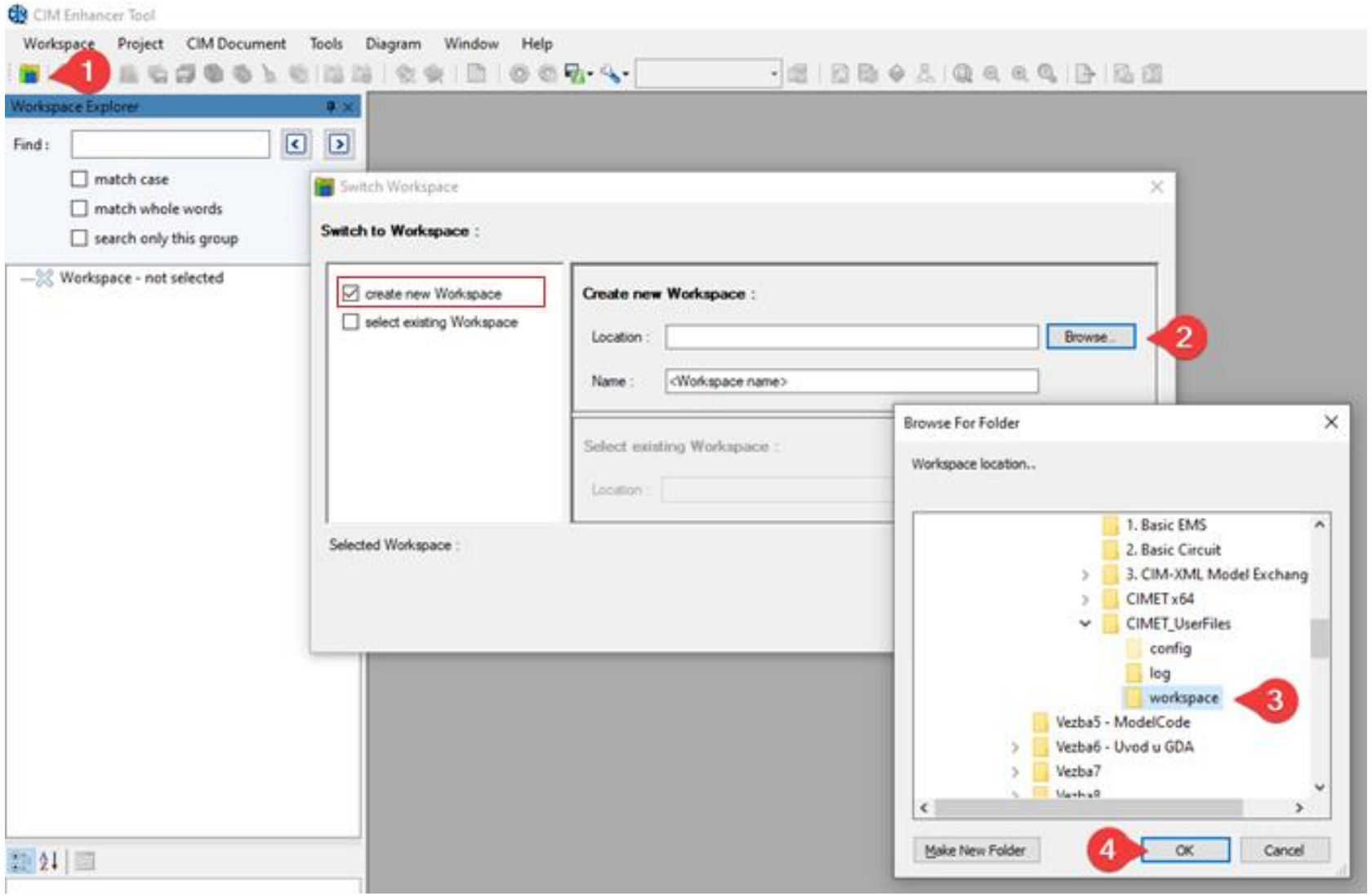
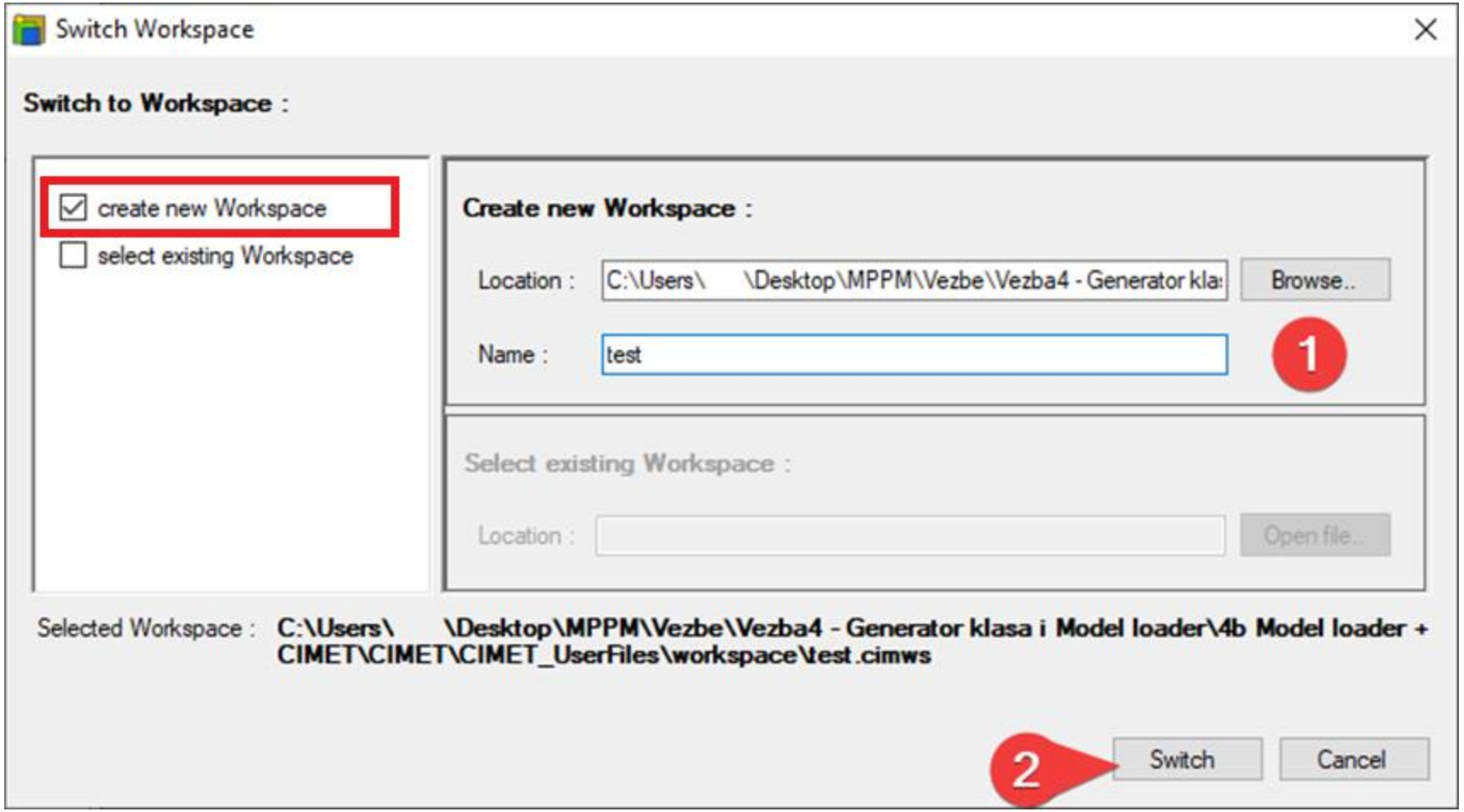
Modeli podataka u pametnim mrežama

CIMET

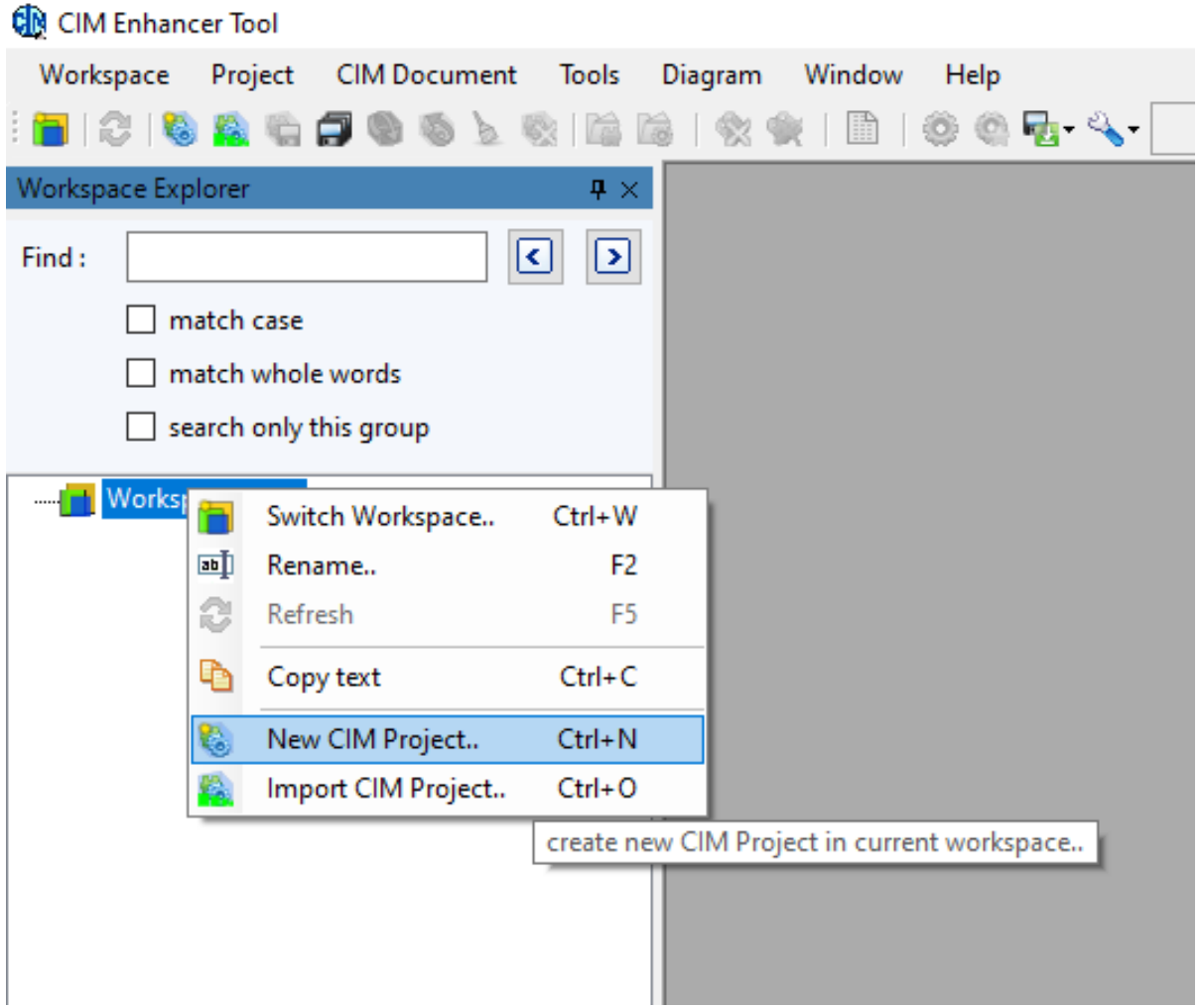
CIMET – Kreiranje *workspace*-a 1/2



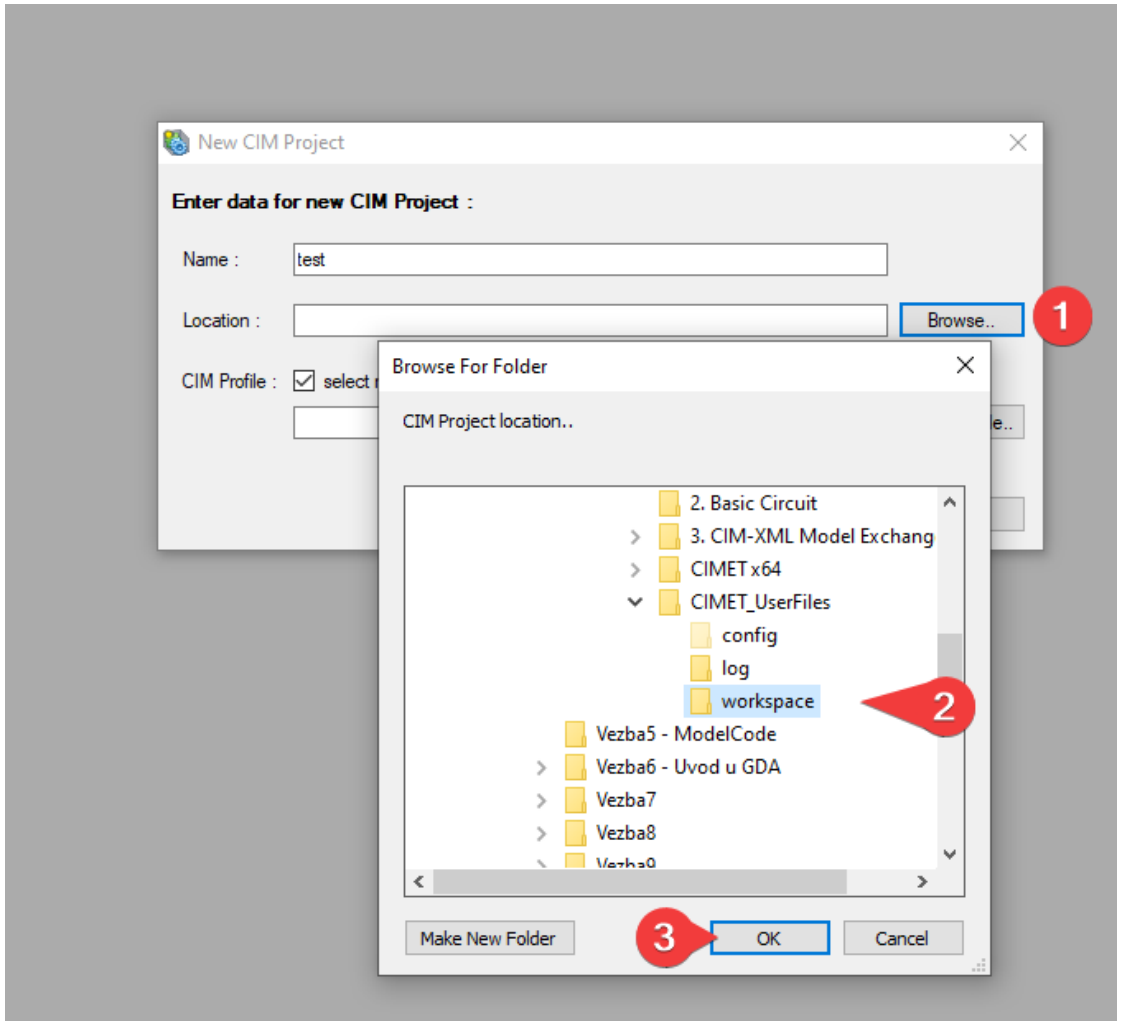
CIMET – Kreiranje *workspace*-a 2/2



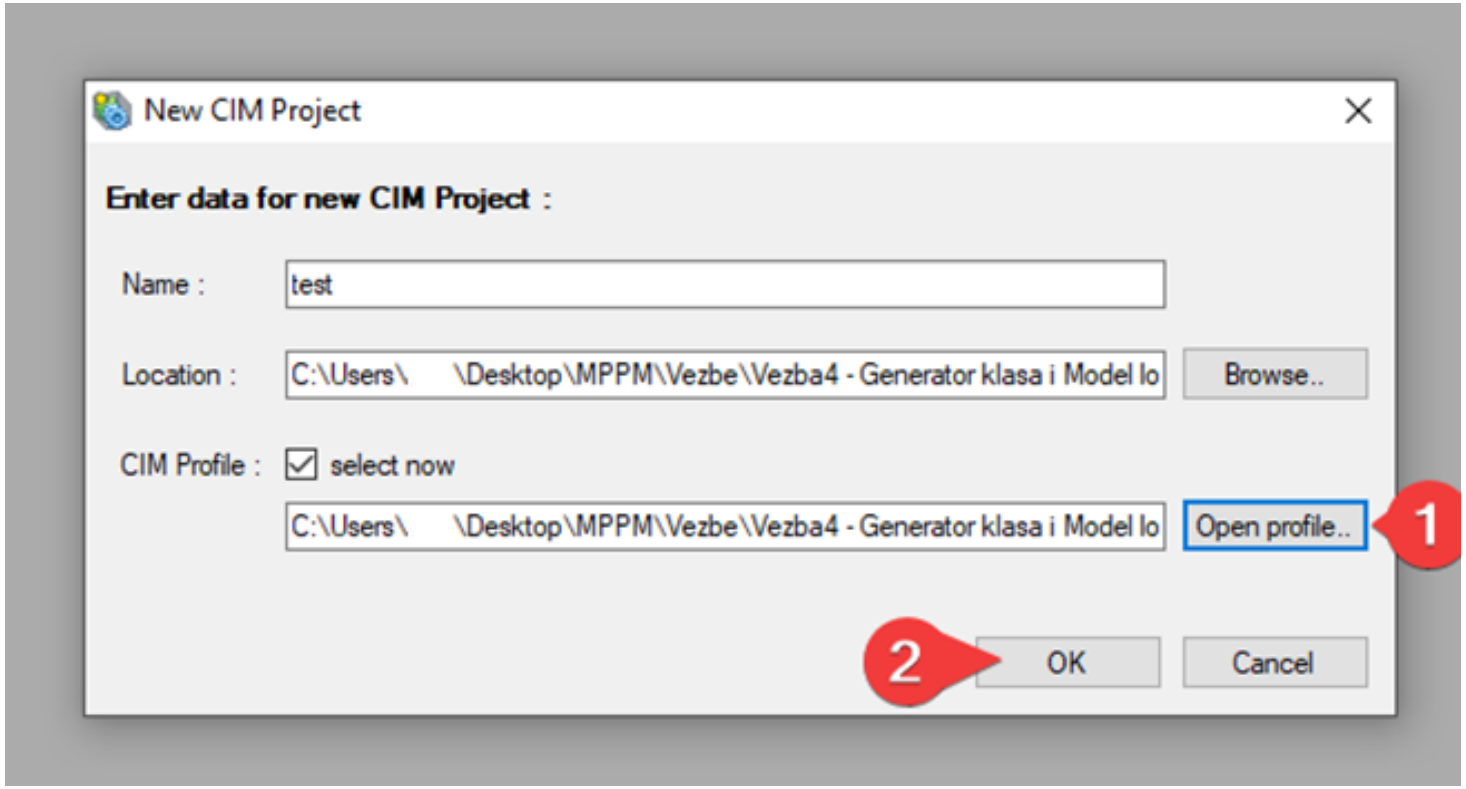
CIMET – Kreiranje projekta 1/3



CIMET – Kreiranje projekta 2/3



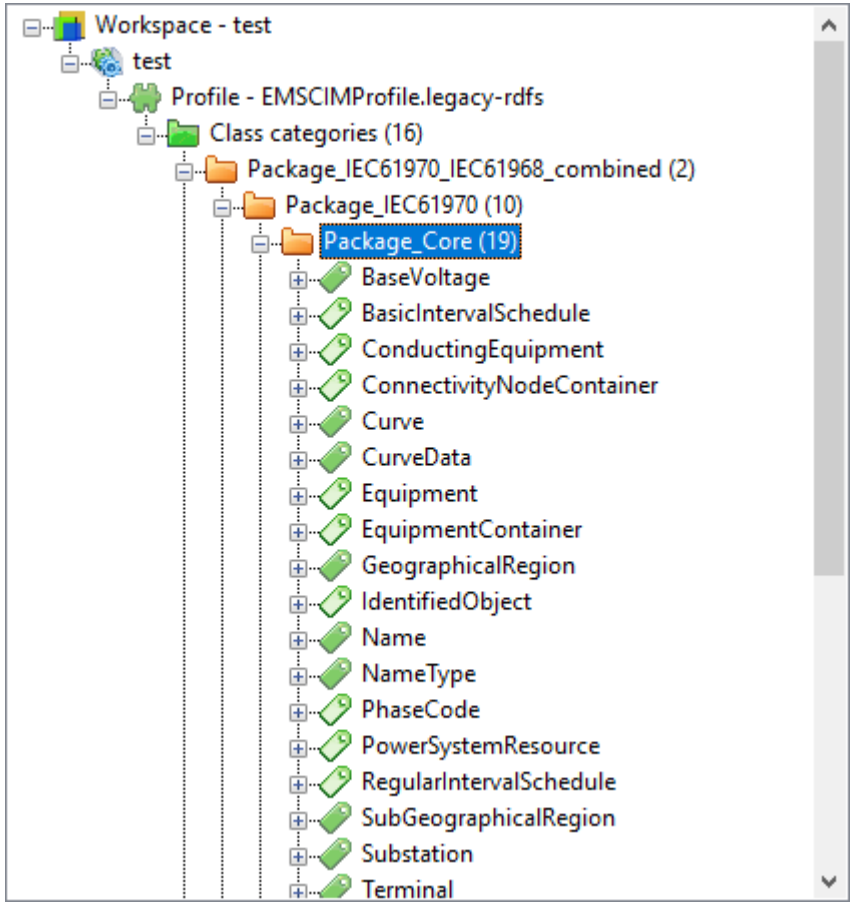
CIMET – Kreiranje projekta 3/3



- CIM profil može biti učitan u više formata:
  - .legacy-rdfs, .xml, .html, .owl

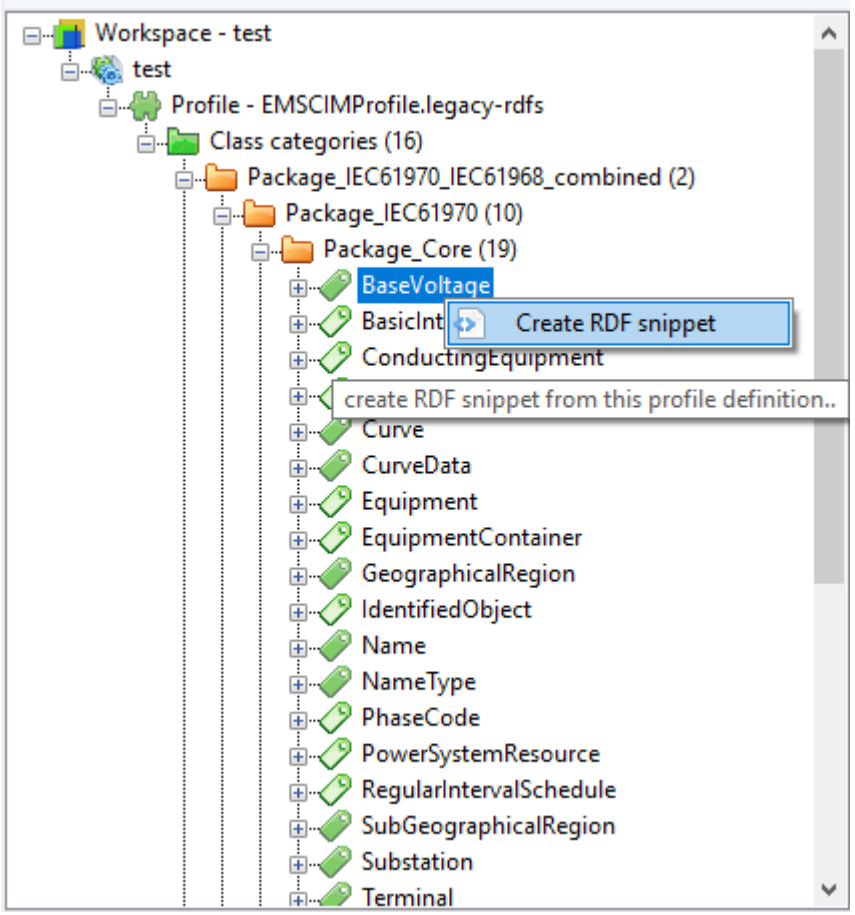
CIMET – Pregled CIM profila

- U učitanoj datoteci nalazi se definicija CIM profila.
- CIM profil daje opis za svaki tip resursa.
- Resursi su organizovani u pakete.
  - *Cores*
  - *Wires*
  - ...



CIMET – RDF snippet 1/2

- Resursi mogu biti:
  - *concrete* (mogu se instancirati)
  - *abstract* (ne mogu se instancirati)
- Konkretni resursi su obojeni jarkom zelenom bojom
- Za njih možemo kreirati RDF *snippet*-e
  - Desni klik -> Create RDF snippet
- Snippet će biti kopiran u *clipboard*



CIMET – RDF snippet 2/2

- RDF *snippet*-e potom *paste*-ujemo u .xml „datoteku sa podacima“

data.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF>
    <cim:BaseVoltage rdf:ID=" ">
        <cim:BaseVoltage.nominalVoltage> </cim:BaseVoltage.nominalVoltage>
        <cim:IdentifiedObject.description></cim:IdentifiedObject.description>
        <cim:IdentifiedObject.mRID></cim:IdentifiedObject.mRID>
        <tdms:IdentifiedObject.name></tdms:IdentifiedObject.name>
    </cim:BaseVoltage>
</rdf:RDF>
```

- Podatke je potrebno popuniti ručno. Na primer:

data.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF>
    <cim:BaseVoltage rdf:ID="BV1">
        <cim:BaseVoltage.nominalVoltage>220</cim:BaseVoltage.nominalVoltage>
        <cim:IdentifiedObject.description>Base Voltage 1 Description</cim:IdentifiedObject.description>
        <cim:IdentifiedObject.mRID>BV1</cim:IdentifiedObject.mRID>
        <tdms:IdentifiedObject.name>Base_Voltage</tdms:IdentifiedObject.name>
    </cim:BaseVoltage>
</rdf:RDF>
```