Stamdata

Vaccination Importer

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# Formål

En beskrivelse af Stamdata importeren til Vaccinationsdata.

Projektet bygger på designet til Stamdata 4.0, beskrevet her: <https://github.com/trifork/sdm4-core/tree/sdm-core-4.0/doc>

Kravspecifikationen ligger her:

<https://github.com/trifork/sdm4-vaccinationimporter/blob/master/doc/bestilling-stamdata-ddv_v1.0.docx>

Dette dokument giver et overordnet overblik over hvordan de enkelte krav forventes imødekommet.

# Løsningsbeskrivelse for vaccination importer

VaccinationImporteren indlæser en række filer der kommer fra Det Danske Vaccinationsregisters (DDV) FTP site. Filerne indeholder data for vaccinationer, sygdomme og relaterede lægemidler

## Datafiler

Et datafil sæt består af følgende filer alle i XML-format og med codepage UTF-8.

|  |  |
| --- | --- |
| ExpDiseases.xml | Data for sygdomme |
| ExpDiseasesVaccines.xml | Data for relationer mellem sygdomme og vaccinationer |
| ExpDosageOptions.xml | Data for doseringer til vaccinationer |
| ExpSSIDrugs.xml | Data for SSI lægemidler |
| ExpVaccinationPlanItems.xml | Data for i vaccinationsforløb |
| ExpVaccinationPlans.xml | Data for vaccinationsforløb |
| ExpVaccines.xml | Data for vacciner |
| ExpVaccinesDrugs.xml | data for relationer mellem vacciner og lægemidler |

Detaljer for filerne er beskrevet i følgende dokument:

<https://github.com/trifork/sdm4-vaccinationimporter/blob/master/doc/exp_ddvstamdata_filformater_v1.0.xlsx>

### Adgang til FTP site

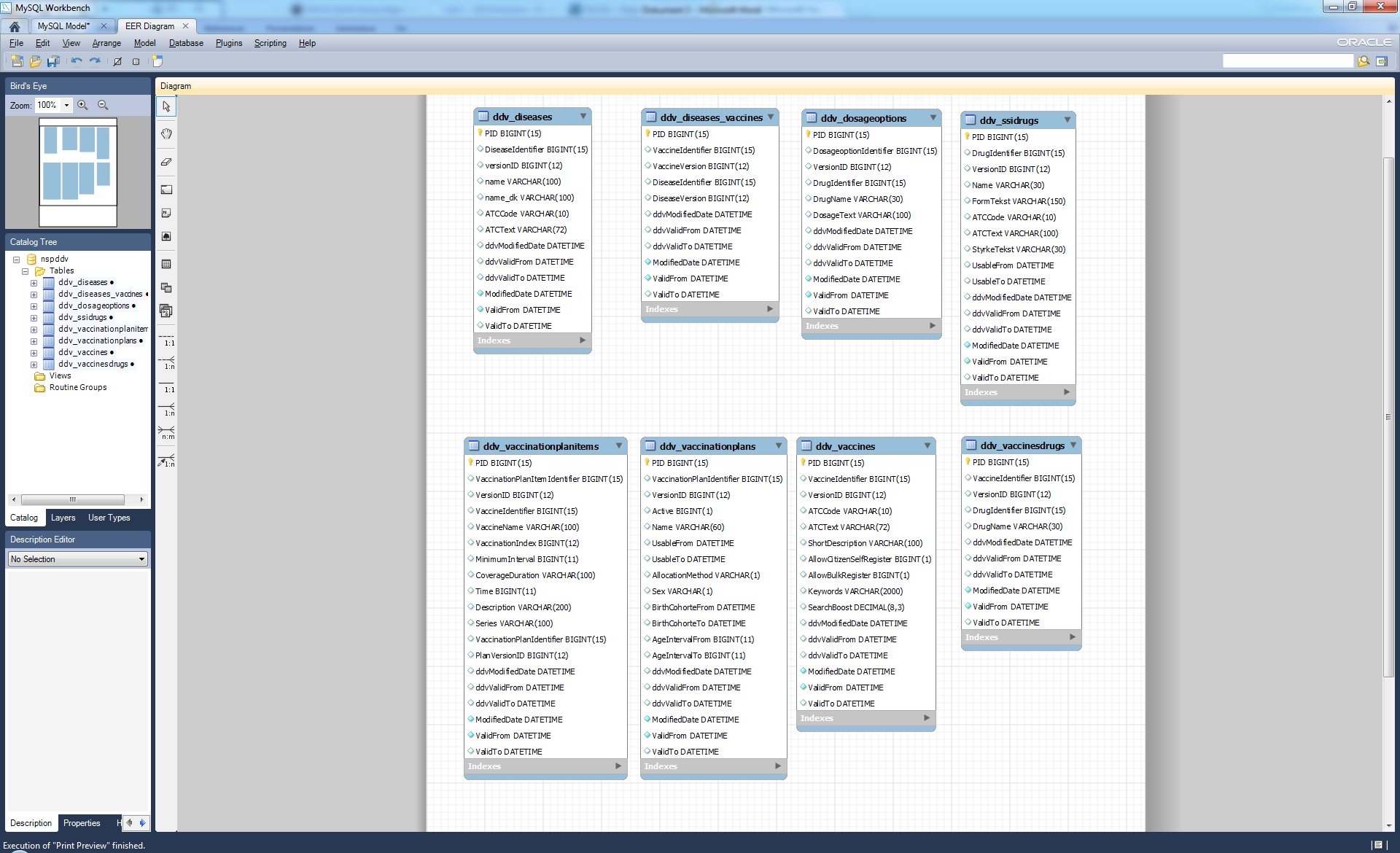
Filernes ”pushes” fra DDV til NSP’s ftp-server.

## Datamodel

Der er ingen transformationer af data fra fil formaterne – så alle data ligger i databasen som de er beskrevet i ovenstående dokument.

Datamodellen ser ud som følgende:

* diseases indeholder data fra ExpDiseases.xml
* diseases\_vaccines indeholder data fra ExpDiseasesVaccines.xml
* dosageoptions indeholder data fra ExpDosageOptions.xml
* ssidrugs indeholder data fra ExpSSIDrugs.xml
* vaccinationplanitems indeholder data fra ExpVaccinationPlanItems.xml
* vaccinationplans indeholder data fra ExpVaccinationPlans.xml
* vaccines indeholder data fra ExpVaccines.xml
* vaccinesdrugs indeholder data fra ExpVaccinesDrugs.xml



SQL script til databasen ligger her:

<https://github.com/trifork/sdm4-vaccinationimporter/blob/master/src/main/resources/db/migration/V20120911_1014__Vaccinationimporter_Tables.sql>

### Historiske data

Der ønskes ingen historik for vaccinationimporteren, i praksis betyder det at data slettes inden hver import

## Kopiregisterservice

Data udstilles kun via Stamdata Kopi Register Servicen (SKRS), der er ikke nogen online opslag eller andre former for eksport af data.

For at få adgang til data via SKRS skal følgende stier bruges:

|  |  |  |  |
| --- | --- | --- | --- |
| **Register** | **Datatype** | **Version** | **Tabeldata** |
| ddv | diseases | v1 | diseases |
| ddv | diseases\_vaccines | v1 | diseases\_vaccines |
| ddv | dosageoptions | v1 | dosageoptions |
| ddv | ssidrugs | v1 | ssidrugs |
| ddv | vaccinationplanitems | v1 | vaccinationplanitems |
| ddv | vaccinationplan | v1 | vaccinationplan |
| ddv | vaccines | v1 | vaccines |
| ddv | vaccines\_drugs | v1 | vaccines\_drugs |

For nærmere beskrivelse af SKRS og brugen deraf, se: [https://svn.softwareborsen.dk/stamdata/tags/v3.4.14/Dokumentation/Guide til anvendere.docx](https://svn.softwareborsen.dk/stamdata/tags/v3.4.14/Dokumentation/Guide%20til%20anvendere.docx)

## Formater

SKRS returnerer data i et Atom feed. Et feed består af et antal entry elementer, som hver har et content element som wrapper DDV data. DDV data ligger i et selvstændigt namespace http://nsi.dk/-/stamdata/3.0/ddv.

### Diseases

<atom:entry>

<atom:id>tag:nsi.dk,2011:ddv/diseases/v1/13552274570000000001</atom:id>

<atom:title/>

<atom:updated>2012-12-11T12:04:17.000Z</atom:updated>

<atom:content type="application/xml">

<diseases:diseases xmlns:diseases="http://nsi.dk/-/stamdata/3.0/ddv" xmlns="http://nsi.dk/-/stamdata/3.0/ddv">

<DiseaseIdentifier>1</DiseaseIdentifier>

<versionID>1</versionID>

<name>Anthrax</name>

<name\_dk>Anthrax</name\_dk>

<ATCCode>J07AC</ATCCode>

<ATCText>Anthrax vacciner</ATCText>

<ddvModifiedDate>2010-05-03 02:31:54.0</ddvModifiedDate>

<ddvValidFrom>2002-09-01 00:00:00.0</ddvValidFrom>

<ddvValidTo>2010-05-04 12:00:00.0</ddvValidTo>

<ValidFrom>2012-12-11T12:04:17.000Z</ValidFrom>

<ValidTo>2999-12-31T00:00:00.000Z</ValidTo>

<ModifiedDate>2012-12-11T12:04:17.000Z</ModifiedDate>

</diseases:diseases>

</atom:content>

</atom:entry>

|  |  |
| --- | --- |
| XML tag | Beskrivelse |
| diseases:diseases | Root tag |
| DiseaseIdentifier |  |
| versionID |  |
| name |  |
| name\_dk |  |
| ATCCode |  |
| ATCText |  |
| ddvModifiedDate |  |
| ddvValidFrom |  |
| ddvValidTo |  |
| ValidFrom |  |
| ValidTo |  |
| ModifiedDate |  |

### Diseases\_Vaccines

<diseases\_vaccines:diseases\_vaccines xmlns:diseases\_vaccines="http://nsi.dk/-/stamdata/3.0/ddv" xmlns="http://nsi.dk/-/stamdata/3.0/ddv">

<VaccineIdentifier>1617209100</VaccineIdentifier>

<VaccineVersion>1</VaccineVersion>

<DiseaseIdentifier>1</DiseaseIdentifier>

<DiseaseVersion>2</DiseaseVersion>

<ddvModifiedDate>2010-05-03 02:31:54.0</ddvModifiedDate>

<ddvValidFrom>2002-09-01 00:00:00.0</ddvValidFrom>

<ddvValidTo>2010-06-23 12:00:00.0</ddvValidTo>

<ValidFrom>2012-12-11T12:04:17.000Z</ValidFrom>

<ValidTo>2999-12-31T00:00:00.000Z</ValidTo>

<ModifiedDate>2012-12-11T12:04:17.000Z</ModifiedDate>

</diseases\_vaccines:diseases\_vaccines>

|  |  |
| --- | --- |
| XML tag | Beskrivelse |
| diseases\_vaccines:diseases\_vaccines | Root tag |
| VaccineIdentifier |  |
| VaccineVersion |  |
| DiseaseIdentifier |  |
| DiseaseVersion |  |
| ddvModifiedDate |  |
| ddvValidFrom |  |
| ddvValidTo |  |
| ValidFrom |  |
| ValidTo |  |
| ModifiedDate |  |

### Dosage\_Options

<dosageoptions:dosageoptions xmlns:dosageoptions="http://nsi.dk/-/stamdata/3.0/ddv" xmlns="http://nsi.dk/-/stamdata/3.0/ddv">

<DosageoptionIdentifier>111111</DosageoptionIdentifier>

<VersionID>1</VersionID>

<DrugIdentifier>28101565493</DrugIdentifier>

<DrugName>Havrix</DrugName>

<DosageText>1 \* 1/4 dosis - barn under 20 kg</DosageText>

<ddvModifiedDate>2010-05-03 02:31:54.0</ddvModifiedDate>

<ddvValidFrom>2002-09-01 00:00:00.0</ddvValidFrom>

<ddvValidTo>2010-05-18 00:00:00.0</ddvValidTo>

<ValidFrom>2012-12-11T12:04:17.000Z</ValidFrom>

<ValidTo>2999-12-31T00:00:00.000Z</ValidTo>

<ModifiedDate>2012-12-11T12:04:17.000Z</ModifiedDate>

</dosageoptions:dosageoptions>

|  |  |
| --- | --- |
| XML tag | Beskrivelse |
| DosageoptionIdentifier |  |
| VersionID |  |
| DrugIdentifier |  |
| DrugName |  |
| DosageText |  |
| ddvModifiedDate |  |
| ddvValidFrom |  |
| ddvValidTo |  |
| ValidFrom |  |
| ValidTo |  |
| ModifiedDate |  |

### SSIDrugs

<ssidrugs:ssidrugs xmlns:ssidrugs="http://nsi.dk/-/stamdata/3.0/ddv" xmlns="http://nsi.dk/-/stamdata/3.0/ddv">

<DrugIdentifier>1</DrugIdentifier>

<VersionID>1</VersionID>

<Name>Propofol B. Braun</Name>

<FormTekst>injektions- og infusionsvæske, emulsion</FormTekst>

<ATCCode>N01AX10</ATCCode>

<ATCText>Propofol</ATCText>

<StyrkeTekst>10 mg/ml</StyrkeTekst>

<UsableFrom/>

<UsableTo/>

<ddvModifiedDate>2010-05-03 02:31:54.0</ddvModifiedDate>

<ddvValidFrom>2005-10-10 00:00:00.0</ddvValidFrom>

<ddvValidTo>2006-02-12 00:00:00.0</ddvValidTo>

<ValidFrom>2012-12-11T12:04:17.000Z</ValidFrom>

<ValidTo>2999-12-31T00:00:00.000Z</ValidTo>

<ModifiedDate>2012-12-11T12:04:17.000Z</ModifiedDate>

</ssidrugs:ssidrugs>

|  |  |
| --- | --- |
| XML tag | Beskrivelse |
| DrugIdentifier |  |
| VersionID |  |
| Name |  |
| FormTekst |  |
| ATCCode |  |
| ATCText |  |
| StyrkeTekst |  |
| UsableFrom |  |
| UsableTo |  |
| ddvModifiedDate |  |
| ddvValidFrom |  |
| ddvValidTo |  |
| ValidFrom |  |
| ValidTo |  |
| ModifiedDate |  |

### VaccinationPlanItems

<vaccinationplanitems:vaccinationplanitems xmlns:vaccinationplanitems="http://nsi.dk/-/stamdata/3.0/ddv" xmlns="http://nsi.dk/-/stamdata/3.0/ddv">

<VaccinationPlanItemIdentifier>111101</VaccinationPlanItemIdentifier>

<VersionID>1</VersionID>

<VaccineIdentifier>1617151435</VaccineIdentifier>

<VaccineName>Difteri-hemophilus influenzae b-pertussis-polio-tetanus</VaccineName>

<VaccinationIndex>1</VaccinationIndex>

<MinimumInterval>0</MinimumInterval>

<CoverageDuration/>

<Time>90</Time>

<Description/>

<Series>DiTeKiPolHib</Series>

<VaccinationPlanIdentifier>111111</VaccinationPlanIdentifier>

<PlanVersionID>1</PlanVersionID>

<ddvModifiedDate>2010-05-03 02:31:54.0</ddvModifiedDate>

<ddvValidFrom>2002-09-01 00:00:00.0</ddvValidFrom>

<ddvValidTo>2999-12-31 00:00:00.0</ddvValidTo>

<ValidFrom>2012-12-11T12:04:17.000Z</ValidFrom>

<ValidTo>2999-12-31T00:00:00.000Z</ValidTo>

<ModifiedDate>2012-12-11T12:04:17.000Z</ModifiedDate>

</vaccinationplanitems:vaccinationplanitems>

|  |  |
| --- | --- |
| XML tag | Beskrivelse |
| VaccinationPlanItemIdentifier |  |
| VersionID |  |
| VaccineIdentifier |  |
| VaccineName |  |
| VaccinationIndex |  |
| MinimumInterval |  |
| CoverageDuration |  |
| Time |  |
| Description |  |
| Series |  |
| PlanVersionID |  |
| ddvModifiedDate |  |
| ddvValidFrom |  |
| ddvValidTo |  |
| ValidFrom |  |
| ValidTo |  |
| ModifiedDate |  |

### VaccinationPlan

<vaccinationplan:vaccinationplan xmlns:vaccinationplan="http://nsi.dk/-/stamdata/3.0/ddv" xmlns="http://nsi.dk/-/stamdata/3.0/ddv">

<VaccinationPlanIdentifier>111111</VaccinationPlanIdentifier>

<VersionID>1</VersionID>

<Active>1</Active>

<Name>Børnevaccinationsprogrammet</Name>

<UsableFrom>2002-09-01 00:00:00.0</UsableFrom>

<UsableTo>2999-12-31 00:00:00.0</UsableTo>

<AllocationMethod>A</AllocationMethod>

<Sex/>

<BirthCohorteFrom/>

<BirthCohorteTo/>

<AgeIntervalFrom>0</AgeIntervalFrom>

<AgeIntervalTo>4320</AgeIntervalTo>

<ddvModifiedDate>2010-05-03 02:31:54.0</ddvModifiedDate>

<ddvValidFrom>2002-09-01 00:00:00.0</ddvValidFrom>

<ddvValidTo>2010-05-09 12:00:00.0</ddvValidTo>

<ValidFrom>2012-12-11T12:04:17.000Z</ValidFrom>

<ValidTo>2999-12-31T00:00:00.000Z</ValidTo>

<ModifiedDate>2012-12-11T12:04:17.000Z</ModifiedDate>

</vaccinationplan:vaccinationplan>

|  |  |
| --- | --- |
| XML tag | Beskrivelse |
| VaccinationPlanIdentifier |  |
| VersionID |  |
| Active |  |
| Name |  |
| UsableFrom |  |
| UsableTo |  |
| AllocationMethod |  |
| Sex |  |
| BirthCohorteFrom |  |
| BirthCohorteTo |  |
| AgeIntervalFrom |  |
| AgeIntervalTo |  |
| ddvModifiedDate |  |
| ddvValidFrom |  |
| ddvValidTo |  |
| ValidFrom |  |
| ValidTo |  |
| ModifiedDate |  |

### Vaccines

<vaccines:vaccines xmlns:vaccines="http://nsi.dk/-/stamdata/3.0/ddv" xmlns="http://nsi.dk/-/stamdata/3.0/ddv">

<VaccineIdentifier>1617209100</VaccineIdentifier>

<VersionID>1</VersionID>

<ATCCode>J07AC01</ATCCode>

<ATCText>Anthrax antigen</ATCText>

<ShortDescription>Anthrax antigen</ShortDescription>

<AllowCitizenSelfRegister>0</AllowCitizenSelfRegister>

<AllowBulkRegister>0</AllowBulkRegister>

<Keywords/>

<SearchBoost>1.000</SearchBoost>

<ddvModifiedDate>2010-05-03 02:31:54.0</ddvModifiedDate>

<ddvValidFrom>2002-09-01 00:00:00.0</ddvValidFrom>

<ddvValidTo>2010-06-23 12:00:00.0</ddvValidTo>

<ValidFrom>2012-12-11T12:04:17.000Z</ValidFrom>

<ValidTo>2999-12-31T00:00:00.000Z</ValidTo>

<ModifiedDate>2012-12-11T12:04:17.000Z</ModifiedDate>

</vaccines:vaccines>

|  |  |
| --- | --- |
| XML tag | Beskrivelse |
| VaccineIdentifier |  |
| VersionID |  |
| ATCCode |  |
| ATCText |  |
| ShortDescription |  |
| AllowCitizenSelfRegister |  |
| AllowBulkRegister |  |
| Keywords |  |
| SearchBoost |  |
| ddvModifiedDate |  |
| ddvValidFrom |  |
| ddvValidTo |  |
| ValidFrom |  |
| ValidTo |  |
| ModifiedDate |  |

### Vaccines\_Drugs

<vaccines\_drugs:vaccines\_drugs xmlns:vaccines\_drugs="http://nsi.dk/-/stamdata/3.0/ddv" xmlns="http://nsi.dk/-/stamdata/3.0/ddv">

<VaccineIdentifier>1617207178</VaccineIdentifier>

<VersionID>1</VersionID>

<DrugIdentifier>32115313023</DrugIdentifier>

<DrugName>Dukoral</DrugName>

<ddvModifiedDate>2010-05-03 02:31:54.0</ddvModifiedDate>

<ddvValidFrom>2002-09-01 00:00:00.0</ddvValidFrom>

<ddvValidTo>2010-05-04 00:00:00.0</ddvValidTo>

<ValidFrom>2012-12-11T12:04:17.000Z</ValidFrom>

<ValidTo>2999-12-31T00:00:00.000Z</ValidTo>

<ModifiedDate>2012-12-11T12:04:17.000Z</ModifiedDate>

</vaccines\_drugs:vaccines\_drugs>

|  |  |
| --- | --- |
| XML tag | Beskrivelse |
| VaccineIdentifier |  |
| VersionID |  |
| DrugIdentifier |  |
| DrugName |  |
| ddvModifiedDate |  |
| ddvValidFrom |  |
| ddvValidTo |  |
| ValidFrom |  |
| ValidTo |  |
| ModifiedDate |  |

# Ændringslog

Kilden til dette dokument kan findes på:

<https://github.com/trifork/sdm4-vaccinationimporter/blob/master/doc/Loesningsbeskrivelse_v1.0.docx>

| Version | Dato | Ændring | Ansvarlig |
| --- | --- | --- | --- |
| 1.0 | 2012-09-11 | Initiel beskrivelse | Trifork  (Kjeld Froberg) |