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# **CBOR format documentation**

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version: 3.0

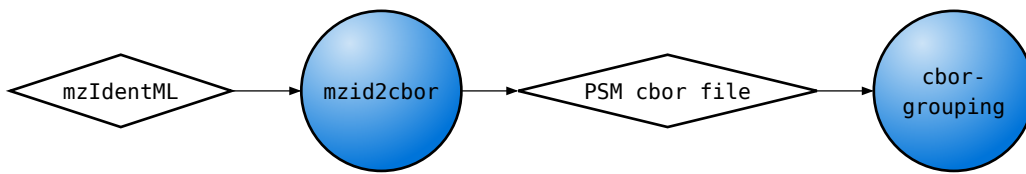
Olivier Langella

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# PSM CBOR format

psm CBOR format is documented in PAPPSOms++ project.



## Command line interface

```
mzid2cbor -i identification.mzid -o results.cbor
```

### MzIdentML to CBOR

## grouping CBOR format

It could be something like that :

*Grouping cbor file format*

```

{
  "sample_list": {
    "sampl": {
      "name": "20120906_balliau_extract_1_A01_urnb-1",
      "file": "/home/langella/data1/tandem/extraction/20120906_balliau_extract_1_A01_urnb-1.xml"
    }
  },
  "protein_list": {
    "a1.a1.a1" : {
      "decoy": false,
      "contaminant": true,
      "accession": "P02769|ALBU_BOVIN",
      "description": "P02769|ALBU_BOVIN SERUM ALBUMIN PRECURSOR"
    },
    "a1.a2.a1" : {
      "description": "P02780|ALBU_BOVIN SERUM ALBUMIN PRECURSOR"
    }
  },
  "group_list": [
    {
      "number": 1,
      "subgroup_list": {
        "a1.a1": {
          "number": 1,
          "protein_list": ["a1.a1.a1"]
        },
        "a1.a2": {
          "number": 2,
          "protein_list": ["a1.a2.a1", "a1.a2.a2", "a1.a2.a3"]
        }
      }
    },
    {
      "a1": {
        "peptide_list": {
          "pepalal": {
            "subgroups": [1,2],
  
```

```
    "proformaI": "[Acetyl]-SAMPIER",
    "forms": [
      {
        "proforma": "[Acetyl]-SAMPLER",
        "count": 8
      }
    ],
    "psm_list": [
      {
        "sample": "ref_sample",
        "scan_index": 756,
        "label": "light",
        "charge": 2
      }
    ]
  }
},
{
  }
]
}
```

**Thierry** I think it's a good idea to add a block to define label expressed at top level to replicate the information, probably with psimod or unimod strings

**Olivier** What do you mean ?

**Thierry** did you expect to add the origin of data (identification engine and filters)

**Olivier** It needs to be linked somehow to the PSM cbor original file

**Thierry** i don't see the observed mass in psm list is it a feature?

**Olivier** Observed mass is really linked to the PSMs, I would prefer that information to be retrieved from PSM CBOR file