

SMDB Developer

API updates summer 2026 developer guide

Danmarks Statistik

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Chapter 1

Introduction

The schema changes which go into effect on the 1st of July 2026 are kept small on purpose, after a few years with larger changes. Besides describing the change in the context of a developer, it also contains information on understanding and handling schema changes in general. This extra information is intended to eventually be included in a more complete developer guide document, which is why it covers more than is strictly needed. We still recommend reading through the entire document, since it contains information which is likely to help you make better decisions.

1.1 Purpose of this guide

On the 1st of July 2026, a minor schema change will go into effect. This document intends to introduce developers responsible for integrating with SMDB how to handle this.

As with previous developer guide it is assumed that the reader is familiar with integrating with SMDB in general, using one of the 2 equivalent SOAP based APIs. This document does not contain all information needed to implement a new integration from scratch. It is a companion document to the code lists found on the [main SMDB information page](#) and the specifications found under SMDB on the [guide page for implementation](#).

1.2 API versions

This guide generally uses terminology assuming you as a developer is integrating using the API V1. When mentioning that having a value be null in API V1 corresponds to leaving it out completely in API V0. The **StofOplysningerDTO** does not exist as a type in V0, but is handled by having generic fields with the name of each field in the DTO, with a prefix indicating which drug the field is related to. As always we recommend using the more strongly typed V1 of the API.

1.3 The use of bold and italics

We use italics and bold to differentiate between objects and fields on objects, when referring directly to data. It may also be used to simply highlight normal words, where the context makes it clear that it does not indicate an object or field.

For example the schema **IvaerksaettelseDTO** has the field *FentanylOplysninger*, which is an object of type **StofOplysningerDTO**.

Chapter 2

Regarding schema changes in general

2.1 Schema versions

Schema changes in SMDB will generally follow these common rules:

Multiple versions There are several versions of many of the schemas. These multiple versions are all handled through the same DTO, but the SMDB backend will run different validations on the DTO, depending on which version of the schema the DTO represents.

Which version Which version of a schema is used, depends on *BehandlingAnmodningDato*, on **AnmodningDTO** which is the basic DTO for the schema structure.

Add/remove field Changes may include adding or removing new fields. New fields should be left as null for previous versions of the schema. Removed fields should conversely be left as null for the new version of the schema.

Wrong version If the **AnmodningDTO** has related schemas, the *BehandlingAnmodningDato* cannot be updated to a date which would need another version of already created related schemas.

Why The schema definitions are actually defined by Danish law, and because of that, they are affected by the rule that new laws cannot be used on old cases. Even though these are not legal cases as most readers would define it, it still is true that a treatment starting for example in 2017, will need all schemas for the case to be reported in the way the law in 2017 described them.

2.2 Consequences for not supporting all schema versions

This is very normal, and Danmarks Statistik does not demand or otherwise enforce full support. There is currently no way to retrieve the various schema definitions from the API, which would allow the different schemas versions to be automatically configured. Since not all previous versions of the specification documents are available currently, implementing all versions of the schemas can be very difficult if not impossible. Combined with less than clear communication regarding the above points, we are not currently aware of any external systems which correctly implement all previous versions of the schemas.

If your system does not support a specific version, there is always the option for users to use the SMDB website for those cases.

2.3 Schema version overview

We refer to the first date where a new version of the schema is active as the **threshold date**, or (**skæringsdato** in Danish). Here is an overview of all the schema versions and the dates where the new schema version becomes active. Since it is not possible to actually test validations for the new versions of the schema before the threshold date, they will be earlier on the preproduction environment, to allow time for testing on all future changes. As table 2.3 shows, this has not always been the case.

Threshold date	Date on preproduction	Schemas affected
July 1, 2010	July 1, 2010	1
January 1, 2016	January 1, 2016	1
July 1, 2019	July 1, 2019	4
January 1, 2023	January 1, 2023	3
January 1, 2024	January 1, 2024	1
January 1, 2025	November 1, 2024	1
July 1, 2025	February 5, 2025	3
July 1, 2026	May 4, 2026	1

Table 2.1: Threshold dates

As complete list of the exact changes at each previous threshold date is beyond the scope of this document. We hope to write a complete description in a single document at some point in the future.

2.4 Implementation and deployment process

Since all previous versions of the schemas are technically valid going forward, and version handling is managed by evaluating the **AnmodningDTO**.*BehandlingAnmodningDato*, we are able to introduce a future version of a schema without needing to coordinate a deployment that coincides with the threshold date. We prefer to deploy the updated version as soon as we are able to get the acceptance of all external integrations. To support this we also try to deploy the update on the preproduction environment as early as possible.

Chapter 3

Schema changes on July 1, 2026

3.1 Removing DageIndtagetSenesteMaanedKvantitet from main drug

On the current version of the schema *Iværksættelse*, defined as *IværksaettelseDTO* in the API, there is redundant information. Recently a range of input fields for each individual drug type was removed, leaving only the number of days each drug was used within the last 30 days. There was also introduced additional input fields regarding the main drug, including the number of days it was used within the last 30 days. This means that the user¹ is able to select a specific main drug, and then not only has to fill out the same information twice, but is potentially able to enter different values for the same information. For this reason the input field on the main drug will be expected to be null for all cases starting on or after July 1, 2026.

DageIndtagetSenesteMaanedKvantitet must be null (or left out in API v0) for all cases starting after the threshold date on *HovedstofOplysninger*.

3.2 StofOplysningerDTO

On the *IværksaettelseDTO* there are a number of *StofOplysningerDTO*², each describing use of a specific drug, including a slightly different one conceptually named *HovedstofOplysninger* which describes the chosen main drug in the field *PersonAktueltHovedstofKode*. The DTO has 5 different fields, where 4 was recently removed³ from all the DTOs except the one describing the main Drug.

The main drug *StofOplysningerDTO* has slightly complicated validations, since it can be used to describe different drugs, where some possible choices are not valid for the chosen main drug type. Other specific validations for the various uses of this DTO is out of scope for this document, but can be found through the code lists referenced in [1.1](#).

¹For our system the word *user* can be a bit unclear, since there are users of the IT systems entering data about drug users. To keep it as clear as possible *user* will always refer to a user of your IT system, and direct references to drug users are avoided.

²Translating to *Drug Information DTO*

³*Removed* here not meaning actually gone from the DTO, but expected to be null for all new cases going forward, as described in [2.1](#)

Xml 3.1 shows the *StofOplysningerDTO* from the v1 of the API, which shows that the field *DageIndtagetSenesteMaanedKvantitet* is not currently nullable, meaning that it must be filled out for both the *StofOplysningerDTO* for all specific drugs, and the *StofOplysningerDTO* for the main drug, which is intended to provide additional information for that specific drug.

```

1 <complexType name="StofOplysningerDTO">
2   <sequence>
3     <element minOccurs="0" name="DageIndtagetSenesteMaanedKvantitet" nillable="true" type="int"/>
4     <element minOccurs="0" name="FoersteBrugAlderKvantitet" nillable="true" type="int"/>
5     <element minOccurs="0" name="FoersteBrugAlderVilIkkeOplyseIndikator" nillable="true" type="
6     boolean"/>
7     <element minOccurs="0" name="IndtagelseshyppighedKode" nillable="true" type="string"/>
8     <element minOccurs="0" name="TypiskIndtagelsesmaadeKode" nillable="true" type="string"/>
9   </sequence>
</complexType>

```

Xml 3.1: *StofOplysningerDTO* including the change described in this document.

StofOplysningerDTO uses and changes

The threshold dates (2.3) mentioned in the sections below, are from the production environment. Each section has information on the main drug *HovedstofOplysninger* and all other drug types combined in **Oplysninger*.

Before July 1, 2025

HovedstofOplysninger Main drug was introduced on this threshold date, and the entire DTO must be null (or all generic values starting with "Hovedstof" left out in API v0).

**Oplysninger* The full DTO must be filled out⁴.

Between July 1, 2025 and July 1, 2026

HovedstofOplysninger The full DTO must be filled out⁴.

**Oplysninger* Only the *DageIndtagetSenesteMaanedKvantitet* field can have a value. All other fields must be null. *AlkoholOplysninger* and all DTOs with the prefix "Ordineret" must be null⁵.

After July 1, 2026

HovedstofOplysninger The full DTO must be filled out⁴, except *DageIndtagetSenesteMaanedKvantitet* which must always be null.

**Oplysninger* Only the *DageIndtagetSenesteMaanedKvantitet* field can have a value. All other fields must be null. *AlkoholOplysninger* and all DTOs with the prefix "Ordineret" must be null. No changes from the previous version.

⁴The DTO does contain a field *FoersteBrugAlderVilIkkeOplyseIndikator*, which if true means that *FoersteBrugAlderKvantitet* must be null. This nuance is ignored when using the phrase "full DTO filled out".

⁵As part of removing prescribed drugs *PersonStoffriSenesteMaanedIndikator* was replaced by *PersonTagetIkkeOrdineredeStofferSenesteMaanedIndikator* for indicating if any drugs were used over the last 30 days. Note the reversal of the boolean, where *PersonStoffriSenesteMaanedIndikator* means that drugs were not used, and *PersonTagetIkkeOrdineredeStofferSenesteMaanedIndikator* means that drugs were used.

Chapter 4

Validation updates

When we occasionally make improvements to the schema validations, we do not usually send out information about it to integrating systems, since the changes will only fix differences from the specifications and generally should not affect external systems. This time we are including some specific validation improvements only tangentially related to the schema changes in the release, both since they affect related fields and because the change benefits from the extra explanation this handbook allows us.

We have identified some validations which have been left out for API calls due to an implementation error. There are not many new validations when counted, but since they affect some of the fields that have most often been changed between schema versions, it may introduce some complexity that have been hidden for external systems due to this error. To help navigate this complexity and evaluate the consequences, this chapter will go through both the actual validation rules and the history which dictate those rules.

All changes mentioned here are on data elements on the **IvaerksaettelseDTO**.

4.1 Validation on *PersonAktueltHovedstofKode*

The validation on the field *PersonAktueltHovedstofKode* has been identified to not be sufficient. Since the validations are a bit different across the various versions of the schema, we will go through the rule changes at different threshold dates in this chapter, so make it clear which values are valid and which boolean indicators affect the field. We should start by ensuring we understand the meaning of the field though.

PersonAktueltHovedstofKode translates to *current main drug code* and, as the name indicates, defines which drug is seen as the "main" or "primary" drug being offered treatment for.

Valid values for *PersonAktueltHovedstofKode*

First let's review all acceptable values for the field, including at which threshold date (see [2.3](#)) they were introduced and removed. Note that we also include name changes. Since only the code value is used to communicate choices, this does not affect the validation directly, but helps you display the expected values correctly. These are shown in table [4.1](#).

Value	Meaning	Added	Removed
02	Metadon (Illegal)		July 1, 2025
02	Metadon	July 1, 2025	
08	Heroin (Illegal)		July 1, 2025
08	Herion	July 1, 2025	
20	Tramadol	January 1, 2024	
21	Oxycodon	January 1, 2024	
22	Fentanyl	January 1, 2024	
07	Andre Opiater		
04	Buprenorphin (Illegal)		July 1, 2025
04	Buprenorphin	July 1, 2025	
06	Benzodiazepiner (Illegal)		July 1, 2025
06	Benzodiazepiner	July 1, 2025	
11	Amfetamin		
10	Kokain (Illegal)		January 1, 2023
17	Metamfetamin	January 1, 2023	
18	Kokain (pulver)	January 1, 2023	
19	Kokain (crack)	January 1, 2023	
12	Ecstasy og lign		July 1, 2025
12	Ecstasy	July 1, 2025	
14	Hallucinogener		
13	Hash/cannabis		
15	Opløsningsmidler (inhalanter)		
16	Andre stoffer		

Table 4.1: *PersonAktueltHovedstofKode* values over time

Changes to *PersonAktueltHovedstofKode*

Here we group the changes by the threshold date and explain the reason for the changes.

January 1, 2023	Add <i>Metamfetamin</i> and split <i>Kokain</i> into two new types.
January 1, 2024	Add 3 new drug types, and remove dependency on <i>PersonStoffriSenesteMaanedIndikator</i> .
July 1, 2025	All prescribed drugs removed from reporting, so we removed the now superfluous suffix "illegal".

Dependence on *PersonStoffriSenesteMaanedIndikator*

Before January 1, 2024 the fields *PersonAktueltHovedstofKode* and *PersonHovedstofAngivelseIkkeMuligIndikator* should be null if *PersonStoffriSenesteMaanedIndikator* is set to true. This basically should be understood as "if the citizen has used no drugs over the last 30 days, there is no main drug". In this version of the schema, there must be entered a number [1-30] for the drug chosen as the main drug (but not in the *HovedstofOplysninger*, which was not introduced yet in this version). This was changed on January 1, 2024 where information on the main drug was

decoupled from *PersonStoffriSenesteMaanedIndikator* and the data entered for the drug. After this date *PersonAktueltHovedstofKode* only depends on *PersonHovedstofAngivelseIkkeMuligIndikator*, which translates to "Main drug can not be defined".

4.2 Validation on Non Main Drug *DageIndtagetSenesteMaanedKvantitet*

For cases before July 1, 2024 we also ensure that there is a number of days [1-30] in *DageIndtagetSenesteMaanedKvantitet* for the drug type set as the main drug for those cases. Note that it is not enforced for cases that start on or after July 1, 2024.

For this version of the schema there was no *HovedstofOplysninger*, so information for the main drug was effectively entered through the information for the specific drug that corresponded to the drug type entered in *PersonAktueltHovedstofKode*. For example, if *PersonAktueltHovedstofKode* indicates that the main drug is "Metamfetamin", a validation will trigger that *MetamfetaminOplysninger.DageIndtagetSenesteMaanedKvantitet* must be entered and valid ([1-30]).

This rule was removed on July 1, 2024 where the *HovedstofOplysninger* object was introduced. Even though we are now expecting null in *DageIndtagetSenesteMaanedKvantitet* on the *HovedstofOplysninger* object, we are not reintroducing the validation that the number must be filled out in the corresponding *DageIndtagetSenesteMaanedKvantitet* as described above, for new cases.

4.3 Validation Change Summary

The improvement to our validations will mean that users are no longer allowed to send in some invalid combinations of data, which were previously accepted as valid. Combined with the historic lack of clear communication about how schema versioning works, we are aware that this may mean that some existing cases can no longer be validated. It may also mean that some implementation changes are necessary.

We have the impression that the changes absolutely needed to external systems will be minimal, as long as the returned validation errors are displayed clearly to the user.

PersonAktueltHovedstofKode Our validation for the values seen in table 4.1 will be improved to better fit the definition for the various versions of the schema. Detailed validation errors will explain to the user if a value which is no longer or not yet available is selected.

PersonStoffriSenesteMaanedIndikator We improve validations for the dependence on *PersonStoffriSenesteMaanedIndikator* for cases starting before January 1, 2024.

HovedstofOplysninger We now validate that this DTO is null, for cases starting before July 1, 2025. For API v0 all generic fields describing Hovedstof should be left out. We previously allowed sending this in for earlier versions of the schema.

Non Main Drug StofOplysningerDTO For only cases before July 1, 2024 the days used for a drug must be filled out, for the drug type set as the main drug type in *PersonAktueltHovedstofKode*.

Chapter 5

Deployment plan

Due to a combination of factors, there will be less time between having the updated API on the preproduction and the deploy to production. This is not something we do gladly, but see as acceptable due to the very small schema change. Specifically we hesitate to move up updating the NemLog-in certificates used by external integrations, which will happen late April 2026, since we are in a sensitive period for approving data from users, who will also need a stable system. We are trying to minimize how many users issues with this certificate change will affect. We hope this does not introduce problems for you as a developer or planner, but you are always welcome to contact us if you need help or have questions. Until then, we hope this document, and the included wsdl-definition file will help you in your work.

5.1 Deploy dates

These dates are subject to change, which will be communicated out directly to all known external integrations.

Environment	Expected deployment date	Threshold date
Preproduction	May 1, 2026	May 4, 2026
Production	June 8, 2026	July 1, 2026

Table 5.1: Estimated deployment dates