

## Managing a Resolution Request

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To enable the application to submit a resolution request and obtain the associated values:

1. Construct a `NicKey` object to enable the application to pass the data key to the NIC proxy:

```
NicKey nicKey = new NicKey(stringKey);
```

- `stringKey`—Data key for which you want to find corresponding values.

For the syntax of allowed data types, see Overview of the NIC Resolution Process.

2. If the resolution process specifies constraints that you wish to provide in the resolution request, add them to the `NicKey` object:

```
NicKey.addConstraint(constName, constValue);
```

- `constName`—Name of the constraint.

For the allowed data types and their syntax, see Overview of the NIC Resolution Process.

- `constValue`—Specific value of the constraint.

For the allowed syntax for the data types, see Overview of the NIC Resolution Process.

3. Call a method that starts the resolution process.

For example, you can call a method specified in the NIC interface:

```
NicValue val = nicProxy.lookupSingle(nicKey);
```

Alternatively, if the expected data value is an SAE reference, you can call the following method:

```
Saeld saeld = nicProxy.lookupSae(nicKey);
```

4. Call the `getValue` method to access the string representation of the data value obtained by the NIC proxy.

```
String val=val.getValue();
```

Alternatively, if the expected data value is an SAE reference:

```
String val=saeld.getValue();
```

5. (Optional) Call a method to get intermediate values obtained during a resolution.
  - Call the `getIntermediateValue` method if the application expects only one value. This method takes the name of a data type and returns as a string the first value it finds.

```
String getIntermediateValue(String dataTypeName){};  
}
```

For information about data types, see Overview of the NIC Resolution Process.

- Call the `getIntermediateValues` or `getAllIntermediateValues` method if the application expects multiple values. These methods take the name of a data type and return values as follows:
  - The `getIntermediateValues` method returns a list of values as a string array.

```
String[] getIntermediateValues(String dataTypeName){};
```

- For information about data types, see Overview of the NIC Resolution Process
  - The `getAllIntermediateValues` method returns a map of all intermediate values for the request. The key for the map is the name of the network data type, and the value of the map is a string array of the intermediate values.

```
Map getAllIntermediateValues();
```

- Related Topics**
- Constraints as NIC Data Types
  - NIC Data Types