'occurs in' entry(입력값)들을 나누고 공백을 없앤다. [  
    "Request", -> 이게 입력값 들  
    "authorizationDecision", -> 이게 입력값 들  
    "dynAuthDasRequest", -> 이게 입력값 들  
    "operationMonitor", -> 이게 입력값 들  
    "request" -> 이게 입력값 들  
  ],  
}
```

```

    "categories": [ //카테고리
        "Complex Data Types",
        "Primitive Parameters" (기본 매개변수),
        "Resource Attributes"
    ],
    "documents": [ //문서
        "ts-0004.docx"
    ]
},

```

-----여기까지만 본다면

"shortname" => 속성 정의를 내리는 짧은 말
 "attribute" => 속성 그 자체 이름
 "occursIn" => 해당 속성에는 무슨 입력 값들이 있는지
 "categories" => 해당 속성은 어떤 형태의 엔트리(입력값?)을 가지는지
 "documents" => tool에 넣을 문서파일
 5가지의 단어가 중복되는 것을 볼 수 있다.

■((Primitive Parameters예시))

자바스크립트에는 4가지 Primitive Data Types가 있다.

1. String: 텍스트 값. 따옴표로 지정되는 데이터
-> 예) var car_name = "기아";
2. Number: 숫자 값.
-> 예) var car_year = 2017;
3. Boolean: True(참) 혹은 False(거짓) 값.
-> 예) var new_car = true;
4. undefined: 아무 값이 지정 안 된다.

■((Complex Data Types 예시))

Primitive Data Types에 포함되지 않은 오브젝트(Object) 타입과 함수(Function) 타입의 두 가지가 있다.

-> object = { name: 'NAME', age: 29 }; 뭐 이렇게 타입을 마음대로 할당 가능하다.
 -> Function함수 기능은 안에 뭐 기능 넣어서 불러오기 이름() 이렇게 쓰이는 것

■((Resource Attributes 예시)) = 직역: 자원 속성

->선택자.setAttribute(속성명, 속성값) 뭐 이런 구조로 들어가 있는 정보

```

{
  "shortname": "to",
  "attribute": "to",
  "occursIn": [
    "Request",
    "Response",
  ]
}

```

```

        "authorizationDecision",
        "authorizationPolicy"
    ],
    "categories": [
        "Primitive Parameters",
        "Resource Attributes"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "fr",
    "attribute": "from",
    "occursIn": [
        "Request",
        "Response",
        "authorizationDecision",
        "authorizationInformation"
    ],
    "categories": [
        "Primitive Parameters",
        "Resource Attributes"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "rqi",
    "attribute": "requestIdentifier",
    "occursIn": [
        "Request",
        "Response"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
}

```

```

},
{
  "shortname": "ty",
  "attribute": "resourceType",
  "occursIn": [
    "All",
    "Request",
    "accessControlObjectDetails",
    "filterCriteria"
  ],
  "categories": [
    "Complex Data Types",
    "Primitive Parameters",
    "Resource Attributes"
  ],
  "documents": [
    "ts-0004.docx"
  ]
},
{
  "shortname": "pc",
  "attribute": "primitiveContent",
  "occursIn": [
    "Request",
    "Response",
    "request"
  ],
  "categories": [
    "Primitive Parameters",
    "Resource Attributes"
  ],
  "documents": [
    "ts-0004.docx"
  ]
},
{
  "shortname": "rids",
  "attribute": "roleIDs",
  "occursIn": [
    "Request",
    "authorizationDecision",

```

```

        "authorizationInformation",
        "tokenPermission"
    ],
    "categories": [
        "Complex Data Types",
        "Primitive Parameters",
        "Resource Attributes"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "ot",
    "attribute": "originatingTimestamp",
    "occursIn": [
        "Request",
        "Response"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "rqet",
    "attribute": "requestExpirationTimestamp",
    "occursIn": [
        "Request"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "rset",

```



```

    "attribute": "resultExpirationTimestamp",
    "occursIn": [
        "Request",
        "Response"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "oet",
    "attribute": "operationExecutionTime",
    "occursIn": [
        "Request"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "rt",
    "attribute": "responseType",
    "occursIn": [
        "Request"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "rp",
    "attribute": "resultPersistence",

```

```

    "occursIn": [
        "Request"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "rcn",
    "attribute": "resultContent",
    "occursIn": [
        "Request"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "ec",
    "attribute": "eventCategory",
    "occursIn": [
        "Request",
        "Response",
        "delivery"
    ],
    "categories": [
        "Primitive Parameters",
        "Resource Attributes"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "da",

```

```

    "attribute": "deliveryAggregation",
    "occursIn": [
        "Request"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "gid",
    "attribute": "groupRequestIdentifier",
    "occursIn": [
        "Request"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "fc",
    "attribute": "filterCriteria",
    "occursIn": [
        "IPEDiscoveryRequest",
        "Request"
    ],
    "categories": [
        "Complex Data Types",
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "drt",

```

```

    "attribute": "desiredIdentifierResultType",
    "occursIn": [
        "Request"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "rsc",
    "attribute": "responseStatusCode",
    "occursIn": [
        "Response"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "tkns",
    "attribute": "tokens",
    "occursIn": [
        "Request",
        "authorizationDecision",
        "dynAuthDasResponse"
    ],
    "categories": [
        "Complex Data Types",
        "Primitive Parameters",
        "Resource Attributes"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},

```

```

{
  "shortname": "tids",
  "attribute": "tokenIDs",
  "occursIn": [
    "Request",
    "authorizationDecision",
    "authorizationInformation",
    "dynAuthDasRequest"
  ],
  "categories": [
    "Complex Data Types",
    "Primitive Parameters",
    "Resource Attributes"
  ],
  "documents": [
    "ts-0004.docx"
  ]
},
{
  "shortname": "tqi",
  "attribute": "tokenRequestIndicator",
  "occursIn": [
    "Request"
  ],
  "categories": [
    "Primitive Parameters"
  ],
  "documents": [
    "ts-0004.docx"
  ]
},
{
  "shortname": "ltids",
  "attribute": "localTokenIDs",
  "occursIn": [
    "Request"
  ],
  "categories": [
    "Primitive Parameters"
  ],
  "documents": [

```

```

        "ts-0004.docx"
    ]
},
{
    "shortname": "grtm",
    "attribute": "groupRequestTargetMembers",
    "occursIn": [
        "Request"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "ati",
    "attribute": "assignedTokenIdentifiers",
    "occursIn": [
        "Response"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "tqf",
    "attribute": "tokenRequestInformation",
    "occursIn": [
        "Response"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
}

```

```

},
{
  "shortname": "cnst",
  "attribute": "contentStatus",
  "occursIn": [
    "Response"
  ],
  "categories": [
    "Primitive Parameters"
  ],
  "documents": [
    "ts-0004.docx"
  ]
},
{
  "shortname": "cnot",
  "attribute": "contentOffset",
  "occursIn": [
    "Response"
  ],
  "categories": [
    "Primitive Parameters"
  ],
  "documents": [
    "ts-0004.docx"
  ]
},
{
  "shortname": "asi",
  "attribute": "authorSignIndicator",
  "occursIn": [
    "Request"
  ],
  "categories": [
    "Primitive Parameters"
  ],
  "documents": [
    "ts-0004.docx"
  ]
},
{

```

```

    "shortname": "asri",
    "attribute": "authorSignReqInfo",
    "occursIn": [
        "Response"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "aus",
    "attribute": "authorSigns",
    "occursIn": [
        "Request"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "auri",
    "attribute": "authorRelIndicator",
    "occursIn": [
        "Request"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "sqi",
    "attribute": "semanticQueryIndicator",

```



```

    "occursIn": [
        "Request"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "rvi",
    "attribute": "releaseVersionIndicator",
    "occursIn": [
        "Request",
        "Response"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "vsi",
    "attribute": "vendorInformation",
    "occursIn": [
        "Request",
        "Response"
    ],
    "categories": [
        "Primitive Parameters"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "rqp",
    "attribute": "m2m:requestPrimitive",

```

```

    "occursIn": [
        "Request",
        "transaction"
    ],
    "categories": [
        "Primitive Root Elements"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "rsp",
    "attribute": "m2m:responsePrimitive",
    "occursIn": [
        "Response",
        "aggregatedResponse",
        "transaction"
    ],
    "categories": [
        "Primitive Root Elements"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{
    "shortname": "acpi",
    "attribute": "accessControlPolicyIDs",
    "occursIn": [
        "All except accessControlPolicy",
        "contentInstance"
    ],
    "categories": [
        "Resource Attributes"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{

```

```

    "shortname": "aa",
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        "AE",
        "accessControlPolicy",
        "container",
        "contentInstance",
        "group",
        "locationPolicy",
        "mgmtObj",
        "node",
        "remoteCSE",
        "schedule",
        "semanticDescriptor"
    ],
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    "documents": [
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    ]
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        "container",
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        "locationPolicy",
        "mgmtObj",
        "node",
        "remoteCSE",
        "schedule",
        "semanticDescriptor"
    ],
    "categories": [
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},
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    ],
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    ],
    "documents": [
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    ]
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        "CSEBase"
    ],
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    "documents": [
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    ]
},
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    "attribute": "labels",
    "occursIn": [
        "All (optional)",
        "eventNotificationCriteria",
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    ],
    "categories": [
        "Complex Data Types",

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    ],
    "documents": [
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    ]
},
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    ],
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    ],
    "documents": [
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    ]
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    "attribute": "link",
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    ],
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    ],
    "documents": [
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    ]
},
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    "occursIn": [
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    ],
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    ],

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    ],
    "documents": [
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    ]
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        "contentInstance",
        "delivery",
        "request"
    ],
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    ],
    "documents": [
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    ]
},
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    "occursIn": [
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    ],
    "categories": [
        "Resource Attributes"
    ]
}

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    ],
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    ]
},
{
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    "occursIn": [
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        "setOfPermissions",
        "tokenPermission"
    ],
    "categories": [
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        "Resource Attributes"
    ],
    "documents": [
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    ]
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    ],
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    ],
    "documents": [
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    ]
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    ],
    "categories": [

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    "documents": [
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    ]
},
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    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
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    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
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    ],
    "categories": [
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    ],

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    ],
    "documents": [
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    ]
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    "attribute": "AE-IDList",
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    ],
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    ],
    "documents": [
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    ]
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    ],
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    ]
}

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      "CSEBase",
      "remoteCSE"
    ],
    "categories": [
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    ],
    "documents": [
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    ]
  },
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    "attribute": "ontologyRef",
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      "AE",
      "IPEDiscoveryRequest",
      "container",
      "contentInstance",
      "dynAuthDasRequest",
      "operationMonitor",
      "semanticDescriptor. flexContainer",
      "timeSeries"
    ],
    "categories": [
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      "Resource Attributes"
    ],
    "documents": [
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    ]
  },
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    "shortname": "nl",
    "attribute": "nodeLink",

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```

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        "CSEBase",
        "flexContainer",
        "remoteCSE"
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    "documents": [
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    ]
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    ],
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    ],
    "documents": [
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    ]
},
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    ],
    "documents": [
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    ]
},
{
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    ],
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    ]
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    ],
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        "remoteCSE"
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    ]
},
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    "documents": [
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    ]
},
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        "contentInstance",
        "crossResourceSubscription",
        "eventConfig",
        "flexContainer",
        "group",
        "notification",
        "notificationTargetPolicy",
        "pollingChannel",
        "semanticDescriptor",
        "statsCollect",
        "statsConfig",
        "subscription",
        "timeSeries"
    ],
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        "Resource Attributes"
    ],
    "documents": [
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```

```

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        "timeSeries"
    ],
    "categories": [
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    "documents": [
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    ]
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        "timeSeries"
    ],
    "categories": [
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    ],
    "documents": [
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    ]
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    "attribute": "maxInstanceAge",
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        "timeSeries"
    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{

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    "shortname": "cni",
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        "timeSeries"
    ],
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    ]
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    ]
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    "attribute": "contentInfo",
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        "timeSeries"
    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
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    "attribute": "contentSize",
    "occursIn": [
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        "timeSeriesInstance"
    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
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```



```

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    ],
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    "occursIn": [
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        "specializationType"
    ],
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        "Resource Attributes"
    ],
    "documents": [
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},
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    "attribute": "content",
    "occursIn": [
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        "timeSeriesInstance"
    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "CSE-ID",
    "occursIn": [
        "AEContactListPerCSE",
        "CSEBase",
        "remoteCSE",
        "service SubscribedNode"
    ],
    "categories": [
        "Resource Attributes"
    ],
    "documents": [
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    ]
},
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    "attribute": "supportedResourceType",
    "occursIn": [
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    ],
    "documents": [
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    ]
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  ],
  "documents": [
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  ]
},
{
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  "attribute": "source",
  "occursIn": [
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  ],
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  ],
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  ]
},
{
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  "occursIn": [
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    "request"
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  ],
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  ]
},
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  ]
},
{
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  "occursIn": [
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  ],
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},
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  ],
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},
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```

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    ],
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},
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    ],
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},
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    "attribute": "evenStart",
    "occursIn": [
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    ],
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    ],
    "documents": [
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    ]
},
{
    "shortname": "eve",
    "attribute": "eventEnd",

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```

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    ],
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    ],
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    ]
},
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    "attribute": "operationType",
    "occursIn": [
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    ],
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "dataSize",
    "occursIn": [
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    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "eventResourceTypes",
    "occursIn": [
        "eventConfig"
    ]
}

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    ],
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    ],
    "documents": [
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    ]
},
{
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    "occursIn": [
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    ],
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "execStatus",
    "occursIn": [
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    ],
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    ],
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    ]
},
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    "attribute": "execResult",
    "occursIn": [
        "execInstance"
    ],
    "categories": [

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```

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    ],
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    ]
},
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    "occursIn": [
        "execInstance"
    ],
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        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
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    "attribute": "execTarget",
    "occursIn": [
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        "mgmtCmd"
    ],
    "categories": [
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    "documents": [
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    ]
},
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    "attribute": "execMode",
    "occursIn": [
        "execInstance",
        "mgmtCmd"
    ],
    "categories": [

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```

        "Resource Attributes"
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    ]
},
{
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    "attribute": "execFrequency",
    "occursIn": [
        "execInstance",
        "mgmtCmd"
    ],
    "categories": [
        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
    "shortname": "exy",
    "attribute": "execDelay",
    "occursIn": [
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        "mgmtCmd"
    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "execNumber",
    "occursIn": [
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        "mgmtCmd"
    ],

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```

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},
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        "mgmtCmd"
    ],
    "categories": [
        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
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    "attribute": "execEnable",
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    ],
    "categories": [
        "Resource Attributes"
    ],
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},
{
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    "attribute": "memberType",
    "occursIn": [
        "group"
    ],
    "categories": [

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```

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    ]
},
{
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    "occursIn": [
        "accessControlObjectDetails",
        "childResourceRef",
        "group"
    ],
    "categories": [
        "Complex Data Types",
        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
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    "attribute": "currentNrOfMembers",
    "occursIn": [
        "group"
    ],
    "categories": [
        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
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    "attribute": "maxNrOfMembers",
    "occursIn": [
        "group"
    ],

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```

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    ],
    "documents": [
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    ]
},
{
    "shortname": "mid",
    "attribute": "memberIDs",
    "occursIn": [
        "backgroundDataTransfer",
        "group"
    ],
    "categories": [
        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
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    "attribute": "membersAccessControlPolicyIDs",
    "occursIn": [
        "group"
    ],
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "memberTypeValidated",
    "occursIn": [
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    ],
    "categories": [

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},
{
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    ],
    "documents": [
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},
{
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    "attribute": "semanticSupportIndicator",
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        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
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    "attribute": "notifyAggregation",
    "occursIn": [
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    ],
    "categories": [
        "Resource Attributes"
    ],

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    ]
},
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    "occursIn": [
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        "subscription"
    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "locationSource",
    "occursIn": [
        "locationPolicy"
    ],
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        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
    "shortname": "lou",
    "attribute": "locationUpdatePeriod",
    "occursIn": [
        "locationPolicy"
    ],
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    ],
    "documents": [

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        "ts-0004.docx"
    ]
},
{
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    "occursIn": [
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    ],
    "categories": [
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    ],
    "documents": [
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},
{
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    "occursIn": [
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    ],
    "categories": [
        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
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    "attribute": "locationContainerID",
    "occursIn": [
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    ],
    "categories": [
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    ],
    "documents": [
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    ]
}

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},
{
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  "categories": [
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  ],
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  ]
},
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  "attribute": "locationStatus",
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  ],
  "documents": [
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  ]
},
{
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    "Resource Attributes"
  ],
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  ]
},
{

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},
{
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    ],
    "documents": [
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    ]
},
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    ],
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    ],
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    ]
},
{
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    "attribute": "geographicalTargetArea",

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```

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    ],
    "categories": [
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    ],
    "documents": [
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},
{
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    "attribute": "geofenceEventCriteria",
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    ],
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "description",
    "occursIn": [
        "all management resources from firmware",
        "mgmtCmd",
        "mgmtObj",
        "ontology"
    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
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```

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    "occursIn": [
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    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "mgmtDefinition",
    "occursIn": [
        "all management resources from firmware",
        "mgmtObj",
        "specializationType"
    ],
    "categories": [
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        "Resource Attributes"
    ],
    "documents": [
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    ]
},
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    "categories": [
        "Resource Attributes"
    ],
    "documents": [
        "ts-0004.docx"
    ]
},
{

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    ],
    "documents": [
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    ]
},
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    ],
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "hostedCSELink",

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```

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    "categories": [
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    ],
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "hostedAELinks",
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "hostedServiceLinks",
    "occursIn": [
        "node"
    ]
}

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    ]
},
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    ],
    "documents": [
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    ]
},
{
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    ],
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    ],
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    ]
},
{
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    "attribute": "CSEBase",
    "occursIn": [
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    ],

```

```

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        "Resource Types"
    ],
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},
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        "locationPolicy",
        "remoteCSE",
        "triggerRequest"
    ],
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "Trigger-Recipient-ID",
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        "triggerRequest"
    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
    "shortname": "rr",
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    ],
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    ],
    "documents": [
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    ]
},
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    "attribute": "triggerReferenceNumber",
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    "documents": [
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    ]
},
{
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    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "multicastCapability",
    "occursIn": [
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    ]
}

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```

    ],
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},
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    ],
    "documents": [
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    ]
},
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    "attribute": "metaInformation",
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    ],
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    ],
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    ]
},
{
    "shortname": "rs",
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    "occursIn": [
        "request"
    ],
    "categories": [

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        "Resource Attributes"
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    ]
},
{
    "shortname": "ors",
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    "occursIn": [
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    ],
    "documents": [
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    ]
},
{
    "shortname": "rid",
    "attribute": "requestID",
    "occursIn": [
        "request"
    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
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    "occursIn": [
        "schedule"
    ],
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    ],

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    ],
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    ],
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    ]
},
{
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    "occursIn": [
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    ],
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    ],
    "documents": [
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},
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    ],
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    ],
    "documents": [
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    ]
}

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  },
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    ],
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    ]
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    ]
  },
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    "attribute": "collectingEntityID",
    "occursIn": [
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    ],
    "categories": [
      "Resource Attributes"
    ],
    "documents": [
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    ]
  },

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```

{
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  ],
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  ]
},
{
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  "occursIn": [
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  ],
  "categories": [
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  ],
  "documents": [
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  ]
},
{
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  ],
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  ],
  "documents": [
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  ]
},
{
  "shortname": "sm",

```

```

    "attribute": "statModel",
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    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
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    ],
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    ]
},
{
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    ]
},
{
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    "attribute": "expirationCounter",
    "occursIn": [

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```

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        "subscription"
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},
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        "responseTypeInfo",
        "subscription"
    ],
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        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
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    ],
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},
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```

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        "subscription"
    ],
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    ],
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    ]
},
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    ]
},
{
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    ]
},
{
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```



```
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    "categories": [
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},
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    ],
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    ]
},
{
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    "attribute": "notificationStoragePriority",
    "occursIn": [
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    ],
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    ]
},
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    "attribute": "latestNotify",
    "occursIn": [
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    ]
},
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    "attribute": "notificationContentType",
    "occursIn": [
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    ],
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "notificationEventCat",
    "occursIn": [
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        "subscription"
    ],
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    ],
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    ]
},
{
    "shortname": "su",
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    "occursIn": [
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```

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    ],
    "documents": [
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    ]
},
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    "occursIn": [
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        "software",
        "softwareUninstallArgsType",
        "token",
        "tokenClaimSet"
    ],
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        "Resource Attributes"
    ],
    "documents": [
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    ]
},
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    "occursIn": [
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        "firmware",
        "software"
    ],
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        "Resource Attributes"
    ],
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    ]
}

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]
},
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  ],
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},
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  ],
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},
{
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  ],
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  ],
  "documents": [
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  ]
},
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  ]
},
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  "attribute": "installStatus",
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  ]
},
{
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  ],
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  ]
},
{
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```

```

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    "documents": [
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    ]
},
{
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    "attribute": "activeStatus",
    "occursIn": [
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        "software"
    ],
    "categories": [
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    ],
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},
{
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    "attribute": "memAvailable",
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    ],
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "memTotal",

```

```

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    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
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    "occursIn": [
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    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "listOfDevices",
    "occursIn": [
        "areaNwkInfo"
    ],
    "categories": [
        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
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    "attribute": "devId",
    "occursIn": [
        "areaNwkDeviceInfo"
    ]
}

```

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    ],
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    ],
    "documents": [
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    ]
},
{
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    "attribute": "devType",
    "occursIn": [
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    ],
    "categories": [
        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
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    "attribute": "areaNwkId",
    "occursIn": [
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    ],
    "categories": [
        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
    "shortname": "sli",
    "attribute": "sleepInterval",
    "occursIn": [
        "areaNwkDeviceInfo"
    ],
    "categories": [

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```

        "Resource Attributes"
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    "documents": [
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    ]
},
{
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        "areaNwkDeviceInfo"
    ],
    "categories": [
        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
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    "attribute": "listOfNeighbors",
    "occursIn": [
        "areaNwkDeviceInfo"
    ],
    "categories": [
        "Resource Attributes"
    ],
    "documents": [
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    ]
},
{
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    "occursIn": [
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    ],
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    ],

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    ],
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    ],
    "documents": [
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    ]
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    "attribute": "deviceLabel",
    "occursIn": [
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    ],
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    ],
    "documents": [
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    ]
  },
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    "attribute": "manufacturer",
    "occursIn": [
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    ],
    "categories": [
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    ],
    "documents": [
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    ]
  }
}
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    ]
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  {
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    "occursIn": [
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    ],
    "documents": [
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    ]
  },
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    "attribute": "deviceType",
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    ],
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    ],
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    ]
  },
  {
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    ],
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    ]
  },

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}

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      "n/a",
      "reboot"
    ],
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      "Resource Attributes",
      "Resource Types"
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    ]
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    "attribute": "logTypeId",
    "occursIn": [
      "eventLog"
    ],
    "categories": [
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    ],
  },

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    ]
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    ],
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    ]
}

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    ],
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    "documents": [
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    ]
  },

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  "documents": [
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  ]
},
{
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  "attribute": "mgmtLink",
  "occursIn": [
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    "cmdhDefaults",
    "cmdhNetworkAccessRules",
    "cmdhNwAccessRule",
    "cmdhPolicy"
  ],
  "categories": [
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  ],
  "documents": [
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  ]
},
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  ],
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  ]
}

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    ],
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    ]
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    ]
  }

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      "cmdhLimits"
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      "cmdhLimits"
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        "cmdhEcDefParamValues"
    ],
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},
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    ],
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    ]
}

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    "attribute": "defaultRespPersistence",
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    ]
  },

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},
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  ]
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},
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    ],
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    "documents": [
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},
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    ],
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    ],
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},
{
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    ],
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    ],
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},
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    "attribute": "maxBufferSize",
    "occursIn": [
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    ],
    "categories": [
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    ]
}

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    ],
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    ]
},
{
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    ],
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},
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},
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    "attribute": "notificationTargetURI",
    "occursIn": [
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    ],
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    ],
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    ]
}

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},
{
  "shortname": "acn",
  "attribute": "action",
  "occursIn": [
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    "notificationTargetPolicy"
  ],
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    "Resource Attributes"
  ],
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},
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  ]
}

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},
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},
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},
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    ],
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},
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    "attribute": "dynamicAuthorizationEnabled",
    "occursIn": [
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    ],
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    ],
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    ],
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    ]
},
{
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    "attribute": "dynamicAuthorizationLifetime",

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    ],
    "categories": [
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    ],
    "documents": [
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},
{
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    "occursIn": [
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    ],
    "categories": [
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    ],
    "documents": [
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    ]
},
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    "occursIn": [
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    ]
},
{
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    "attribute": "descriptor",
    "occursIn": [
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    ]
}

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    ],
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    ]
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    ],
    "documents": [
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},
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    "attribute": "semanticValidated",
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    ],
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},
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},
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    ],
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    "occursIn": [
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    ],

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},
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    ],
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},
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    "attribute": "missingDataCurrentNr",
    "occursIn": [
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    ],
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    ],
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    ]
},
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    "attribute": "missingDataDetectTimer",
    "occursIn": [
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    ],
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    ],
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    ]
}

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        "Trigger Payload Fields"
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},
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}

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        "transactionMgmt"
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        "transactionMgmt"
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},
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        "transactionMgmt"
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    ]
  },

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},
{
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},
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{
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}

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{
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    ]
},
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    ]
}

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  "attribute": "statsConfig",
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},
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},
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}

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    ]
  },

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  ]
},
{
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```

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},
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},
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    ],
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},
{
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    "attribute": "cmdhBuffer",
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},
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},
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    ]
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},
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    ],
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},
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},
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    ],
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    ],
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    ]
}

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},
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    ]
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        "softwareInstallArgsType softwareUpdateArgsType",
        "softwareUninstallArgsType",
        "uploadArgsType"
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    "receiverESPrimRandObject"
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  "categories": [
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  ]
},
{
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},
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},
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},
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},
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    "occursIn": [
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},
{
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    "documents": [
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    ]
},
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    ]
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  "documents": [
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},
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    "attribute": "triggerInfoPoA",
    "occursIn": [
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    ],
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{
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    "attribute": "triggerInfoSerializationTypes",
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    ]
}

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],
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