E&M Database implementation details for CPR Broker

Database views

Database object name	Name in code	Usage
dbo.JY64000V	Citizen	Most citizen data
dbo.JY64200V	Child	Children retrieval
dbo.AA73000V	Road	Road name retrieval
dbo.JY64401V	HousePostCode	Post code and district
dbo.AA73400V	HouseRangePostCode	Post code and district
dbo.AA74000V	Authority	Birth registration authority

Assumptions

The implementation code takes some decisions based on a few assumptions. This section describes these decisions.

RegisterOplysningType

The object contained in the Item element will differ based on field LANK_KODE in JY64000V

- 5100 (Denmark) will return a CprBorgerType object.

- 0 (Null), 5999(Unknown), 5103 (Stateless), 5102 (Adbroad), 5001 (Reserved) will return a UkendtBorgerType object.

- All other country codes will return a UdenlandskBorgerType object.

Suggested change

It seems that all citizens in the database have full details and Danish addresses. Since the CprBorgerType contains a field for nationality (PersonNationalityCode), we suggest that we always return CprBorgerType regardless of the nationality.

UdenlandskBorgerType

The CPR number will always be in element PersonCivilRegistrationReplacementIdentifier. The elements FoedselslandKode (birth nationality), PersonIdentifikator and SprogKode (language code) will always be null.

Population Address

The addresses returned in Item element of AdresseType will always be of type DanskAdresse-Type. This is returned in CprBorgerType.FolkeregisterAdresse. This means that citizens with a non Danish LAND_KODE will not have an address.

Please see Suggested change for a possible fix.

Null Address fields

The following fields of DanskAdresseType will always be null : AddressPoint, NoteTekst, Poli-tiDistriktTekst, SkoleDistriktTekst, SocialDistriktTekst, UkendtAdresseIndikator, SogneDistrikt-Tekst, ValgkredsDistriktTekst

The following fields of AddressPostalType will always be null: DistrictSubdivisionIdentifier, MailDeliverySublocationIdentifier, PostOfficeBoxIdentifier.

Road name

A few roads are repeated in the view AA73000V. In this case, the row with highest RoadEndDate (VEJ_OPHOR_TS) is used to get the road name and addressing name.

Special road code

It is assumed that special road code (SpecielVejkodeIndikator) means a high road code (9900-9999)

AndreAdresse

The element EgenskabType. AndreAdresse will always be null.

Date uncertainty

Most of the dates have uncertainty flags. The date value is assumed known and certain if the flag has a value of ' ' (empty period)

Gender

Although the PART standard allows for the unspecified gender, it is assumed that KON (Gender) field will always have either 'K' or 'M'. An exception is thrown otherwise.

CivilStatusType

Since there is no civil (marital) status for dead people in the PART standard, a dead person will always have his CivilStatusType. CivilStatusKode = CivilStatusKodeType. Ugift.

LivStatusType

A person with a false birth date uncertainty flag and a civil status other than 70 and 90 is assumed to be not born yet and will have its LivStatusType.LivStatusKode = LivStatusKodeType.-Prenatal.

Also, a person with a false civil registration status uncertainty date will have his LivStatusType. TilstandVirkning as an open interval (on both sides)

Church membership

Membership of Danish national church are identified by the value 'F' in column JY64000V.-FOLKEKIRK_TILH_MRK. All other values ('U', 'A, 'M', 'S') are assumed to mean a non member.

Zero CPR Number for related persons

When filling relationships (RelationListeType), the CPR number for a related person is sometimes zero where is should not be. In this case, the array of relationships (PersonRelationType) is created with zero elements. This is the case in

- RelationListeType. Fader - when FatherPNR (PERSONNUMMER_FAR) is zero

- RelationListeType.Moder - when MotherPNR (PERSONNUMMER_MOR) is zero

- RelationListeType. Aegtefaelle - when SpousePNR (PERSONNR_AGTEFALLE) is zero and CivilStatus is 'G','F' or 'E'.

- RelationListeType. RegistreretPartner - when SpousePNR (PERSONNR_AGTE-FALLE) is zero and CivilStatus is 'P','O' or 'L'.