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6.8	26-10-2022	Steffen Skovsgaard Jensen	Draft	<p>Updated hyper-links for codelists and removing information about DAFGateway being deprecated.</p>

References

Reference	Title	Author	Version
Grunddatamodel	The datamodel for Grunddataprogrammet http://grunddatamodel.datafordeler.dk/		
D0180 Internal	D0180 – Integration Design – Internal – Final	Netcompany	1.0
Besked-Aflever-Snitflade	https://share-komm.kombit.dk/p089/Referencedokumenter/Beskedfordeler%20version%203.1.zip	KMD	1.2
DAF Gateway Schema	JSON Schema of objects returned by DAF Gateway (available in SWGAppendix.zip file)	Netcompany	1.0
SOAP services WSDL	WSDL files for SOAP based services on SWG (available in SWGAppendix.zip file)	Netcompany	2.1
Codelist Schema	JSON Schema of objects returned by Codelist service (available in SWGAppendix.zip file)	Netcompany	1.0

Integration Handbook	BBR ServiceGateway Handbook	Netcompany	1.0
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1 Introduction

The purpose of this document is to describe all services the BBR system exposes to external systems via BBR Service Gateway. The target audience is external partners and vendors that need to integrate with the BBR system via the described services. The systems that consume the described services will be referenced as “Client”.

For information about non-external services and the interfaces that BBR consumes see [D0180 Internal].

This document contains specifications for the services exposed. For a guide on how to get access to the services, how to connect to test and production environments, and how to implement the different security models, see the [Integration Handbook] document.

1.1 About BBR and BBR ServiceGateway

BBR is the Danish registry for Buildings and Residences. The registry is owned by the Danish tax authority (SKAT) and the data is maintained by the municipalities. The BBR ServiceGateway (SWG) is the part of the BBR system that exposes web service interfaces for external systems, as illustrated in the figure below.

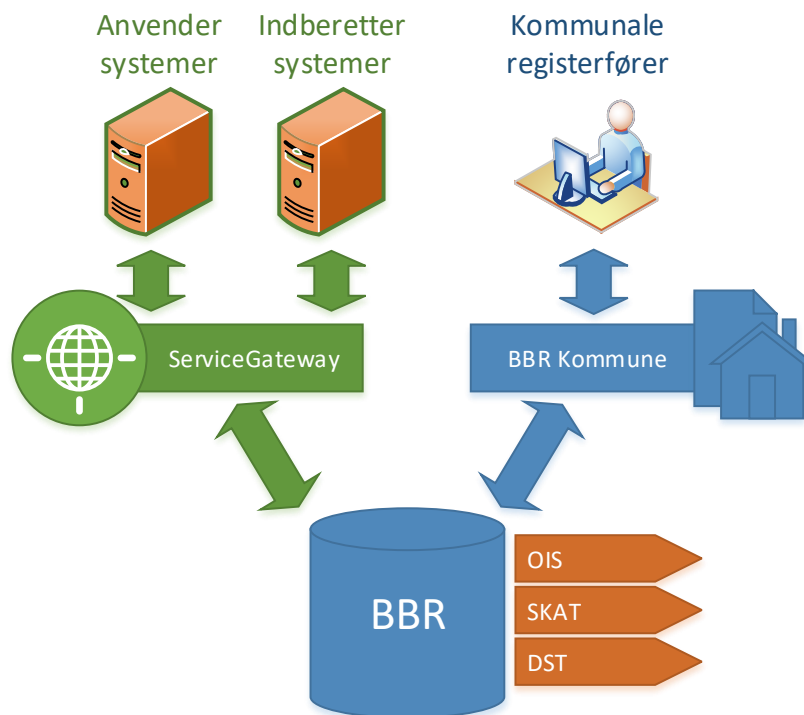


Figure 1 - BBR servicegateway context

The majority of the data in BBR is maintained by registry operators in the individual municipalities, using the BBR Kommune web based system. When external systems want to integrate with BBR, this is done via the BBR SWG.

As the BBR data in the registry is maintained by each municipality individually, all data is segmented by municipality (Kommune), and thus most service calls on SWG require specification of “Kommunekode” – a code that identifies the municipality.

The services on BBR SWG can be divided into three basic groups, which is illustrated in the following figure. The service specifications in this document are also divided into these three groups.

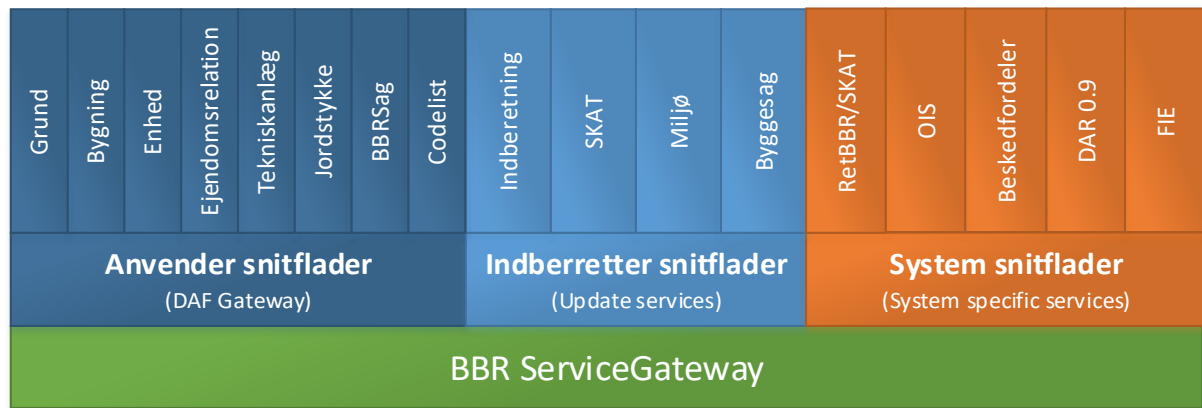


Figure 2 - BBR SWG service groups

The groups are defined by the following characteristics:

Service group		
Anvender snitflader (DAF Gateway)	Usage	Querying and reading current BBR data
	Clients	Any public or private system that needs to read BBR data for any given usage
	Security	API-key – as described in chapter 2.1
Indberetter snitflader (Update services)	Usage	Updating specific BBR data or posting data to BBR for a specific purpose
	Clients	Any systems that needs to write data to BBR
	Security	SAML token – as described in chapter 2.3
System snitflader (System specific services)	Usage	Services designed for one specific client and one specific purpose
	Clients	Specific individual clients
	Security	Defined per service in agreement with the given client

1.1.1 Datafordeleren (DAF)

As part of Grunddataprogrammet (GD) the BBR data is exposed on the Datafordeler (DAF) along with all other data from the GD registries. This means, when a notice has been given that DAF is running as expected, the 'Anvender systemer' should be querying and reading current BBR data from DAF instead of the BBR ServiceGateway. The services on DAF will offer the same content and the structure of the response is based on the DLS specifications as the response from the ServiceGateway. For more information see section [3.1](#).

1.2 BBR Data models

All services operate mainly with objects and properties from the BBR datamodel. The SWG services generally expose two kinds of BBR data:

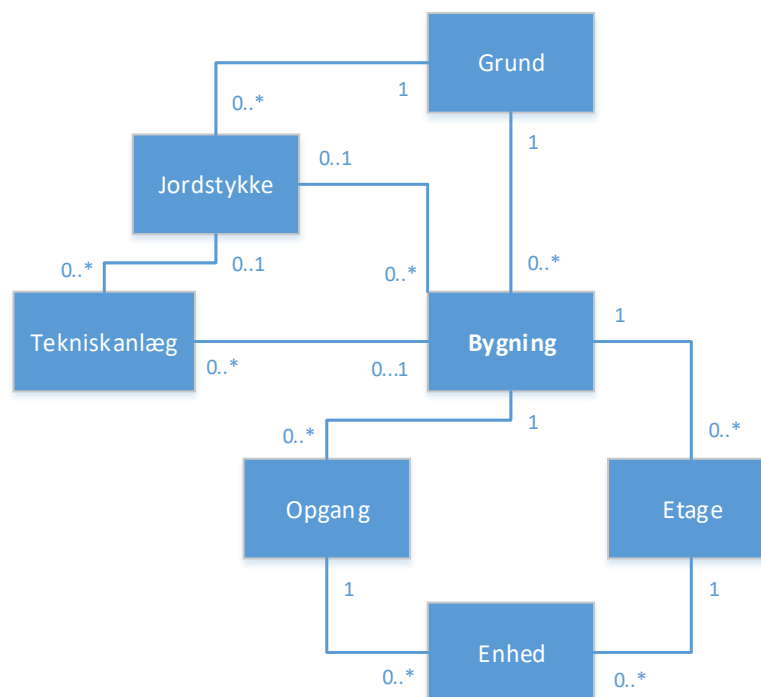
- **BBR Master data** – which represents the BBR data that is legally valid and current, and should match the real world at any given time
- **BBR Case data** – which represents future or potential data or data changes that are either projected or under construction

This section provides a general description of the data models used for both these kinds of data.

BBR is part of the Basic Data Programme (Grunddataprogrammet). For documentation about the individual BBR datamodel objects, the overall models in the programme, and how BBR refers to data from other systems, see [Grunddatamodel].

1.2.1 BBR Master data

An overview of the main entities from the BBR datamodel and their relations can be seen in the following figure.



The BBR datamodel can be considered as a hierarchy. The top-level element is the Grund (Site) object. All objects in BBR are placed on a Grund, and each Grund object contains its own BBR hierarchy tree. Each Grund is segmented into Jordstykke (Land parcel / land plot) objects. The business definition of this top part of the BBR hierarchy is that a Grund contains all Jordstykke objects that are:

1. Part of the same property (by ownership)
2. Geographically connected

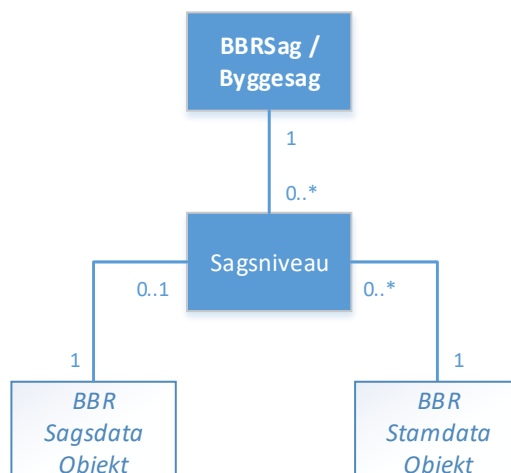
The central and probably most important object in BBR is Bygning (building). All buildings are placed on a Grund, and with the exception of very few buildings that are placed on water, also on one of the Jordstykke objects that are part of the Grund.

Larger buildings can be divided into Enhed (unit) objects, typically representing apartments or businesses. This is done by segmenting the building horizontally into Etage (floor) and vertically into Opgang (Entry/hallway) and then placing Enhed object in this “matrix”.

Finally, BBR also contains Tekniskanlæg (Technical installation) objects, which can represent everything from oil tanks, windmills and antennas, to playgrounds and swimming pools. Tekniskanlæg can be placed either on a Jordstykke or in a Bygning.

1.2.2 BBR Case data

BBR Case data represents future or potential data or data changes that are either projected or under construction. The general data model for BBR case data is shown in the following figure.



BBR Case data is always grouped together via a BBRsag/Byggesag (case) header object. The case header contains all the metadata about the case. The case consists of a number of Sagsniveau (case levels), where Sagsniveau represents constructions (create), re-construction (edit) or deconstruction (delete) of a BBR Master data object. The Sagsdata and Stamdata (masterdata) objects connected to the case are always of the same BBR object type, e.g. Bygning.

The sagsdata BBR objects are delta-objects, meaning that they only contain the data that will potentially be changed on the master data, if/when the case is finalized. For Sagsniveau objects that are Nybyggeri (construction/create) the Sagsdata and Stamdata objects are the exact same object.

While there are many business rules for constructing case object hierarchies, the main one is that each case **MUST** contain at least one Bygning, Grund or Tekniskanlæg case object, and that there can never be more than one Grund or Bygning object in a case.

1.2.3 Property (Ejendom) in BBR 2.0

In BBR 2.0 the relations between objects described in the previous chapters always describe the physical placement of the objects. So e.g. the Grund and Jordstykke relations of a Bygning are the Grund/Jordstykke that the building is physically placed on in the real world. That means that if a business case is to extract all the BBR objects that are part of a given Ejendom, you have to perform a different query logic than what is described in the data model in the previous chapters.

BBR 2.0 supports multiple definitions of Ejendom. This is done via the Ejendomsrelation object, which is named as it is because it describes the relationship between the different types of property. It contains all the different business keys for Ejendom. In previous versions of BBR, the ESR-ejendomsnummer (kommunalt ejendomsnummer) was used as the sole property number, but from BBR 2.0 and onwards, the BFE number from the Grunddataprogram will be used as property number instead. In an interim period BBR (starting May 2019), both property numbers will be supported by BBR's interfaces.

Ejendomsrelation

- Ejendomsnummer
- Kommunekode
- BFE
- Vurderingsejendomsnummer

Ejendomsnummer: The old municipal Ejendomsnummer from ESR (kommunalt ejendomsnummer)

Kommunekode: The municipality

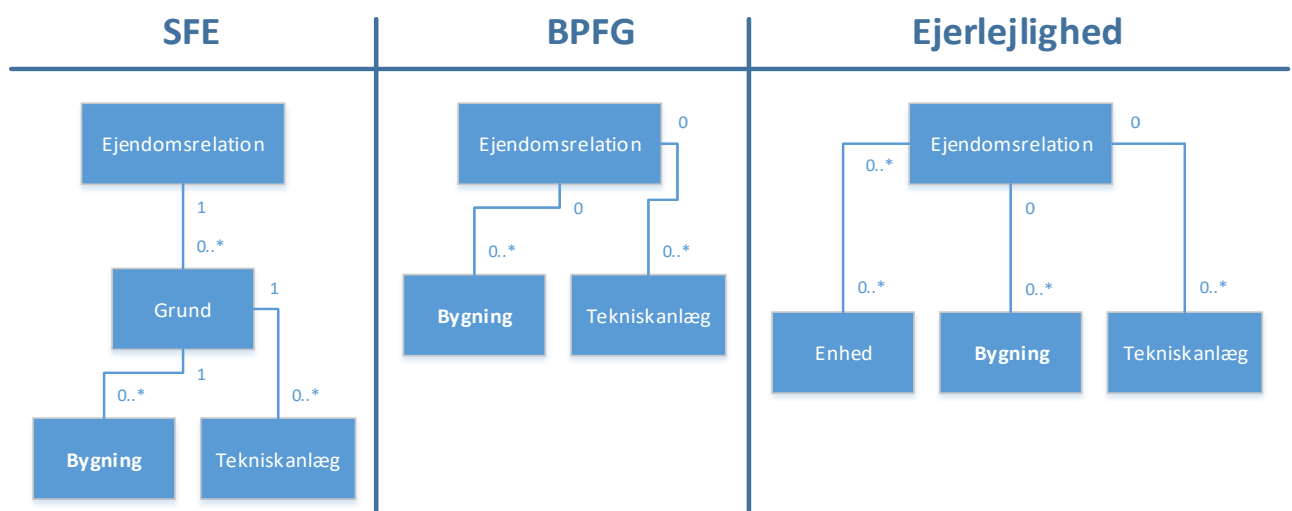
BFE: The property number introduced by Grunddataprogrammet I 2019.

Vurderingsejendomsnummer: The future number for a vurderingsejendom, which is supplied by Vurderingsstyrelsen.

There are 3 different kinds of Ejendom in BBR:

- **SFE** – This is a normal Ejendom where the land and everything placed on it is part of the same Ejendom
- **BPFG** – A building or a Tekniskanlæg that has different ownership than the land it is placed on
- **Ejerlejlighed** – Condominiums, are typically Enhed but can also be a Bygning or Tekniskanlæg

This Ejendomsrelation object is related to the BBR objects, and based on these relations it can be determined which objects are part of the given property. The relations to examine are determined by which type of Ejendom, as seen in the figure below.



Given this data structure that means that if a system queries all objects on a given Grund, any objects that have a separate relation to Ejendomsrelation are NOT part of the same Ejendom as the Grund.

1.3 BBR Services Error handling

BBR services work synchronously, meaning that if an error occurs in a service provided by BBR, the client will be notified by receiving an error code representing the error. All errors (incl. technical details) are furthermore logged. In case of unexpected critical errors, Netcompany is automatically notified.

1.4 BBR Services Validation

If the client intends to use the Update services to write data to BBR, it is important to understand how changes are validated. BBR validates objects prior to update with a validation engine that executes business rules checks on the updated object. The validation can have three outcomes:

- No validation warnings/errors
- Validation warnings

- Validation errors (and warnings).

If there are no validation messages, the update goes through. If there are errors, the update is blocked and errors are returned so they can be resolved before retrying.

For warnings, two options are available: the issues can be resolved (as for errors) or the warnings can be ignored. To ignore validation warnings, a flag on appropriate request messages needs to be set (IgnoreWarnings).

1.5 Linking to BBR Kommune

This chapter describes how to make deep links to BBR Kommune frontend. In order for the link to work, it requires that:

1. The end user is logged into BBR Kommune, or can login to BBR Kommune
2. The end user has access to the given municipality that the linked object belongs to
3. The end users session in BBR Kommune is currently set to work within the given municipality

1.5.1 Links to BBR objects

Links directly to BBR objects are formatted as follows:

`https://[host]/#!/bob/[OBJECTTYPE]/[ID]`

The [host] part is the URL for BBR Kommune frontend on the given environment. For production this is:

<https://kommune.bbr.dk/>

The [OBJECTTYPE] is the abbreviation for the given object type, the following are supported:

GRU – For Grund objects
MAT – For Jordstykke (Matrikel) objects
BYG – For Bygning objects
TEK – For Tekniskanlæg objects
OPG – For Opgang objects
ETA – For Etage objects
ENH – For Enhed objects
SAG – For Byggesag/BBRSag objects

The [ID] is the UUID for the object.

Examples:

<https://kommune.bbr.dk/#!/bob/BYG/0a0e0dd2-37cd-4c10-be6f-997b79836a1e>

<https://kommune.bbr.dk/#!/bob/GRU/52567930-4d4e-4988-b23d-0aabdd00ff91>

<https://kommune.bbr.dk/#!/bob/MAT/735b2b25-2b0f-4a2c-91a2-dfa2291d1314>

1.5.2 Search links

Search link initiate a search in BBR Kommune and the end user will see the results of the search. They are constructed as follows.

`https://[host]/#!/bob/?searchById=[searchKey]&searchtype=[searchType]`

The [host] part is the URL for BBR Kommune frontend on the given environment. For production this is:

<https://kommune.bbr.dk/>

The [searchType] parameter supports the following values:

Ejendomsnummer – For search by ESR property number

BFE – For search by BFE property number

The [searchKey] parameter is the input parameter to the search. Full example:

<https://test.bbr.dk/#/bob/?searchById=200299&searchtype=Ejendomsnummer>

1.6 Operating Status subscription/unsubscription

This service makes it possible to sign up an email in order to get a notification by mail if an operating status is created. The service consists of the informations *Oprettelsestidspunkt (datetime)*, *ActivationToken (GUID)* og *Active (Bool)*

To do so, you can go to the login page where it is possible to choose which login you want to use.

You need to write the mail you want to sign up to receive the notifications, and hit the button 'Tilmeld'.

The image below shows how it looks like on the login site.



Til- og afmelding for automatisk advisering via e-mail om nye driftsstatuser for BBR.

For tilmelding, indtast en gyldig e-mailadresse og tryk 'Tilmeld'. For afmelding, indtast en gyldig e-mailadresse, der tidligere er tilmeldt denne service, og tryk 'Afmeld'. Vær opmærksom på små og store bogstaver i din indtastning.

Indtast din e-mail

Tilmeld **Afmeld**

The mail which was signed up will receive an email with an activation link in order to validate the mail. This needs to happen within 24 hours.

In order to unsubscribe the notifications, the user must write an e-mail in which is subscribed(signed-up) and hit the button 'Afmeld'.

The mail that is getting unsubscribed will receive a verification mail, where the user needs to click on a deactivation link within 24 hours.

2 Security models

This section describes security models used by BBR Service Gateway. The models can be used together for a service, for example: Client Certificate and IP Whitelist (optional). Security models are specified for each service in their respective chapters.

2.1 API Key

API Key security model can be used for REST services. It bases on providing a client-specific token that will be used in the request URL, for example:

<https://service.com/endpoint?apikey=TLWITDhoabPvbO6WgsMa27qmZslmApK3mm7c804E¶meter1=test...>

All services that use API Key security must be exposed using SSL to prevent third parties from intercepting the traffic and the API Key. The key uniquely identifies client and allows monitoring of requests and system load generated. It is possible to disable a specific API Key (and thus disabling access for a client) or add new ones.

The API Key must be kept as a secret between Netcompany and service client – it cannot be shared between clients to gain access.

Netcompany must provide service client a valid API Key prior to calling the service.

Please refer to [Integration Handbook] for more information on how to connect to a service using API Key security model.

2.2 Client Certificate

Client Certificate security model requires each service request to include a X509 Certificate. BBR Service Gateway will verify if the certificate is valid and compare it with a certificate stored locally. If the certificate won't be present, valid or won't match the local certificate, an appropriate error code will be returned (HTTP 403 - Forbidden).

Service client must exchange the client certificate with Netcompany prior to calling the service.

Please refer to [Integration Handbook] for more information on how to connect to a service using Client Certificate security model.

2.2.1 Scope selection

BBR has two different kinds of client certificate services:

- Services with a hardcoded scope for a single specific external system.
- Services with a variable scope for multiple external systems.

Services with a hardcoded scope do not require the external client to specify a scope.

Services with a variable scope require clients to specify which scope they wish to use in the given service call. All services with a variable scope have a ClientCertScopeDto object in the request payload, where this must be provided.

BBR validates that the ClientCertScopeDto object defines a scope that the external system has sufficient rights to use. There are no business level error codes for this validation. If validation fails the failure will be logged and the client will receive a web service exception.

ClientCertScopeDto

Name	Type	Description
UseGlobalScope	Boolean	True if the service call should be performed with a global scope.
AccessClassifiedData	Boolean	True if the service call should be able to perform CUD-operations on classified data.
Kommunekode	String	Contains the municipality code.

2.3 STS (SAML Token)

NemLogin Security Token Service is responsible for handling access rights to services exposed with this security model. Before each service call, call to STS must be made to obtain valid token. Each token carries claims identifying caller and access rights which are later on validated by service itself.

Managing NemLogin claims is handled through external system unrelated to Netcompany. To obtain the token from STS client needs to present its own WSC client certificate along with STS certificate that is used by NemLogin to sign their

response. Netcompany provides appropriate `wspEndpointID` and WSP certificate which is used to check signature of response as well as manages access rights to their services.

All services that use STS security will be specified either local or global scope. This means:

- **Global scope** – Any CVR number can apply for the BBR role. If the role is granted in Nemlogin, the client will have access to call this service for all data in BBR from all municipalities
- **Local scope** – Only Kommune CVR's can apply for the BBR role. If the role is granted in Nemlogin, the client will have access to call the service for data in the given municipality (determined by the CVR)

Please refer to [Integration Handbook] for more information on how to connect to a service using STS security model.

2.3.1 Scope selection

The token will carry each claim as a scope containing certain privileges (roles). Since a given user identity often will have many scopes that BBR will support, clients that use STS security model are expected by BBR to identify which scope they wish to use in the given service call. All services will have a `EffectiveScopeDto` object in the request payload, where this must be provided.

For more information on how to do this see [Integration Handbook].

2.3.2 UserIdentityService

To assist clients in scope selection provides a `UserIdentityService`, which clients can call before selecting a scope for the given service call. This service will parse the client token, and provide a list of the scope (claims) that BBR can accept for the given identity, in the same format that the BBR services expect to receive in the `EffectiveScopeDto` part of the requests.

Provider	Area	Value
BBR 2.0 (identical to BBR 1.8)	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	SOAP
	Security	STS (SAML Token)
	Address	Preprod: https://pp2-sg.bbr.dk/External/UserIdentityService

2.3.2.1 GetUserIdentity

The operation is used to get the `UserIdentity` including the available scopes that BBR supports, for a given client, with given claims in the SAML token.

There are no business level error codes for this service operation. The client will either receive a web service exception or a valid response.

2.3.2.2 Parameters

None in the payload, but must be called with a valid SAML token.

2.3.2.3 Output

The service will either returns a `StsUserIdentity` in the following structure.

StsUserIdentity

Name	Type	Description
EffectiveScopes	List<EffectiveScopeDto>	All the scopes that can be passed onto BBR as payload. An effective scope is always limited to 1 specific municipality. See EffectiveScopeDto table for details.

EffectiveScopeDto

Name	Type	Description
Kommunekode	string	The municipality code that this scope can be used for.
ScopeDto	ScopeDto	The ScopeDto that granted the permission to be effective in this municipality. See ScopeDto table for details.

ScopeDto

Name	Type	Description
CprIdentity	string	Contains CPR number from the SAML token if the UserType is <i>Person</i>
CvrIdentity	string	Contains CVR number if the UserType is not <i>Person</i>
Kommunekode	string	Contains the municipality code if the UserType is <i>Municipality</i>
SelIdentity	string	Contains the SE number from the SAML token
UserType	enum	Possible values: <i>System</i> <i>Municipality</i> <i>Authority</i> <i>Company</i> <i>Person</i>
Roles	List<string>	Contains the list of BBR roles/privileges that this scope has
IsMandate	bool	True if mandated scope (fuldmagt)

2.4 Security classified data

Some objects in BBR are security classified. Such objects will appear with blanked information in certain fields, unless the requesting user has the correct access rights. For external service users security classified information is only available for users with the “BeskyttetData/SecurityClassifiedData” privilege.

This privilege is assigned through the STS-administration module and as such, only users accessing through STS will be able to view security classified information. This means that the REST-version of DAF Gateway will never expose such data. Users wanting security classified data should instead use the SOAP-version of DAF Gateway with the correct privileges.

Updating security classified data is possible through both STS services and a subset of the client certificate services. When using an STS service, security classified objects can be updated only by users with the “BeskyttetData/SecurityClassifiedData” privilege. When using a client certificate service, security classified objects can be updated only by users that have been granted the ‘ClassifiedAccess’ privilege in BBRs internal client certificate permission list.

3 Anvender snitflader

This section describes the services that BBR SWG exposes for other systems the need to read current BBR data.

3.1 DAF Gateway

As part of Grunddataprogrammet (GD) the BBR data is exposed on the Datafordeler (DAF) along with all other data from the GD registries. The DAF exposes REST based query services where consuming system can request and join the data needed, regardless of the registry that the data originates from. Since BBR 1.8 went live prior to the DAF, the BBR ServiceGateway temporarily exposes similar REST services. The services broadly follow the DLS specifications from the DAF/GD programme, but they utilize the BBR ServiceGateway infrastructure and architecture.

For information on the data models the services use and how they are related see chapter 1.2.

Provider	Area	Value
BBR 2.0 (identical to BBR 1.8)	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	REST / JSON (GET)
	Security	ApiKey (token)
	Base URL	Preprod: https://pp2-sg.bbr.dk/External/DAFGatewayV4
	Format	SOAP
	Security	STS (SAML Token) – Local Scope
	Base URL	Preprod: https://pp2-sg.bbr.dk/External/DafSoapServices

All DAF Gateway services are REST / JSON (GET) and authenticated with ApiKey. ApiKey will be client-specific and can be requested from Netcompany. Classified data won't be exposed through DAF Gateway. All services will return an array of objects (depending on the query).

Results returned by the service are split into pages, a maximum of 100 objects per page can be returned. Clients may need to send several request to get a full response – page by page. To know if the page is the last one, one of following conditions must be met:

- Returned object count is less than page size
- Next page must be empty (empty array).

The service will always return objects that are valid at the point of time when the call was made (it cannot be used to obtain historical data or future registrations). Although the service uses the same interface as future DAF service, the registreringstid/virkningstid parameters present in the DAF service will always be ignored.

All services will use common set of control parameters:

Name	Type	Required	Description	Default value
apikey	String	True	Unique access key for system	
page	Integer	False	Number of page	1
pagesize	Integer	False	Number of objects to return per single page. For number above 100, 100 is used.	100

Additionally, all services will support following BiTemporal/business parameters (all are optional):

Name	Type	Description	Default value
Id	UUID (comma separated list)	Entity identifiers. Uses and "IN" logic based on the list of Id's provided	NULL
Virkningsaktoer	String	The actor that made changes to entity's properties	NULL
Registreringsaktoer	String	The actor that made the registration	NULL
Forretningsproces	String	The business process that resulted in the update of the entity	NULL
Forretningsomraade	String	The business area that has updated the BBR object to the current version.	NULL
Forretningshaendelse	String	The business event that resulted in the update of the entity	NULL
MedDybde	Boolean	Indicates whether the result should contain nested data (as specified in schema) from joins or only IDs	TRUE

Status	String (comma separated list)	<p>Status of the object in its lifecycle. Should most likely always be set when querying, to avoid including e.g. deleted objects. It is possible to filter with comma-separated list of statuses. Following is the list of current possible values, where status' that indicate BBR Master data are highlighted in bold and status' that indicate open BBR case data are highlighted in <i>italic</i>.</p> <ol style="list-style-type: none"> 1 Start 2 <i>Projekteret</i> 3 <i>Under opførsel</i> 4 Sagsgrund 5 Oprettet 6 Opført 7 Gældende 8 Godkendt 9 Afsluttet 10 Historisk 11 Fejlregistreret 12 <i>Midlertidig Afsluttet</i> 13 <i>Delvis Afsluttet</i> 14 Henlagt 15 Modtaget (Henvendelse) 16 Under behandling (Henvendelse) 17 Afvist (Henvendelse) 18 Udført (Henvendelse) 19 Foreløbig (Jordstykke/Grund) 	NULL
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Following parameters: Virkningsaktoer, Registreringsaktoer, Forretningsproces, Forretningsomraade and Forretningshaendelse are filled with correct data, but they are not search-optimized on their own (as the only search parameter).

A list of provided services together with URL parameters is presented below (all parameters are optional). If parameters are provided, they will be included in the query to select data (as appropriate where clauses).

3.1.1 BBRsag

The BBRsag represents a Case object from BBR. BBR cases contain temporary/potential objects in BBR, which may end up as valid BBR objects in the future. For details on the data model for this object see [Grunddatamodel]. The service returns BBRsag objects as specified by parameters.

3.1.1.1 URL

[BASE_DAF_GATEWAY_URL]/bbrsag

3.1.1.2 Schema

Output data scheme is specified in [DAF Gateway Schema] - BBRsag.schema.json.

3.1.1.3 Parameters

Name	Type	Description	Default value
Bygning	UUID	Get case by Bygning related to the case. Can be either Casedata or Masterdata	NULL
Enhed	UUID	Get case by Enhed related to the case. Can be either Casedata or Masterdata	NULL
Etage	UUID	Get case by Etage related to the case. Can be either Casedata or Masterdata	NULL
Grund	UUID	Get case by Grund related to the case. Can be either Casedata or Masterdata	NULL
Opgang	UUID	Get case by Opgang related to the case. Can be either Casedata or Masterdata	NULL
TekniskAnlaeg	UUID	Get case by TekniskAnlaeg related to the case. Can be either Casedata or Masterdata	NULL
Byggesagsnummer	String	Byggesagsnummer	NULL
KommuneKode	String	Code of the kommune	NULL
EjendomsNummer	String	Get case by Ejendomsnummer (kommunalt ejendomsnummer) related to the all objects that are in the Ejendom	NULL
BFENummer	String	Get case by BFE nummer related to the all objects that are in the Ejendom	NULL

The EjendomsNummer (and KommuneKode) / BFENummer parameters are useful for querying for cases within an Ejendom. In other words, with these parameters the service will return cases that are related to all objects in an Ejendom (Grund, Bygning, etc.). Only the following parameters will be available in this search mode: KommuneKode, Status, MedDybde. Status filter will be applied to the both Ejendomsrelation and the case-objects(Ejendomsrelation and case-objects can have different statuses, so status filter should include both of them).

3.1.2 Bygning

The Bygning represents a building object from BBR. Buildings are a central object in BBR. For details on the data model for this object see [Grunddatamodel]. The service returns Bygning objects as specified by parameters.

3.1.2.1 URL

[BASE_DAF_GATEWAY_URL]/bygning

3.1.2.2 Schema

Output data scheme is specified in [DAF Gateway Schema] - Bygning.schema.json.

3.1.2.3 Parameters

Name	Type	Description	Default value
Etage	UUID (comma separated list)	ID of an Etage placed in the Bygning. Uses and “IN” logic based on the list of Id’s provided	NULL
Fordelingsareal	UUID	ID of a Fordelingsareal placed in the Bygning	NULL
Opgang	UUID (comma separated list)	ID of an Opgang placed in the Bygning. Uses and “IN” logic based on the list of Id’s provided	NULL
TekniskAnlaeg	UUID	ID of a TekniskAnlaeg placed in the Bygning	NULL
Grund	UUID	ID of the Grund the Bygning is placed on	NULL
Jordstykke	Integer	The MU identifier for the Jordstykke.	NULL
Ejendomsrelation	UUID	Ejendomsrelation ID of type Ejerlejlighed or BPFG. Use this to find the Bygning based on Ejerlejlighed or BPFG type property. Cannot be used to find Bygning by SFE type Ejendomsrelation, for this go through the Grund.	NULL
Husnummer	UUID	DAR Husnummer ID – use ID found via in DAWA (adgangsadresse)	NULL
Nord	Double	Northern bounding box coordinate	NULL
Syd	Double	Southern bounding box coordinate	NULL
Oest	Double	Eastern bounding box coordinate	NULL
Vest	Double	Western bounding box coordinate	NULL

3.1.3 Ejendomsrelation

The Ejendomsrelation represents a property BBR. BBR objects are always part of a given property, defined by their relation to this. For details on the data model for this object see [Grunddatamodel]. The service returns Ejendomsrelation objects as specified by parameters.

An Ejendomsrelation can be one of three types, Samlet Fast Ejendom(SFE), Bygning På Fremmed Grund (BPFG) og Ejerlejlighed.

URL

[BASE_DAF_GATEWAY_URL]/ejendomsrelation

3.1.3.1 Schema

Output data scheme is specified in [DAF Gateway Schema] - Ejendomsrelation.schema.json.

3.1.3.2 Parameters

Name	Type	Description	Default value
BPFG	Integer	MU BygningPåFremmedGrund ID	NULL

Ejerforholdskode	String	Ejerforholdskode	NULL
Ejerlejlighed	Integer	MU Ejerlejlighed ID	NULL
Ejendomsnummer	Integer	Ejendomsnummer (kommunal ejendomsnummer)	NULL
BFE nummer	Integer	BFE nummer	NULL
SamletFastEjendom	UUID	MU SamletFastEjendom ID	NULL
Vurderingsejendomsnummer	Integer	Vurderingsejendomsnummer (Not yet available as of May 2019)	NULL
Kommunekode	Integer	Code of the Kommune	NULL

3.1.4 Enhed

The Enhed represents an apartment or business unit inside a building. For details on the data model for this object see [Grunddatamodel]. The service returns Enhed objects as specified by parameters.

3.1.4.1 URL

[BASE_DAF_GATEWAY_URL]/enhed

3.1.4.2 Schema

Output data scheme is specified in [DAF Gateway Schema] - Enhed.schema.json.

3.1.4.3 Parameters

Name	Type	Description	Default value
Etage	UUID (comma separated list)	ID of an Etage that the Enheds are placed in. Uses and "IN" logic based on the list of Id's provided	NULL
Fordelingsareal	UUID	ID of a Fordelingsareal which the Enhed is receiving area from	NULL
Opgang	UUID (comma separated list)	ID of an Opgang that the Enheds are placed in. Uses and "IN" logic based on the list of Id's provided	NULL
TekniskAnlaeg	UUID (comma separated list)	ID of an TekniskAnlaeg placed in the Enhed. Uses and "IN" logic based on the list of Id's provided	NULL
Ejendomsrelation	UUID	Ejendomsrelation ID of type Ejerlejlighed. Use this to find the Enhed based on Ejerlejlighed.	NULL
AdresselIdentifierer	UUID	DAR Adresse ID – use ID found from DAR via DAWA, or by use of DAF.	NULL

3.1.5 Grund

The Grund is the top level object in the BBR hierarchy, best translated as a Site. Alle objects in BBR are placed on 1 and only 1 Grund. For details on the data model for this object see [Grunddatamodel]. The service returns Grund objects as specified by parameters.

3.1.5.1 URL

[BASE_DAF_GATEWAY_URL]/grund

3.1.5.2 Schema

Output data scheme is specified in [DAF Gateway Schema] - Grund.schema.json.

3.1.5.3 Parameters

Name	Type	Description	Default value
Bygning	UUID	ID of a Bygning placed om the Grund	NULL
TekniskAnlaeg	UUID	ID of a TekniskAnlaeg placed on the Grund	NULL
Ejendomsrelation	UUID	Id of the Ejendomsrelation (of Type SFE) that the Grund is related to	NULL
Jordstykke	Integer	The MU identifier for the Jordstykke.	NULL
Husnummer	UUID (comma separated list)	DAR Husnummer ID – use ID found via in DAWA (adgangsadresse)	NULL

3.1.6 Jordstykke

The Jordstykke represents a plot of land. Jordstykke objects are not owned or maintained by BBR. They come from MU (Matriklens Udvidelse) in BBR 2.0 and onwards. For details on the data model for this object see [Grunddatamodel]. The service returns Jordstykke objects as specified by parameters.

3.1.6.1 URL

[BASE_DAF_GATEWAY_URL]/jordstykke

3.1.6.2 Schema

Output data scheme is specified in [DAF Gateway Schema] - Jordstykke.schema.json.

3.1.6.3 Parameters

Name	Type	Description	Default value
Ejerlav	UUID	BBR Ejerlav ID	NULL
Delnummer	String	Jordstykke delnummer	NULL
Ejerlavskode	Integer	Jordstykke ejerlavskode (Landsejerlav)	NULL
Ejerlavsnavn	String	Jordstykke ejerlavsnavn	NULL
Artskode	String	Jordstykke artskode	NULL

Matrikelnummer	String	Jordstykke matrikelnummer	NULL
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3.1.7 Tekniskanlæg

The Tekniskanlæg represents a technical installation in BBR, there are many variants of these, e.g. oil tanks and windmills. For details on the data model for this object see [Grunddatamodel]. The service returns TekniskAnlæg objects as specified by parameters.

3.1.7.1 URL

[BASE_DAF_GATEWAY_URL]/tekniskanlaeg

3.1.7.2 Schema

Output data scheme is specified in [DAF Gateway Schema] - TekniskAnlæg.schema.json.

3.1.7.3 Parameters

Name	Type	Description	Default value
Jordstykke	Integer	The MU identifier for the Jordstykke.	NULL
Ejendomsrelation	UUID	Ejendomsrelation ID of type Ejerlejlighed or BPFG. Use this to find the TekniskAnlæg based on Ejerlejlighed or BPFG type property. Cannot be used to find TekniskAnlæg by SFE type Ejendomsrelation, for this go through the Grund.	NULL
Husnummer	UUID	DAR Husnummer ID – use ID found via in DAWA (adgangsadresse)	NULL
Bygning	UUID	ID of Bygning that the TekniskAnlæg is placed in	NULL
Enhed	UUID	ID of Enhed that the TekniskAnlæg is placed in	NULL
Grund	UUID	ID of Grund that the TekniskAnlæg is placed in	NULL
Nord	Double	Northern bounding box coordinate	NULL
Syd	Double	Southern bounding box coordinate	NULL
Oest	Double	Eastern bounding box coordinate	NULL
Vest	Double	Western bounding box coordinate	NULL

3.2 Codelist and codevalue service

Several fields on BBR objects utilizes code lists, so only a “code value” is stored in the field and the corresponding text can be looked up in the list. For example, the field Gru009Vandforsyning can have the code value “4” which has the text “Brønd”, shown as “4 – Brønd” in the user interface.

All code lists and their values and texts can be found on <http://bbr.dk/kodelister/0/30> and furthermore this REST service is provided to look up the possible codes for a given code list with their corresponding code text.

3.2.1 Codelist

3.2.1.1 URL

[BASE_DAF_GATEWAY_URL]/codelist

3.2.1.2 Schema

Output data scheme is specified in [Codelist Schema] - Codelist.schema.json.

3.2.1.3 Parameters

Name	Type	Description	Default value
Codelist	String	Name of Code List	NULL
Codevalue	String	Key of code value	NULL

If no parameters are provided, all codelists with their respective codevalues are returned.

3.3 Object hierarchy

The purpose of this service is to return the hierarchy of BBR objects.

The service returns a JSON structure, which is divided into results of SFE, BPFG and Ejerlejlighed (based on the property ownership type). The service is useful for getting a simple overview of an entire Ejendom's underlying objects without iterating through the object references available in the individual entity services.

The object hierarchy service does not include details about the individual objects in the hierarchy, as such the individual entity services should be used to query details for relevant objects in the hierarchy. As an example, the easiest way to get information about every Enhed in a given Ejendom would be to use the object hierarchy service to obtain all Enhed-Id's within the Ejendom. Afterwards the Enhed-service can be batch-queried to get details about the individual Enheds.

3.3.1 URL

[BASE_DAF_GATEWAY_URL]/objecthierarchy

3.3.2 Schema

Output data scheme is specified in [ObjectHierarchy Schema] - Objecthierarchy.schema.json.

3.3.3 Parameters

Name	Type	Description	Default value
EjendomsNummer	String	Ejendomsnummer (kommunalt ejendomsnummer)	NULL
BFENummer	String	BFE Nummer	NULL
KommuneKode	String	Code of the kommune	NULL
Statuses	String (comma separate d list)	Status filter for the objects. The status codes are described in the section 3.1.	NULL

The following parameters are required:

- Kommunekode
- Ejendomsnummer or BFENummer (one is required)

The statuses parameter is optional.

3.3.4 Output

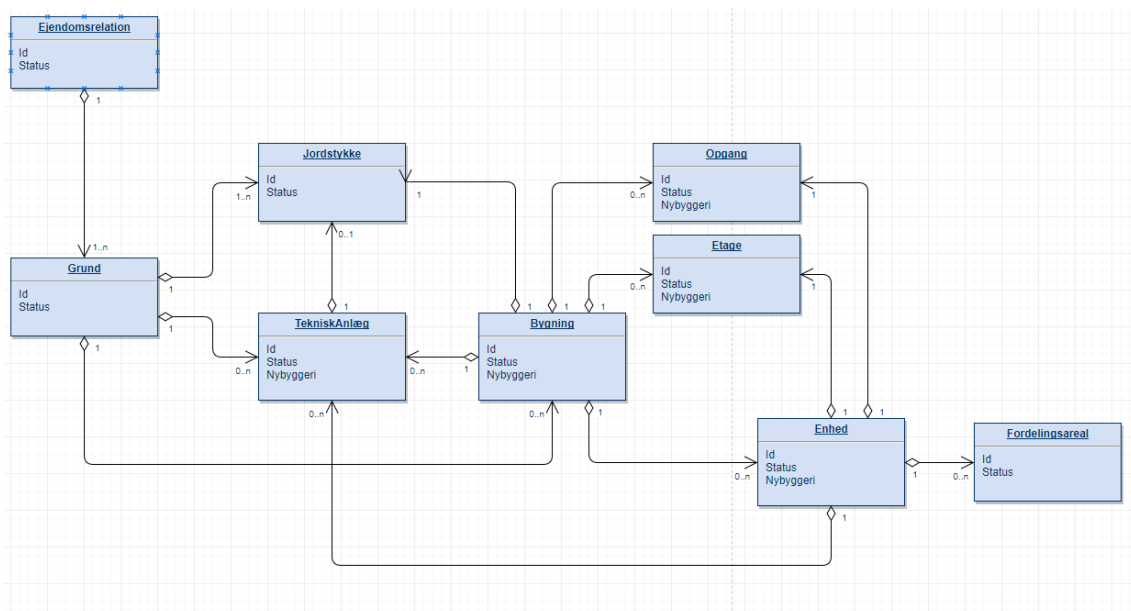
When the input parameter requirements are not met, the 400 status code (Bad Request) is returned with the corresponding message.

As described above the service returns a JSON structure, which is divided in the three parts: SFE, BPGF and Ejerlejlighed. The names of the returned fields are shown on the figures in the following subsections.

3.3.4.1 SFE

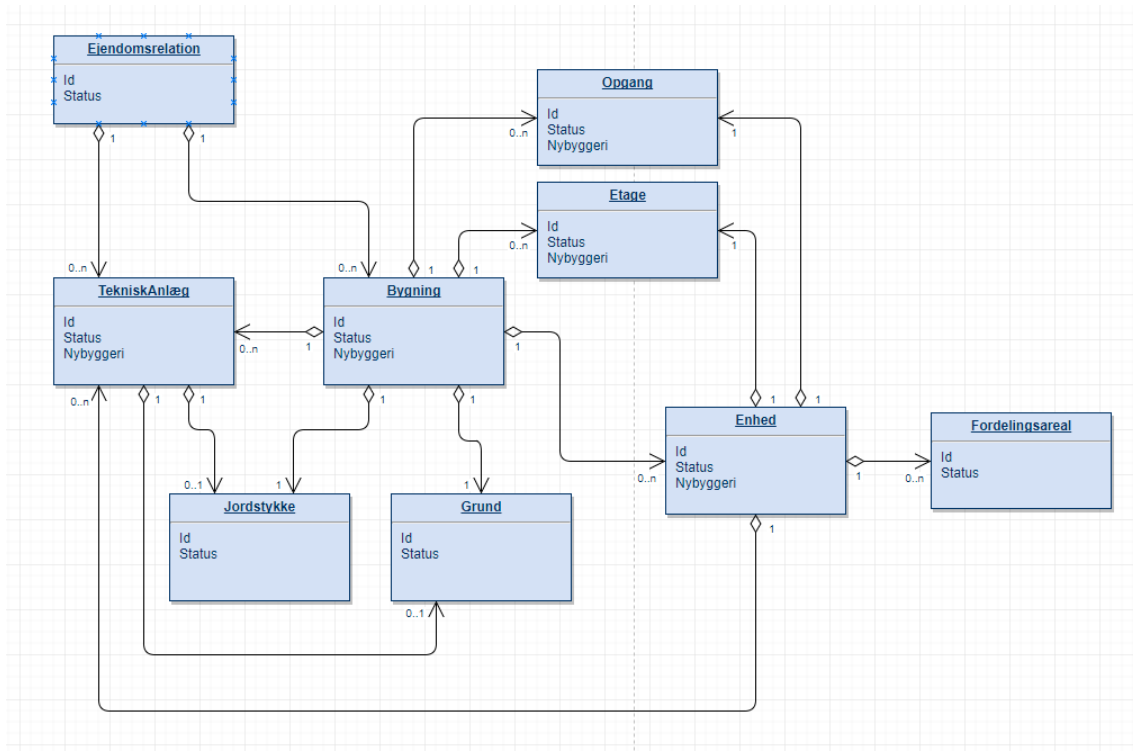
The structure is based on the property relationship (Ejendomsrelation). From this, a connection is made to the ground and then to the other underlying objects.

The full object hierarchy of SFE is shown in the figure below.



3.3.4.2 BPGF

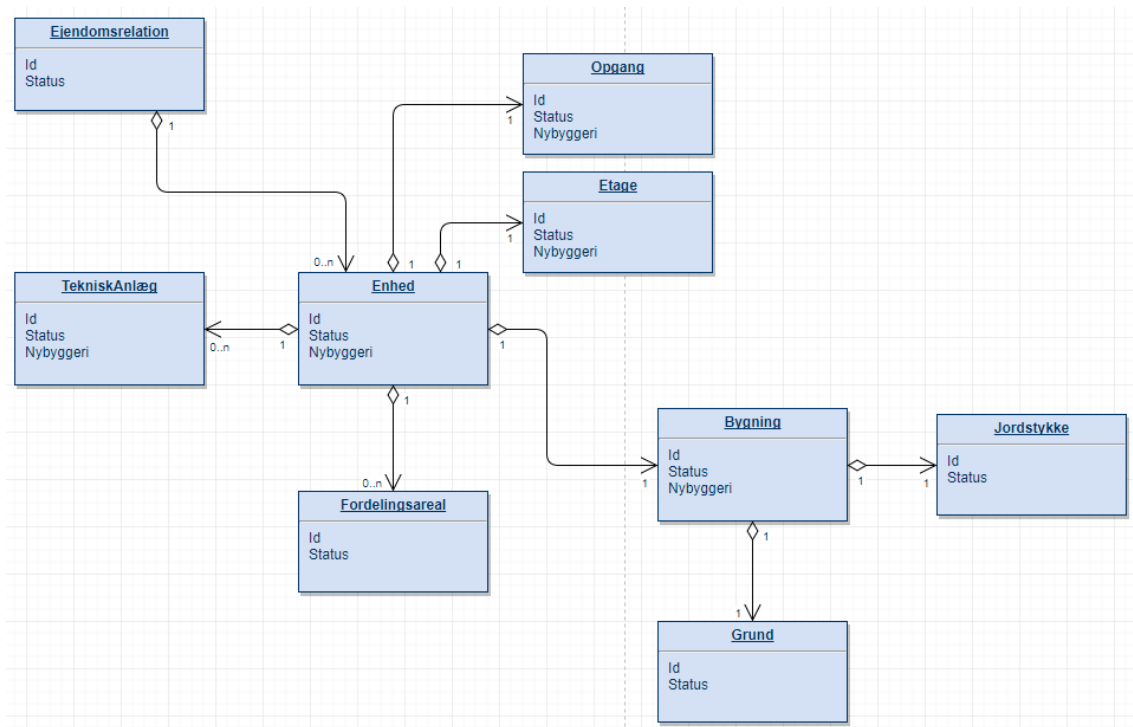
The property ownership of the BPGF type is based on the buildings and technical installations. The structure is shown in the figure below.



3.3.4.3 Ejerlejlighed

The property ownership of the Ejerlejlighed type is based on the objects that are directly related to the property relationship. From Ejendomsrelation, connection is made to the buildings, apartments and technical installations. For the buildings and technical installations the same structure is used as in BPFG section (3.3.4.2).

The apartment structure is shown in the figure below.



3.4 GeoServer

This section describes the GeoServer service that BBR SWG exposes for other systems to read BBR geospatial data. The BBR geospatial data that will be made available are buildings and technical installations.

3.4.1 Exposed services

BBR SWG exposes two services: WMS and WFS. Both of them are simple HTTP interfaces created by OpenGIS® as open-source. The documentation for these interfaces can be found there:

- WMS - <http://www.opengeospatial.org/standards/wms>
- WFS - <http://www.opengeospatial.org/standards/wfs>

3.4.1.1 Services limitations

Both WMS and WFS service has some limitations. The maximum number of features (building or technical installations) in WFS service is limited to 100. The WMS service has scale limitations as described below.

Scale denominator	Output
> 5000	No features
< 5000, > 1000	Square points of features
< 1000	Square point of features along with building/technical installation numbers

The scale denominator is described in the GeoServer documentation:
<https://docs.geoserver.org/latest/en/user/styling/sld/reference/rules.html>

3.4.2 URL

Service	URL
WMS	[BASE_DAF_GATEWAY_URL]/wms
WFS	[BASE_DAF_GATEWAY_URL]/wfs

3.4.3 Authorization

The BBR Geoserver service uses API keys for authorization. An API key is a token that a client provides when making HTTP calls to the service. The key should be included in every http request as a parameter e.g.

[BASE_DAF_GATEWAY_URL]/wms?**apikey**=ValidApiKey

You need a "global" API key (with access to all municipalities) to use these services.

If the provided API key is invalid, the 401 (Unauthorized) HTTP status code will be returned.

3.4.4 WFS output

The output from the WFS service contains three properties for buildings or technical installations:

- Id of the object (building or technical installation)
- Coordinates point

- Building or technical installation number

Example output for a building and technical installation:

```
<bbr:Bygninger gml:id="Bygninger.49c60978-8058-467e-8acd-b16868dcce3e">
  <bbr:Byg404Koordinat>
    <gml:Point srsName="urn:x-ogc:def:crs:EPSG:25832" srsDimension="2">
      <gml:pos>546926.2 6101770.4</gml:pos>
    </gml:Point>
  </bbr:Byg404Koordinat>
  <bbr:Byg007Bygningsnummer>1</bbr:Byg007Bygningsnummer>
</bbr:Bygninger>

<bbr:TekniskAnlaeg gml:id="TekniskAnlaeg.13b1ad9c-7daa-49fb-aa6e-14403355de11">
  <bbr:Tek109Koordinat>
    <gml:Point srsName="urn:x-ogc:def:crs:EPSG:25832" srsDimension="2">
      <gml:pos>727044.94 6171449.14</gml:pos>
    </gml:Point>
  </bbr:Tek109Koordinat>
  <bbr:Tek007Anlægsnummer>1</bbr:Tek007Anlægsnummer>
</bbr:TekniskAnlaeg>
```

3.4.5 WFS/WMS types and layers

BBR GeoServer exposes geospatial data from buildings and technical installations. To query this data in the WFS service the **typeName** parameter has to be provided to distinguish what geospatial data to return.

Type	GeoServer type name
Buildings	bbr:Bygninger
Technical installations	bbr:TekniskAnlaeg

Example request:

[BASE_DAF_GATEWAY_URL]/wfs?apikey=[API_KEY]&service=wfs&version=1.1.0&request=GetFeature&typeName=**bbr:Bygninger**

The same applies to the WMS service, but instead of the typeName parameter the **layers** parameter should be specified.

Type	GeoServer layer
Buildings	bbr:Bygninger
Technical installations	bbr:TekniskAnlaeg

Example request:

[BASE_DAF_GATEWAY_URL]/wms?apikey=[API_KEY]&SERVICE=WMS&VERSION=1.1.1&REQUEST=GetMap&FORMAT=image/png&TRANSPARENT=true&STYLES=&**LAYERS=bbr:TekniskAnlaeg**&SRS=EPSG:25832&WIDTH=769&HEIGHT=599&BBOX=726606.8796561043,6172057.27028352,726721.4068474834,6172146.595527837

3.4.6 OpenLayers example usage

```
<!doctype html>
<html lang="en">
<head>
```

```
<link rel="stylesheet"
href="https://cdn.rawgit.com/openlayers/openlayers.github.io/master/en/v5.2.0/css/ol.css"
type="text/css">
<style>
    .map {
        height: 400px;
        width: 100%;
    }
</style>
<script
src="https://cdn.rawgit.com/openlayers/openlayers.github.io/master/en/v5.2.0/build/ol.js"></script>
<title>BBR Geoserver example</title>
</head>
<body>
    <h2>BBR Geoserver example</h2>
    <div id="map" class="map"></div>
    <script type="text/javascript">
        var map = new ol.Map({
            target: 'map',
            layers: [
                new ol.layer.Tile({
                    source: new ol.source.OSM()
                }),
                new ol.layer.Image({
                    source: new ol.source.ImageWMS({
                        projection: 'EPSG:25832',
                        url: '[BASE_DAF_GATEWAY_URL]/wms?apikey=[API_KEY]',
                        params: { 'LAYERS': 'bbr:Bygninger', 'VERSION': '1.1.1' },
                    }),
                    zIndex: 8
                })
            ],
            view: new ol.View({
                center: ol.proj.fromLonLat([12.575001, 55.673077]),
                zoom: 18
            })
        });
    </script>
</body>
</html>
```

4 Indberetter snitflader (Update services)

This section describes the service exposed on SWG that perform write operations in BBR. For information on the data models that the services use see 1.2.

4.1 Byggesag

The purpose of this service is to allow to create, update, complete and delete cases (Byggesag) in BBR. This service can be used by the municipalities case handling systems in order to automatically create and update cases in BBR based on actions and event in the case handling systems.

Version 1 and 2 of the Byggesag service only allows creation, updating case information, and deletion of cases via the services. Per version 3 (BBR 1.8.1) it is also supported to approve/close the cases, thus turning them into masterdata.

Version 4 now have the added functionality to allow system users with the role “ByggesagServiceLandsdaekkende” to ignore municipality borders in regards to Scopes. The system will automatically set the correct municipality on the scope if the user have this role, effectively allowing them to create/update/delete Byggesags in all municipalities. – This role is only intended to be used by BOM (Byg og miljø).

Provider	Area	Value
BBR 2.3	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	SOAP
	Security	STS (SAML Token) – Local Scope or Client certificates – Local Scope
	Address	Preprod via STS: https://pp2-sg.bbr.dk/External/ByggesagServiceV4 Preprod via client certificates: https://pp2-sg.bbr.dk/External/ByggesagCertificateServiceV4

All operations will contain following status structure in their output:

Name	Type	Description
StatusCode	Integer	Status code, possible values are described for each operation. Additional codes might be added when needed
Message	String	Status message (description)

4.1.1 ByggesagCreate

ByggesagCreate operation allows creation of the Byggesag. If no errors occur each call to this service will result in the creation of a new case in BBR.

4.1.1.1 Parameters

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the associated entity. See Sagstype field for explanation of which type of object ID to provide.
Kommunekode	String	Kommunekode (4 digit), required.
Sagstype	Sagstype (Enumeration type): <ul style="list-style-type: none"> SagPaaGrund = 0, Nybyggeri = 1, TilOmbygning = 2, NedrivningDelvis = 31, 	The type of the Sag, required. This determines which type of BBR case should be created. The parameters Sagsniveau and Id must be set differently depending on the type: SagPaaGrund

	<ul style="list-style-type: none"> NedrivningHel = 32 	<p>Creates a case on Grund level with a Grund case object. Normally used for “placeholder” cases that do not yet have any other case data. Requires:</p> <ul style="list-style-type: none"> - Id must be the ID of a Grund - Sagsniveau must be Grund <p>Nybyggeri</p> <p>Creates a Nybyggeri case, which is a case that creates a new BBR object (either a Bygning or Tekniskanlæg). Requires:</p> <ul style="list-style-type: none"> - Id must be the ID of a Jordstykke (where to place the new object) - Sagsniveau must be either Bygning or TekniskAnlaeg, depending on which object type is supposed to be created <p>TilOmbygning</p> <p>Creates a TilOmbygning case, which is a case that changes an existing BBR object. Requires:</p> <ul style="list-style-type: none"> - Id must be the ID of the BBR object to change (either a TekniskAnlaeg ID or a Bygning ID) - Sagsniveau must be Bygning (if Bygning ID is provided) or Tekniskanlaeg (if TekniskAnlaeg ID is provided) <p>NedrivningDelvis/NedrivningHel</p> <p>Creates a Nedrivning case, which is completely or partially removes a BBR object. Requires:</p> <ul style="list-style-type: none"> - Id must be the ID of the BBR object to change (either a TekniskAnlaeg ID or a Bygning ID) - Sagsniveau must be Bygning (if Bygning ID is provided) or Tekniskanlaeg (if TekniskAnlaeg ID is provided)
Sagsniveau	<p>Sagsniveau (Enum):</p> <ul style="list-style-type: none"> Grund = 1, Bygning = 2, TekniskAnlaeg = 3 	Entity type associated with the Sag, required. See Sagstype for information on which value to set
Data	ByggesagCreateData	Sag data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether BBR should send a BBR-message for this change

TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
---------------	------	---

ByggesagCreateData

Name	Type
Sag001Byggesagsnummer	String
Sag004ForventetPåbegyndelsesdato	Nullable DateTime (Must be UTC time and format)
Sag009ForventetFuldførtDato	Nullable DateTime (Must be UTC time and format)
Sag012Byggesagskode	CodeValue as String Codelist: Byggesagskode
Sag019Bygherreforhold	CodeValue as String Codelist: Bygherreforhold
Sag022SagsbehandlerInitialer	String
Sag024DatoForModtagelseAfAnsøgningOmByggetilladelse	Nullable DateTime (Must be UTC time and format)
Sag025DatoForFyldestgørendeAnsøgning	Nullable DateTime (Must be UTC time and format)
Sag026DatoForNaboorientering	Nullable DateTime (Must be UTC time and format)
Sag027DatoForFærdigbehandlingAfNaboorientering	Nullable DateTime (Must be UTC time and format)
Sag030JournalReference	String
Sag031EsdhReference	String
Sag032Litra	String
Sag034ForventetSamletAntalBoliger	Nullable Long

4.1.1.2 Output

Name	Type	Description
ByggesagId	Nullable UUID	Id of created Sag (null if Status is not OK)
SagobjectId	Nullable UUID	Id of created Sagobject (null if Status is not OK)
Status	Status	List of status codes: <ul style="list-style-type: none"> 1 - OK, 15 - CreateError,

		<ul style="list-style-type: none"> 13 - InvalidRequest, 14 - InvalidKommunekode, 15 - CreateError 16 – RelatedObjectNotFound 99 - UndefinedError
ValidationErrors	Array of ValidationMessage	<p>Each ValidationMessage contains:</p> <ul style="list-style-type: none"> ValidationCode (String) Description (String) Type (Enum) <p>possible values: Warning, Error</p>

4.1.2 ByggesagUpdate

ByggesagUpdate operation allows to update existing Byggesag.

All fields in the ByggesagUpdateData are of type BaseBBRUpdateStruct<T>. This type has a Boolean ValueUpdated and a fieldvalue. The field will **only** be updated in BBR if ValueUpdated is set to true.

This allows deletion of data values by setting ValueUpdate to true, and setting the fieldvalue to NULL.

4.1.2.1 Parameters

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the Byggesag
Data	ByggesagUpdateData	Sag data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether BBR should send a BBR-message for this change
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.

ByggesagUpdateData

Name	Type
Sag001Byggesagsnummer	BaseBBRUpdateStruct<Nullable String>

Sag003Byggetilladelsesdato	BaseBBRUpdateStruct<Nullable DateTime> (Must be UTC time and format)
Sag004ForventetPåbegyndelsesdato	BaseBBRUpdateStruct<Nullable DateTime> (Must be UTC time and format)
Sag005Påbegyndelsesdato	BaseBBRUpdateStruct<Nullable DateTime> (Must be UTC time and format)
Sag009ForventetFuldførtDato	BaseBBRUpdateStruct<Nullable DateTime> (Must be UTC time and format)
Sag012Byggesagskode	BaseBBRUpdateStruct<CodeValue as String> Codelist: Byggesagskode
Sag013AnmeldelseAfByggearbejde	BaseBBRUpdateStruct<Nullable DateTime> (Must be UTC time and format)
Sag019Bygherreforhold	BaseBBRUpdateStruct<CodeValue as String> Codelist: Bygherreforhold
Sag022SagsbehandlerInitialer	BaseBBRUpdateStruct<String>
Sag024DatoForModtagelseAfAnsøgningOmByggetilladelse	BaseBBRUpdateStruct<Nullable DateTime> (Must be UTC time and format)
Sag025DatoForFyldestgørendeAnsøgning	BaseBBRUpdateStruct<Nullable DateTime> (Must be UTC time and format)
Sag026DatoForNaboorientering	BaseBBRUpdateStruct<Nullable DateTime> (Must be UTC time and format)
Sag027DatoForFærdigbehandlingAfNaboorientering	BaseBBRUpdateStruct<Nullable DateTime> (Must be UTC time and format)
Sag030JournalReference	BaseBBRUpdateStruct<String>
Sag031EsdhReference	BaseBBRUpdateStruct<String>
Sag032Litra	BaseBBRUpdateStruct<String>
Sag034ForventetSamletAntalBoliger	BaseBBRUpdateStruct<Nullable Long>

4.1.2.2 Output

Name	Type	Description
------	------	-------------

Status	Status	<p>List of status codes:</p> <ul style="list-style-type: none"> • 1 - OK, • 15 - CreateError, • 13 - InvalidRequest, • 14 - InvalidKommunekode, • 99 - UndefinedError
ValidationErrors	Array of ValidationMessage	<p>Each ValidationMessage contains:</p> <ul style="list-style-type: none"> • ValidationCode (String) • Description (String) • Type (Enum) <p>possible values: Warning, Error</p>

4.1.3 ByggesagDelete

ByggesagDelete operation allows to delete existing Byggesag (set its status to deleted).

4.1.3.1 Parameters

Name	Type	Description
Id	UUID	Id of the Byggesag
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.

4.1.3.2 Output

Name	Type	Description
Status	Status	<p>List of status codes:</p> <ul style="list-style-type: none"> • 1 - OK, • 11 - UpdateError, • 12 - ByggesagNotFound, • 13 - InvalidRequest, • 14 - InvalidKommunekode, • 99 - UndefinedError
ValidationErrors	Array of ValidationMessage	<p>Each ValidationMessage contains:</p> <ul style="list-style-type: none"> • ValidationCode (String)

		<ul style="list-style-type: none"> Description (String) Type (Enum) <p>possible values: Warning, Error</p>
--	--	--

4.1.4 CompleteByggesag

The service performs a full approval and completion of the case. When doing so all the case data objects are turned into master data, either by changing their state (Nybyggeri) or by projection them onto the existing masterdata (Til/ombygning & Nedrivning). Performing this action triggers full business validation of both the case and all masterdata updated by closing the case.

4.1.4.1 Parameters

Name	Type	Description
ByggesagId	UUID	Id of the Byggesag to complete
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
Sag005Påbegyndelsesdato	Nullable DateTime (Must be UTC time and format)	Does not affect the completion of the case, but can be edited/set at the same time to prevent validation errors.
Sag006IbrugtagningTilladelse	Nullable DateTime (Must be UTC time and format)	Can be used to set the date as part of the completion of the case. To set this for an already completed case use the "IbrugtagningCompleteByggesag" operation.
Sag010FuldførelseAfByggeri	DateTime (Must be UTC time and format)	The completion date for the case.
Byg122Gyldighedsdato	Nullable DateTime (Must be UTC time and format)	Does not affect the completion of the case, but can be set in case the date should be provided for the given field on the Bygning object in the case.
IgnoreWarnings	Boolean	Flag indicating if validation warnings should be ignored. Please see "BBR Services Validation" chapter for more details.

4.1.4.2 Output

Name	Type	Description
Status	Status	<p>List of status codes:</p> <ul style="list-style-type: none"> 1 - OK, 11 - UpdateError, 12 - ByggesagNotFound, 13 - InvalidRequest,

		<ul style="list-style-type: none"> 14 - InvalidKommunekode, 15 – ByggesagInvalidState, 99 - UndefinedError
ValidationErrors	Array of ValidationMessage	<p>Each ValidationMessage contains:</p> <ul style="list-style-type: none"> ValidationCode (String) Description (String) Type (Enum) <p>possible values: Warning, Error</p>

4.1.5 IbrugtagningCompleteByggesag

For cases where the case code (Sag012Byggesagskode) is 3 (Tilladelsessag med ibrugtagning) it is possible to perform this operation after the case has been completed.

4.1.5.1 Parameters

Name	Type	Description
ByggesagId	UUID	Id of the Byggesag
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
Sag006IbrugtagningTilladelse	DateTime (Must be UTC time and format)	The date to set
Byg122Gyldighedsdato	Nullable DateTime (Must be UTC time and format)	Does not affect the completion of the case, but can be set in case the date should be provided for the given field on the Bygning object in the case.
IgnoreWarnings	Boolean	<p>Flag indicating if validation errors should be ignored.</p> <p>Please see “Entities validation” chapter for more details.</p>

4.1.5.2 Output

Name	Type	Description
Status	Status	<p>List of status codes:</p> <ul style="list-style-type: none"> 1 - OK, 11 - UpdateError, 12 - ByggesagNotFound, 13 - InvalidRequest, 14 - InvalidKommunekode,

		<ul style="list-style-type: none"> 15 – ByggesagInvalidState, 99 - UndefinedError
ValidationErrors	Array of ValidationMessage	Each ValidationMessage contains: <ul style="list-style-type: none"> ValidationCode (String) Description (String) Type (Enum) possible values: Warning, Error

4.1.6 HenlægByggesag

This operation completes the case as an annulment/cancellation (henlæggelse) of the case. When using this the case data is not made into BBR data, and the case will be cancelled and no longer be shown in BBR Kommune.

4.1.6.1 Parameters

Name	Type	Description
ByggesagId	UUID	Id of the Byggesag
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
Sag007Henlæggelse	DateTime (Must be UTC time and format)	Date to set
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see "Entities validation" chapter for more details.

4.1.6.2 Output

Name	Type	Description
Status	Status	List of status codes: <ul style="list-style-type: none"> 1 - OK, 11 - UpdateError, 12 - ByggesagNotFound, 13 - InvalidRequest, 14 - InvalidKommunekode, 15 – ByggesagInvalidState, 99 - UndefinedError
ValidationErrors	Array of ValidationMessage	Each ValidationMessage contains:

		<ul style="list-style-type: none"> • ValidationCode (String) • Description (String) • Type (Enum) <p>possible values: Warning, Error</p>
--	--	---

4.1.7 PartialCompleteByggesag

If a building is partially completed it is possible to partially complete the Byggesag to indicate which of the Units (Enhed) are completed and which are not. Besides the date a list of the Enhed ID's to complete and the total area of the building that is completed.

4.1.7.1 Parameters

Name	Type	Description
ByggesagId	UUID	Id of the Byggesag
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
Sag005Påbegyndelsesdato	Nullable DateTime (Must be UTC time and format)	Does not affect the completion of the case, but can be edited/set at the same time to prevent validation errors.
Sag008FærdigtBygningsareal	long	The area of the building that is completed by performing the given partial completion operation. So not the total sum, but the new area to complete.
Sag016DelvislbrugtagningTilladelse	DateTime (Must be UTC time and format)	Date to set
EnhedIds	List of UUID	List of the Enhed's case data objects to complete.
Byg122Gyldighedsdato	Nullable DateTime (Must be UTC time and format)	Does not affect the completion of the case, but can be set in case the date should be provided for the given field on the Bygning object in the case.
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see "Entities validation" chapter for more details.

4.1.7.2 Output

Name	Type	Description
Status	Status	<p>List of status codes:</p> <ul style="list-style-type: none"> • 1 - OK, • 11 - UpdateError,

		<ul style="list-style-type: none"> 12 - ByggesagNotFound, 13 - InvalidRequest, 14 - InvalidKommunekode, 15 - ByggesagInvalidState 99 - UndefinedError
ValidationErrors	Array of ValidationMessage	<p>Each ValidationMessage contains:</p> <ul style="list-style-type: none"> ValidationCode (String) Description (String) Type (Enum) <p>possible values: Warning, Error</p>

4.1.8 IndflytEnhederByggesag

This operation is similar to PartialCompleteByggesag, in the sense that it also completes some of the case objects in the Byggesag and turns them into BBR masterdata. This scenario indicates that “move-in” (indflytning) has been performed on the given Enhed(s).

4.1.8.1 Parameters

Name	Type	Description
ByggesagId	UUID	Id of the Byggesag
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
Sag005Påbegyndelsesdato	Nullable DateTime (Must be UTC time and format)	Does not affect the completion of the case, but can be edited/set at the same time to prevent validation errors.
Indflytningsdato	DateTime (Must be UTC time and format)	The date to set
EnhedIds	List of UUID	List of the Enhed's case data objects to complete.
Byg122Gyldighedsdato	Nullable DateTime (Must be UTC time and format)	Does not affect the completion of the case, but can be set in case the date should be provided for the given field on the Bygning object in the case.
IgnoreWarnings	Boolean	<p>Flag indicating if validation errors should be ignored.</p> <p>Please see “Entities validation” chapter for more details.</p>

4.1.8.2 Output

Name	Type	Description
Status	Status	<p>List of status codes:</p> <ul style="list-style-type: none"> • 1 - OK, • 11 - UpdateError, • 12 - ByggesagNotFound, • 13 - InvalidRequest, • 14 - InvalidKommunekode, • 15 – ByggesagInvalidState, • 99 - UndefinedError
ValidationErrors	Array of ValidationMessage	<p>Each ValidationMessage contains:</p> <ul style="list-style-type: none"> • ValidationCode (String) • Description (String) • Type (Enum) <p>possible values: Warning, Error</p>

4.2 Miljø

The purpose of this service is to allow clients to maintain environmental related data on Tekniskanlaeg, Bygning and Grund objects in BBR. This allows the municipalities systems for environmental control and case handling to synchronize data directly to BBR.

Provider	Area	Value
BBR 2.3	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	SOAP
	Security	STS (SAML Token) – Local Scope or Client certificates – Local Scope
	Address	Preprod via STS: https://pp2-sg.bbr.dk/External/MiljoServiceV2 Preprod via client certificates: https://pp2-sg.bbr.dk/External/MiljoCertificateServiceV2

4.2.1 General

4.2.1.1 Output

The service will return the following output:

Name	Type	Description
Status	Status (see next table)	Response status
ValidationErrors	Array of ValidationMessage	Each ValidationMessage contains: <ul style="list-style-type: none"> • ValidationCode (String) • Description (String) • Type (Enum) possible values: Warning, Error
ObjectId	UUID	ID of created object, only used on Create services.

The service will return following status structure:

Name	Type	Description
StatusCode	Integer	Status code, possible values: <ul style="list-style-type: none"> • 0 - A valid object with given input Id was not found, • 10 - Teknisk Anlæg, Building or Grund was successfully updated, • 20 - An error occurred during update. Try again later, • 30 - Error in the service. Try again later. Additional codes might be added when needed
Message	String	Status message (description)

In case of Update failure (output code 20), the service will also return a list of validation messages, stating which validation errors made the update impossible (Only for Teknisk Anlæg and Grund). Each ValidationMessage contains: ValidationCode (String), Description (String), Type (Enum - possible values: Warning, Error).

All fields in the update operations are of type BasseBBRUpdateStruct<T>. This type has a Boolean ValueUpdated and a fieldvalue. The field will **only** be updated in BBR if ValueUpdated is set to true.

This allows deletion of data values by setting ValueUpdate to true, and setting the fieldvalue to NULL.

4.2.2 CreateTekniskAnlaeg

This operation is used to create a Teknisk Anlæg

4.2.2.1 Parameters

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
HusnummerId	UUID	Identifier for address of object

JordstykkeId	UUID	The Id of the Jordstykke the Teknisk Anlæg should be placed on.
Tek007Anlægsnummer	Nullable long	In Create calls BBR will automatically set next available number if this is left as NULL
Tek020Klassifikation	CodeValue as String	Codelist: Klassifikation
Tek021FabrikatType	String	Manufacturer Type
Tek022EksternDatabase	String	External Database
Tek023EksternNøgle	String	External key
Tek024Etableringsår	Nullable Long	Established
Tek025TilOmbygningsår	Nullable Long	Year of construction
Tek026StørrelsesklasseOlietank	CodeValue as String	Codelist: Størrelsesklasse
Tek027Placering	CodeValue as String	Codelist: Placering
Tek028SløjfningOlietank	CodeValue as String	Codelist: Sløjfning
Tek030Fabrikationsnummer	String	Production number
Tek031Typegodkendelsesnummer	String	Type approval number
Tek032Størrelse	Nullable Long	Size
Tek033Type	CodeValue as String	Codelist: Type af vægge
Tek034IndholdOlietank	CodeValue as String	Codelist: Indhold
Tek035SløjfningsfristOlietank	Nullable DateTime (Must be UTC time and format)	Looping Oil tank deadline
Tek036Rumfang	Nullable Long	Volume
Tek037Areal	Nullable Long	Area
Tek038Højde	Nullable Long	Height
Tek039Effekt	Nullable Long	Effect
Tek040Fredning	CodeValue as String	Codelist: Fredning
Tek042Revisionsdato	Nullable DateTime (Must be UTC time and format)	Revision Date
Tek045Koordinatsystem	CodeValue as String	Codelist: Koordinatsystem
Tek067Fabrikationsår	Nullable Long	Production year
Tek068Materiale	CodeValue as String	Codelist: Materiale

Tek069SupplerendeIndvendigKorrosionsbeskyttelse	CodeValue as String	Codelist: Supplerende indvendig korrosionsbeskyttelse
Tek070DatoForSenestUdførteSupplerendeIndvendigKorrosionsbeskyttelse	Nullable DateTime (Must be UTC time and format)	Date for Latest Completed Additional Internal Corrosion Protection
Tek071TypegodkendelseCeMærkning	String	Type CE Mark approval
Tek072Sløjfningsår	Nullable Long	Looping year
Tek073Navhøjde	Nullable Double	Hub height
Tek074Vindmøllennummer	Nullable Long	Windmill number
Tek075Rotordiameter	Nullable Double	Rotor diameter
Tek101Gyldighedsdato	Nullable DateTime (Must be UTC time and format)	Validation date
Tek102FabrikatVindmølle	String	Windmill Manufacturer
Tek103FabrikatOliefyr	String	Oil heating Manufacturer
Tek104FabrikatSolcelleanlægSolvarme	String	Solar heating Manufacturer
Tek105OverdækningTank	String	Tank cover
Tek106InspektionsdatoTank	Nullable DateTime (Must be UTC time and format)	Tank Inspection Date
Tek107PlaceringPåSøterritorie	CodeValue as String	Codelist: På Sø Territorie
Tek110Driftstatus	CodeValue as String	Codelist: Driftstatus
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored.
SendBBRMessage	Boolean	Indicates whether BBR should send a BBR-message for this change
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.

All parameters are optional (if the property value passed to the service is null, the field will not be filled).

4.2.2.2 Output

The service returns a status structure, created object Id and list of validation messages in case of update failure. See [section 4.2.1.1](#).

4.2.2.3 Status

Name	Type	Description
------	------	-------------

StatusCode	Integer	<p>Status code, possible values:</p> <ul style="list-style-type: none"> • 1 - OK, • 11 - UpdateError, • 12 - ObjectNotFound, • 13 - InvalidRequest, • 14 - InvalidKommunekode, • 99 – UndefinedError <p>Additional codes might be added when needed</p>
Message	String	Status message (description)

4.2.3 UpdateTekniskAnlaeg

The operation is used to update specific fields of a technical installation (specified by Id).

4.2.3.1 Parameters

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	The Id of a Technical Installation
HusnummerId	BaseBBRUpdateStruct <Nullable UUID>	Identifier for address of object
Tek007Anlægsnummer	BaseBBRUpdateStruct <Nullable long>	Running number for the Tekniskanlaeg
Tek020Klassifikation	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Klassifikation
Tek021FabrikatType	BaseBBRUpdateStruct <String>	Manufacturer Type
Tek022EksternDatabase	BaseBBRUpdateStruct <String>	External Database
Tek023EksternNøgle	BaseBBRUpdateStruct <String>	External key
Tek024Etableringsår	BaseBBRUpdateStruct <Nullable Long>	Established
Tek025TilOmbygningsår	BaseBBRUpdateStruct <Nullable Long>	Year of construction
Tek026StørrelsesklasseOlietank	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Størrelsesklasse

Tek027Placering	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Placering
Tek028SløjfningOlietank	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Sløjfning
Tek030Fabrikationsnummer	BaseBBRUpdateStruct <String>	Production number
Tek031Typegodkendelsesnummer	BaseBBRUpdateStruct <String>	Type approval number
Tek032Størrelse	BaseBBRUpdateStruct <Nullable Long>	Size
Tek033Type	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Type af vægge
Tek034IndholdOlietank	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Indhold
Tek035SløjfningsfristOlietank	BaseBBRUpdateStruct <Nullable DateTime> (Must be UTC time and format)	Looping Oil tank deadline
Tek036Rumfang	BaseBBRUpdateStruct <Nullable Long>	Volume
Tek037Areal	BaseBBRUpdateStruct <Nullable Long>	Area
Tek038Højde	BaseBBRUpdateStruct <Nullable Long>	Height
Tek039Effekt	BaseBBRUpdateStruct <Nullable Long>	Effect
Tek040Fredning	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Fredning
Tek042Revisionsdato	BaseBBRUpdateStruct <Nullable DateTime> (Must be UTC time and format)	Revision Date
Tek045Koordinatsystem	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Koordinatsystem
Tek067Fabrikationsår	BaseBBRUpdateStruct <Nullable Long>	Production year
Tek068Materiale	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Materiale
Tek069SupplerendeIndvendigKorrosionsbeskyttelse	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Supplerende indvendig korrosionsbeskyttelse
Tek070DatoForSenestUdførteSupplerendeIndvendigKorrosionsbeskyttelse	BaseBBRUpdateStruct <Nullable DateTime>	Date for Latest Completed Additional Internal Corrosion Protection

	(Must be UTC time and format)	
Tek071TypegodkendelseCeMærkning	BaseBBRUpdateStruct <String>	Type CE Mark approval
Tek072Sløjfningsår	BaseBBRUpdateStruct <Nullable Long>	Looping year
Tek073Navhøjde	BaseBBRUpdateStruct <Nullable Double>	Hub height
Tek074Vindmøllennummer	BaseBBRUpdateStruct <Nullable Long>	Windmill number
Tek075Rotordiameter	BaseBBRUpdateStruct <Nullable Double>	Rotor diameter
Tek101Gyldighedsdato	BaseBBRUpdateStruct <Nullable DateTime> (Must be UTC time and format)	Validation date
Tek102FabrikatVindmølle	BaseBBRUpdateStruct <String>	Windmill Manufacturer
Tek103FabrikatOliefyr	BaseBBRUpdateStruct <String>	Oil heating Manufacturer
Tek104FabrikatSolcelleanlægSolvarme	BaseBBRUpdateStruct <String>	Solar heating Manufacturer
Tek105OverdækningTank	BaseBBRUpdateStruct <String>	Tank cover
Tek106InspektionsdatoTank	BaseBBRUpdateStruct <Nullable DateTime> (Must be UTC time and format)	Tank Inspection Date
Tek107PlaceringPåSøterritorie	BaseBBRUpdateStruct <CodeValue as String>	Codelist: På Sø Territorie
Tek110Driftstatus	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Driftstatus
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored.
SendBBRMessage	Boolean	Indicates whether BBR should send a BBR-message for this change
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.

All parameters (except the Id and IgnoreWarnings) are optional.

4.2.3.2 Output

The service returns a status structure and list of validation messages in case of update failure. See [section 4.2.1.1](#).

4.2.4 DeleteTekniskAnlaeg

DeleteTekniskAnlaeg operation allows to delete existing Teknisk Anlæg (set its status to deleted).

4.2.4.1 Parameters

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the TekniskAnlæg
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored.

4.2.4.2 Output

The service returns a status structure and list of validation messages in case of update failure. See [section 4.2.1.1](#).

4.2.5 UpdateBygning

The operation is used to update specific fields of a building (specified by Id).

4.2.5.1 Parameters

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	The Id of a Building
Byg030Vandforsyning	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Vandforsyning
Byg031Afløbsforhold	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Afløbsforhold
Byg119Udledningstilladelse	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Udledningstilladelse
Byg123MedlemskabAfSpildevandsforsyning	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Medlemsskab af splidevandforsyning
Byg124PåbudVedrSpildevandsafledning	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Rensningspåbud

Byg125FristVedrSpildevandsafledning	BaseBBRUpdateStruct <Nullable DateTime> (Must be UTC time and format)	Mandatory sewage disposal deadline (sample value: "2017-01-15T07:31:02Z")
Byg126TilladelseTilUdtræden	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Tilladelse til udtraeden
Byg127DatoForTilladelseTilUdtræden	BaseBBRUpdateStruct <Nullable DateTime> (Must be UTC time and format)	Date for Permission to withdrawal (sample value: "2017-01-15T07:31:02Z")
Byg128TilladelseTilAlternativBortskaffelse- EllerAflledning	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Tilladelse til alternativ bortskaffelse eller aflledning
Byg129DatoForTilladelseTilAlternativBortskaffelse- EllerAflledning	BaseBBRUpdateStruct <Nullable DateTime> (Must be UTC time and format)	Date for Permission for Alternate Disposal or Drainage (sample value: "2017-01-15T07:31:02Z")
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored.
SendBBRMessage	Boolean	Indicates whether BBR should send a BBR-message for this change
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.

All parameters (except the Id and IgnoreWarnings) are optional.

4.2.5.2 Output

The service returns a status structure and list of validation messages in case of update failure. See [section 4.2.1.1](#).

4.2.6 UpdateGrund

The operation is used to update specific fields of a ground (specified by Id).

4.2.6.1 Parameters

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	The Id of a Ground

Gru009Vandforsyning	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Vandforsyning
Gru010Afløbsforhold	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Afløbsforhold
Gru021Udledningstilladelse	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Udledningstilladelse
Gru022MedlemskabAfSpildevandsforsyning	BaseBBRUpdateStruct <String>	Codelist: Medlemsskab af splidevandforsyning
Gru023PåbudVedrSpildevandsafledning	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Rensningspåbud
Gru024FristVedrSpildevandsafledning	BaseBBRUpdateStruct <Nullable DateTime> (Must be UTC time and format)	Mandatory sewage disposal deadline (sample value: "2017-01-15T07:31:02Z")
Gru025TilladelseTilUdtræden	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Tilladelse til Udtræden
Gru026DatoForTilladelseTilUdtræden	BaseBBRUpdateStruct <Nullable DateTime> (Must be UTC time and format)	Date for Permission To Withdrawal (sample value: "2017-01-15T07:31:02Z")
Gru027TilladelseTilAlternativBortskaffelseEllerAflledning	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Tilladelse til alternativ bortskaffelse eller aflledning
Gru028DatoForTilladelseTilAlternativBortskaffelseEllerAflledning	BaseBBRUpdateStruct <Nullable DateTime> (Must be UTC time and format)	Date for Permission for Alternate Disposal or Drainage (sample value: "2017-01-15T07:31:02Z")
Gru029DispensationFritagelse-IftKollektivVarmeforsyning	BaseBBRUpdateStruct <CodeValue as String>	Codelist: Dispensation fritagelse Ift kollektiv varmforsyning
Gru030DatoForDispensationFritagelse-IftKollektivVarmeforsyning	BaseBBRUpdateStruct <Nullable DateTime> (Must be UTC time and format)	Date for Dispensation from Collective Heat
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored.
SendBBRMessage	Boolean	Indicates whether BBR should send a BBR-message for this change
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.

All parameters (except the Id and IgnoreWarnings) are optional.

4.2.6.2 Output

The service returns a status structure and list of validation messages in case of update failure. See [section 4.2.1.1](#).

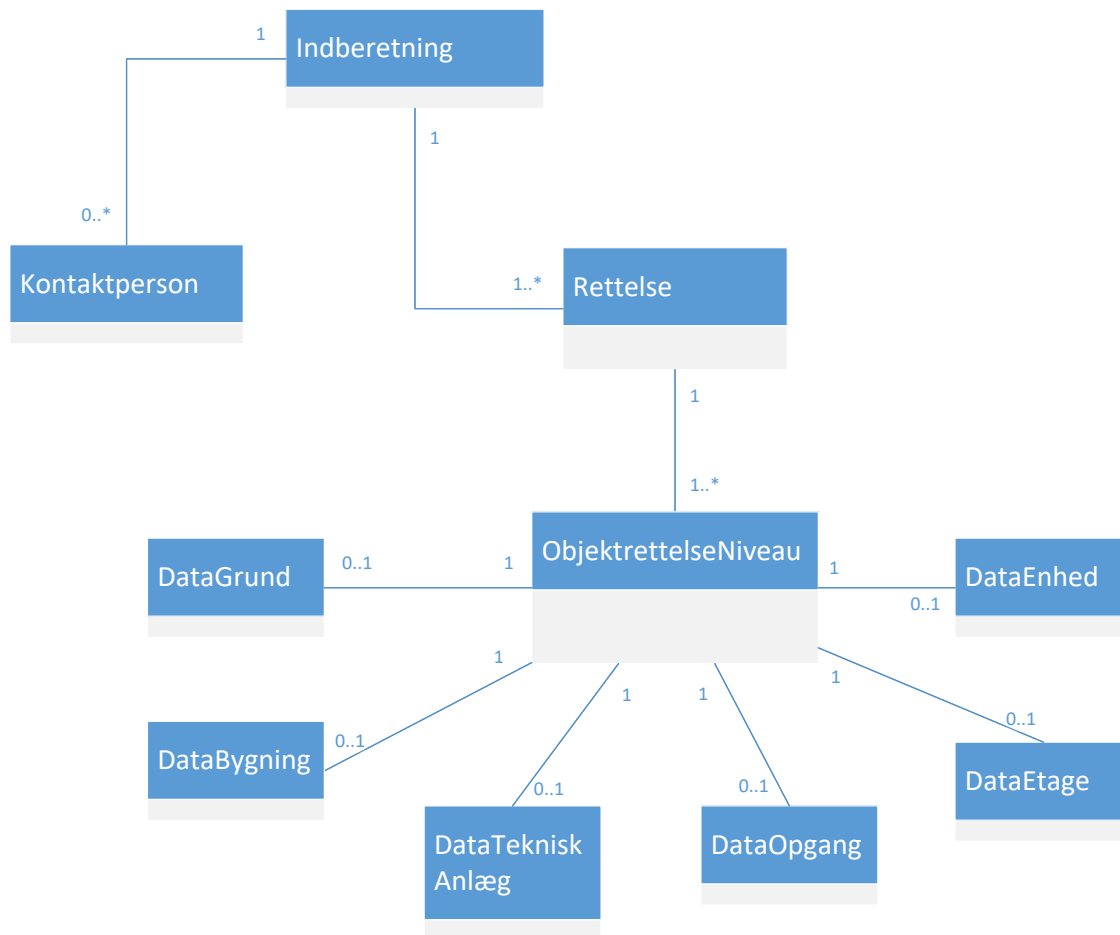
4.3 Indberetning

In BBR one of the strategies employed to have up-to-date data, is that other systems can request changes in BBR data, which then have to be approved by the Municipality. This is done through a concept called “Structured Enquiries”– in this document referred to as simply Indberetninger. An Indberetning can be made by the owner or by people reporting on behalf of the owner. Any time the municipality receives information about a change in the BBR data, it is considered a Indberetninger.

This service accepts Indberetninger from clients, structured in a fashion that corresponds with BBR data structures. The service supports changes to all six entity types: Grund, Bygning, TekniskAnlæg, Opgang, Etage, and Enhed. Furthermore, it also supports creation of Enhed, Etage, Opgang, Bygning and TekniskAnlæg. Movement of Entities of type Enhed is also supported, but only within the same Bygning. Deletion of Bygning, TekniskAnlæg and Enhed is supported as well.

The service is a “delta” service in the regard that only some IDs are required along with some metadata such as contact information, other than that, a Indberetning only needs to specify values to the object properties that should change.

The Indberetning structure is such that one Indberetning must have one or more Rettelse objects. Each Rettelse then has one or more ObjektrettelseNiveau of which exactly 1 must be of type Grund, Bygning, or TekniskAnlæg. ObjektrettelseNiveau then points to a Indberetning DataObjekt of an Entity type matching its base object, i.e. an ObjektrettelseNiveau of type Bygning has a IndberetningDataObjekt of type Bygning. The IndberetningDataObjekt contains all the changes desired for the object. Lastly, the Indberetning can also have a list of Kontaktpersoner, commonly found when the Indberetning is created by people who do not own the affected elements. For a visual representation of the structure, see following figure:



All Rettelse objects are checked for DirekteIndberetning, if such are found they are applied immediately (asynchronously) if the source has the necessary access rights.

When the service-call finishes, it returns a message and a success status. If the Indberetning is added successfully the message is empty and the success true, otherwise the message will describe what went wrong and success will be false.

Provider	Area	Value
BBR 2.3	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	SOAP
	Security	STS (SAML Token) – Global Scope or Client certificates – Global Scope
	Address	Preprod via STS: https://pp2-sg.bbr.dk/External/IndberetningServiceV5 Preprod via client certificates: https://pp2-sg.bbr.dk/External/IndberetningCertificateServiceV5

4.3.1 Limitations

There are a few things that can not be created through this service, here is a list of the most common limitations.

- It is not possible to create a new complex Bygning, meaning a Bygning with Opgang, Etage and Enhed. It is only possible to create a new Bygning alone. Alternatively one can create a change on an existing Bygning which adds Opgang, Etage and Enhed.
- It is not possible to create new Etage on existing Bygnings

4.3.2 AddIndberetning

AddIndberetning operation allows to create new Indberetninger.

4.3.2.1 Parameters

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Kommunekode	String	Kommunekode (4 digit)
Ejendomsnummer	String	
Bfe	String	BFE number
Email	String	E-mail address
Indberetningstype	String	
IndsendelsesDato	DateTime	
Kilde	String	
Navn	String	
PID	String	
RID	String	
Rolle	String	
Telefon	String	
BomRisiko	Boolean	
Bemærkning	String	
Rettelse_Indberetning	List<AddRettelse20Dto>	
Kontaktperson_Indberetning	List<AddKontaktperson20Dto>	
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction.

		If not provided BBR will generate an internal transaction ID.
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AddRettelse20Dto

Name	Type	Description
ObjekttrettelseNiveau_Rettelse	List<AddObjekttrettelseNiveau20Dto>	
ReasonForChange	Nullable Enum	Reasons can be: 1 – Ændringerne skyldes et byggearbejde 2 – Ændringerne skyldes et byggearbejde, kommunen er allerede informeret 3 – Ændringerne skyldes en fejlrettelse 4 – Ændringerne skyldes en fejlrettelse, kommunen er allerede informeret

AddObjekttrettelseNiveau20Dto

Name	Type	Description
Ny	Boolean	
Slet	Boolean	By setting "Slet" to true, it is possible to delete Bygning, Enhed, and Teknisk Anlæg.
EntitetType	String	
IndberetningDataGrund	AddIndberetningGrund20Dto	Refer to "IndberetningData objects" section for description
IndberetningDataBygning	AddIndberetningBygning20Dto	Refer to "IndberetningData objects" section for description
IndberetningDataTekniskAnlæg	AddIndberetningTekniskAnlæg20Dto	Refer to "IndberetningData objects" section for description
IndberetningDataOpgang	AddIndberetningOpgang20Dto	Refer to "IndberetningData objects" section for description
IndberetningDataEtag	AddIndberetningEtag20Dto	Refer to "IndberetningData objects" section for description
IndberetningDataEnhed	AddIndberetningEnhed20Dto	Refer to "IndberetningData objects" section for description

AddKontaktperson20Dto

Name	Type	Description
Email	String	E-mail address
Navn	String	Name
Rolle	String	Role
Telefon	String	Telephone number

AddHenvendelseNotatlinie20Dto

Name	Type	Description
Linienummer	Long	(id) linenummer of the note
Notatlinietekst	String	The text in the note
Slet	Boolean	Flag if should be removed

The input structure must follow these rules:

- The Indberetning must have at least 1 Rettelse
- A Rettelse must have at least 1 ObjektrettelseNiveau, of which exactly 1 must be a “Primary Entity”, meaning it is of type Grund, Bygning, or TekniskAnlæg
- For each ObjektrettelseNiveau:
 - Must contain 1 and only 1 data object
 - The field EntitetType on ObjektrettelseNiveau's must be of a recognizable format, and it must match data object
 - Unless the “Ny” Boolean is set to true, which indicates the creation of a new object, the Id field must be set to a valid Id from a current BBR object of the given type
 - When deleting an object by setting the “Slet” Boolean to true, the IndberetningData elements must be empty. As such, only the Id, EntitetType and Slet Boolean properties should be specified when deleting.
- All codeValue strings correspond to valid codeValues

If any of the validity checks fail, an error message will be returned telling the client why the input did not pass the validity check.

4.3.2.2 IndberetningData objects

The information the Indberetning wants to change is stored in Data objects.

Many of the values are based on codelists, these will have the type “CodeValue as string”.

4.3.2.2.1 DataGrund

Field	Type	Description
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Husnummer_id	Nullable uuid	Identifier for address of object
Gru009Vandforsyning	CodeValue as string	Codelist: Vandforsyning
Gru010Afløbsforhold	CodeValue as string	Codelist: Afløbsforhold
Gru021Udledningstilladelse	CodeValue as string	Codelist: Udledningstilladelse
Gru022MedlemskabAfSpildevandsforsyning	CodeValue as string	Codelist: Medlemskab af spildevandsforsyning
Gru023PåbudVedrSpildevandsafledning	String	
Gru024FristVedrSpildevandsafledning	Nullable DateTime	
Gru025TilladelseTilUdtræden	CodeValue as string	Codelist: Tilladelse til udtræden
Gru026DatoForTilladelseTilUdtræden	Nullable DateTime	
Gru027TilladelseTilAlternativBortskaffelseEllerAfledning	CodeValue as string	Codelist: Tilladelse til alternativ bortskaffelse
Gru028DatoForTilladelseTilAlternativBortskaffelseEllerAfledning	Nullable DateTime	
Gru029DispensationFritagelseIftKollektivVarmeforsyning	CodeValue as string	Codelist: Disp. ift. kollektiv varmforsyning
Gru030DatoForDispensationFritagelseIftKollektivVarmeforsyning	Nullable DateTime	

4.3.2.2.2 DataBygning

As ObjectrettelseNiveau with DataBygning is required for Indberetninger regarding Opgang, Etage or Enhed, it can be necessary to create a DataBygning object that holds no values.

Field	Type	Description
Husnummer_id	Nullable uuid	Identifier for address of object. This property is required when creating a new Bygning.
Jordstykke_id	Nullable uuid	Specifies the Matrikel of the Bygning. This property is required when creating a new Bygning.
Byg007Bygningsnummer	Nullable long	This property is required when creating a new Bygning.
Byg021BygningensAnvendelse	CodeValue as string	Codelist: Bygningsanvendelse This property is required when creating a new Bygning.
Byg026Opførelsesår	Nullable long	
Byg027OmTilbygningsår	Nullable long	It can be set to NULL by providing a "-1" value

Byg028MidlertidigOprettelseFuldførelse	CodeValue as string	Codelist: Midlertidig oprettelse eller fuldførelse
Byg029DatoForMidlertidigOpførtBygning	Nullable DateTime	
Byg030Vandforsyning	CodeValue as string	Codelist: Vandforsyning
Byg031Afløbsforhold	CodeValue as string	Codelist: Afløbsforhold
Byg032YdervæggensMateriale	CodeValue as string	Codelist: Ydervæggens materiale
Byg033Tagdækningsmateriale	CodeValue as string	Codelist: Tagdækningsmateriale
Byg034SupplerendeYdervæggensMateriale	CodeValue as string	Codelist: Ydervæggens materiale
Byg035SupplerendeTagdækningsMateriale	CodeValue as string	Codelist: Tagdækningsmateriale
Byg036AsbestholdigtMateriale	CodeValue as string	Codelist: Asbestholdigt materiale
Byg037KildeTilBygningensMaterialer	CodeValue as string	Codelist: Kilde til oplysninger
Byg038SamletBygningsareal	Nullable long	It can be set to NULL by providing a "-1" value
Byg039BygningensSamledeBoligAreal	Nullable long	It can be set to NULL by providing a "-1" value
Byg040BygningensSamledeErhvervsAreal	Nullable long	It can be set to NULL by providing a "-1" value
Byg041BebyggetAreal	Nullable long	It can be set to NULL by providing a "-1" value
Byg042ArealIndbyggetGarage	Nullable long	It can be set to NULL by providing a "-1" value
Byg043ArealIndbyggetCarport	Nullable long	
Byg044ArealIndbyggetUdhus	Nullable long	It can be set to NULL by providing a "-1" value
Byg045ArealIndbyggetUdestueEllerLign	Nullable long	It can be set to NULL by providing a "-1" value
Byg046SamletArealAfLukkedeOverdækningerPåBygningen	Nullable long	It can be set to NULL by providing a "-1" value
Byg047ArealAfAffaldsrumITerrænniveau	Nullable long	It can be set to NULL by providing a "-1" value
Byg048AndetAreal	Nullable long	It can be set to NULL by providing a "-1" value
Byg049ArealAfOverdækketAreal	Nullable long	It can be set to NULL by providing a "-1" value
Byg051Adgangsareal	Nullable long	It can be set to NULL by providing a "-1" value
Byg053BygningsarealerKilde	CodeValue as string	Codelist: Kilde til oplysninger
Byg054AntalEtager	Nullable long	
Byg055AfvigendeEtager	CodeValue as string	Codelist: Afvigende etager
Byg056Varmeinstallation	CodeValue as string	Codelist: Varmeinstallation

Byg057Opvarmningsmiddel	CodeValue as string	Codelist: Opvarmningsmiddel
Byg058SupplerendeVarme	CodeValue as string	Codelist: Supplerende varme
Byg063ArealAfIndbyggetGarageIKælder	Nullable long	It can be set to NULL by providing a "-1" value
Byg069Sikringsrumpladser	Nullable long	
Byg070Fredning	CodeValue as string	Codelist: Fredning
Byg071BevaringsværdighedReference	String	
Byg111StormrådetsOversvømmelsesSelvrisk ko	CodeValue as string	Codelist: Oversvømmelsesselvrisiko
Byg112DatoForRegistreringFraStormrådet	Nullable DateTime	
Byg113Byggeskadeforsikringsselskab	CodeValue as string	Codelist: Byggeskadeforsikringsselskab
Byg114DatoForByggeskadeforsikring	Nullable DateTime	
Byg119Udledningstilladelse	CodeValue as string	Codelist: Udledningstilladelse
Byg121OmfattetAfByggeskadeforsikring	CodeValue as string	Codelist: Omfattet af byggeskadeforsikring
Byg122Gyldighedsdato	Nullable DateTime	
Byg123MedlemskabAfSpildevandsforsyning	CodeValue as string	Codelist: Medlemskab af spildevandsforsyning
Byg124PåbudVedrSpildevandsafledning	String	
Byg125FristVedrSpildevandsafledning	Nullable DateTime	
Byg126TilladelseTilUdtræden	CodeValue as string	Codelist: Tilladelse til udtræden
Byg127DatoForTilladelseTilUdtræden	Nullable DateTime	
Byg128TilladelseTilAlternativBortskaffelseEllerAfledning	CodeValue as string	Codelist: Tilladelse til alternativ bortskaffelse
Byg129DatoForTilladelseTilAlternativBortskaffelseEllerAfledning	Nullable DateTime	
Byg130ArealAfUdvendigEfterisolering	Nullable long	It can be set to NULL by providing a "-1" value
Byg131DispensationFritagelseIftKollektivVarmeforsyning	CodeValue as string	Codelist: Disp. ift. kollektiv varmforsyning
Byg132DatoForDispensationFritagelseIftKollektivVarmeforsyning	Nullable DateTime	
Byg136PlaceringPåSøterritorie	CodeValue as string	Codelist: Bygværk på søterritorie
Byg137BanedanmarkBygværksnummer	String	

Byg133KildeTilKoordinatsæt	CodeValue as String	Codelist: Kilde til koordinatsæt
Byg134KvalitetAfKoordinatsæt	CodeValue as String	Codelist: Kvalitet af koordinatsæt
Byg141Dækningsafgift	CodeValue as String	Codelist values: Kodelister - BBR Teknik
Byg404Koordinat	String (WKT)	Well Known Text representation of coordinates (geometry)
Byg406Koordinatsystem	CodeValue as String	Codelist: Koordinatsystem
Byg403ØvrigeBemærkningerFraStormrådet	String	

4.3.2.2.3 DataTekniskAnlæg

Field	Type	Description
Husnummer_id	Nullable uuid	Identifier for address of object. When creating a new Teknisk Anlæg this property is required if the object is placed in a Bygning or Enhed.
Jordstykke_id*	Nullable uuid	Identifier for Matrikel that the Teknisk Anlæg is placed on. Used when creating new Teknisk Anlæg.
Bygning_id*	Nullable uuid	Identifier for Bygning that the Teknisk Anlæg is placed in. Used when creating new Teknisk Anlæg.
Enhed_id*	Nullable uuid	Identifier for Enhed that the Teknisk Anlæg is placed in. Used when creating new Teknisk Anlæg.
Tek007Anlægsnummer	Nullable long	This property is required when creating a new Teknisk Anlæg.
Tek020Klassifikation	CodeValue as string	Codelist: Klassifikation This property is required when creating a new Teknisk Anlæg.
Tek021FabrikatType	string	
Tek022EksternDatabase	string	
Tek023EksternNøgle	String	
Tek024Etableringsår	Nullable long	

Tek025TilOmbygningsår	Nullable long	
Tek026StørrelsesklasseOlietank	CodeValue as string	Codelist: Størrelsesklasse
Tek027Placering	CodeValue as string	Codelist: Placering
Tek028SløjfningOlietank	CodeValue as string	Codelist: Sløjfning
Tek030Fabrikationsnummer	string	
Tek031Typegodkendelsesnummer	string	
Tek032Størrelse	Nullable long	
Tek033Type	string	
Tek034IndholdOlietank	CodeValue as string	Codelist: Indhold
Tek035SløjfningsfristOlietank	Nullable DateTime	
Tek036Rumfang	Nullable long	
Tek037Areal	Nullable long	
Tek038Højde	Nullable long	
Tek039Effekt	Nullable long	
Tek040Fredning	CodeValue as string	Codelist: Fredning
Tek042Revisionsdato	Nullable DateTime	
Tek076KildeTilKoordinatsæt	CodeValue as String	Codelist: Kilde til koordinatsæt
Tek077KvalitetAfKoordinatsæt	CodeValue as String	Codelist: Kvalitet af koordinatsæt
Tek109Koordinat	String (WKT)	Well Known Text representation of coordinates (geometry)
Tek045Koordinatsystem	CodeValue as String	Codelist: Koordinatsystem
Tek069SupplerendeIndvendigKorrosionsbeskyttelse	CodeValue as string	Codelist: Suppl. indvendig korrosionsbeskyttelse
Tek070DatoForSenestUdførteSupplerendeIndvendigKorrosionsbeskyttelse	Nullable DateTime	
Tek071TypegodkendelseCeMærkning	string	
Tek072Sløjfningsår	Nullable long	
Tek073Navhøjde	Nullable double	

Tek074Vindmøllenummer	Nullable long	
Tek075Rotordiameter	Nullable double	
Tek101Gyldighedsdato	Nullable DateTime	
Tek102FabrikatVindmølle	string	
Tek103FabrikatOliefyr	string	
Tek104FabrikatSolcelleanlægSolvarme	string	
Tek105OverdækningTank	string	
Tek106InspektionsdatoTank	Nullable DateTime	
Tek107PlaceringPåSøterritorie	CodeValue as string	Codelist: Bygværk på søterritorie
Tek110Driftstatus	string	

*One of the following references must be specified when creating a new Teknisk Anlæg: Jordstykke_id, Bygning_id or Enhed_id.

4.3.2.2.4 DataOpgang

Field	Type	Description
AdgangFraHusnummer_id	Nullable uuid	Identifier for address of object
Bygning_id*	Nullable uuid	Identifier of Bygning object is placed in
Opg020Elevator	CodeValue as string	Codelist: Elevator

*Only used for creation of new Opgang

4.3.2.2.5 DataEtage

Field	Type	Description
Bygning_id*	Nullable uuid	Identifier of Bygning object is placed in
Eta006BygningensEtagebetegnelse	string	
Eta020SamletArealAfEtage	Nullable long	
Eta021ArealAfUdnyttetDelAfTagetage	Nullable long	
Eta022Kælderareal	Nullable long	
Eta023ArealAfLovligBeboelseKælder	Nullable long	
Eta025Etagestype	CodeValue as string	Codelist: Etagestype
Eta026Erhvervskælder	Nullable long	

*Only used for creation of new Etage

4.3.2.2.6 DataEnhed

Field	Type	Description
Opgang_id*	Nullable uuid	Identifier of Opgang object is placed in
Etage_id*	Nullable uuid	Identifier of Etage object is placed on
OpgangHusnummerId**	Nullable uuid	Identifier of address for Opgang
BygningsEtageBetegelse***	string	Notation for Etage opgang is placed on
Adresse_id	Nullable uuid	Identifier of Enheds address
Enh020EnhedensAnvendelse	CodeValue as string	Codelist: Enhedsanvendelse
Enh023Boligtype	CodeValue as string	Codelist: Boligtype
Enh024KondemneretBoligenhed	CodeValue as string	Codelist: Kondemneret boligenhed
Enh025OprettelsesdatoForEnhedensIdentifikation	Nullable DateTime	
Enh026EnhedensSamledeAreal	Nullable long	It can be set to NULL by providing a "-1" value
Enh027ArealTilBeboelse	Nullable long	It can be set to NULL by providing a "-1" value
Enh028ArealTilErhverv	Nullable long	It can be set to NULL by providing a "-1" value
Enh030KildeTilEnhedensArealer	CodeValue as string	Codelist: Kilde til oplysninger
Enh031AntalVærelser	Nullable long	It can be set to NULL by providing a "-1" value
Enh032Toiletforhold	CodeValue as string	Codelist: Toiletforhold
Enh033Badeforhold	CodeValue as string	Codelist: Badeforhold
Enh034Køkkenforhold	CodeValue as string	Codelist: Køkkenforhold
Enh035Energiforsyning	CodeValue as string	Codelist: Energiforsyning
Enh039AndetAreal	Nullable long	It can be set to NULL by providing a "-1" value
Enh041LovligAnvendelse	CodeValue as string	Codelist: Lovlig anvendelse
Enh042DatoForTidsbegrænsetDispensation	Nullable DateTime	
Enh044DatoForDelvisbrugtagningstilladelse	Nullable DateTime	
Enh045Udlejningsforhold	CodeValue as string	Codelist: Udlejningsforhold
Enh046OffentligStøtte	CodeValue as string	Codelist: Offentlig støtte
Enh047IndflytningDato	Nullable DateTime	

Enh048GodkendtTomBolig	CodeValue as string	Codelist: Godkendt tom bolig
Enh051Varmeinstallation	CodeValue as string	Codelist: Varmeinstallation
Enh052Opvarmningsmiddel	CodeValue as string	Codelist: Opvarmningsmiddel
Enh053SupplerendeVarme	CodeValue as string	Codelist: Supplerende varme
Enh059EnhedensAndelI FællesBoligareal	Nullable long	It can be set to NULL by providing a “-1” value
Enh060EnhedensAndelI FællesAdgangsareal	Nullable long	It can be set to NULL by providing a “-1” value
Enh062ArealAfLukketOverdækningUdestue	Nullable long	It can be set to NULL by providing a “-1” value
Enh063AntalVærelserTilErhverv	Nullable long	
Enh065AntalVandskylledeToiletter	Nullable long	It can be set to NULL by providing a “-1” value
Enh066AntalBadeværelser	Nullable long	It can be set to NULL by providing a “-1” value
Enh067Støjisolering	Nullable long	
Enh070TagterasseAreal	Nullable long	It can be set to NULL by providing a “-1” value
Enh101Gyldighedsdato	Nullable DateTime	
Enh141Dækningsafgift	CodeValue as String	Codelist: Enhedens dækningsafgift

* Changes must be in the same Bygning as current.

** Used for creation of new Enhed and only if Opgang_id is not defined (usually happens when Enhed and Opgang are created with the same Indberetning).

*** Used for creation of new Enhed and only if Etage_id is not defined (usually happens when Enhed and Etage are created with the same Indberetning).

4.3.2.3 Output

Name	Type	Description
Succes	Boolean	Flag indicating if the operation was successful
Message	String	Output message
IndberetningId	Guid	Id of the newly created Indberetning

5 System snitflader (Services for specific systems/organizations)

This section describes services that are designed for a specific external system. They are generally not made available to any other clients.

5.1 SKAT - Update services

The purpose of those services is to provide generic CUD (Create/Update/Delete) services for BBR objects, as well as specific services for updating geometry (geokodning). Their purpose is for the registry owner (UFST former SKAT) to perform bulk updates in BBR data from external clients.

All CUD services correspond to working from BBR Kommune and runs with the same validation rules.

The services are limited to "stam-data" for create and delete operations, and "stam-data" and "nybyggeri-data" for update operations.

Provider	Area	Value
BBR 2.4.5	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	SOAP
	Security	STS (SAML Token) – Global Scope or Client certificates – Global Scope
	Address	Preprod via STS: https://pp2-sg.bbr.dk/External/SKATServiceV6 Preprod via client certificates: https://pp2-sg.bbr.dk/External/SKATCertificateServiceV6

5.1.1 General

5.1.1.1 Time format

All Datetime type fields must be filled with UTC time and format.

5.1.1.2 Output

All service operations have the same output structure which is shown in the following table.

Name	Type	Description
Status	Status (described in section 5.1.1.3)	Response status
ValidationErrors	Array of ValidationMessage	Each ValidationMessage contains: <ul style="list-style-type: none"> • ValidationCode (String) • Description (String) • Type (Enum) possible values: Warning, Error
ObjectId	UUID	ID of created object, only used on Create services.

5.1.1.3 BBRUpdateStruct

All fields in the [Entityname]UpdateData is of type BBRUpdateStruct<T>. This type has a Boolean ValueUpdated and a fieldvalue. The field will **only** be updated in BBR if ValueUpdated is set to true.

This allows deletion of data values by setting ValueUpdate to true, and setting the fieldvalue to NULL.

5.1.1.4 Status

Name	Type	Description
StatusCode	Integer	Status code, possible values: <ul style="list-style-type: none"> 1 - OK, 11 - UpdateError, 12 - ObjectNotFound, 13 - InvalidRequest, 14 - InvalidKommunekode, 99 – UndefinedError Additional codes might be added when needed
Message	String	Status message (description)

5.1.1.5 NotatlinjeUpdateData

Name	Type	Description
Nummer	Integer	Line number of the note
Tekst	String	Note text
Delete	Boolean	Flag indicating if note with given line number should be removed.

5.1.1.6 NotatlinjeCreateData

Name	Type	Description
Nummer	Integer	Line number of the note
Tekst	String	Note text

5.1.2 Grund

5.1.2.1 GrundUpdate

GrundUpdate allows an update of an existing Grund.

The following table describes the input parameters allowed.

Name	Type	Description
------	------	-------------

selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the Grund
Data	GrundUpdateData	Grund data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
ManuelAarsagskodemtekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodemtekst is manually defined by the user.

The following table describes the GrundUpdateData structure. No fields are required, and if not provided the field will not be updated.

Field	Type	Description
Husnummer_id	Nullable uuid	Identifier for address of object
Gru009Vandforsyning	BBRUpdateStruct <CodeValue as string>	Codelist: Vandforsyning
Gru010Afløbsforhold	BBRUpdateStruct <CodeValue as string>	Codelist: Afløbsforhold
Gru021Udledningstilladelse	BBRUpdateStruct <CodeValue as string>	Codelist: Udledningstilladelse
Gru022MedlemskabAfSpildevandsforsyning	BBRUpdateStruct <CodeValue as string>	Codelist: Medlemskab af spildevandsforsyning
Gru023PåbudVedrSpildevandsafledning	BBRUpdateStruct <CodeValue as string>	Codelist: Rensningspåbud

Gru024FristVedrSpildevandsafledning	BBRUpdateStruct <Nullable DateTime>	
Gru025TilladelseTilUdtræden	BBRUpdateStruct <CodeValue as string>	Codelist: Tilladelse til udtræden
Gru026DatoForTilladelseTilUdtræden	BBRUpdateStruct <Nullable DateTime>	
Gru027TilladelseTilAlternativBortskaffelseEllerAfledning	BBRUpdateStruct <CodeValue as string>	Codelist: Tilladelse til alternativ bortskaffelse
Gru028DatoForTilladelseTilAlternativBortskaffelseEllerAfledning	BBRUpdateStruct <Nullable DateTime>	
Gru029DispensationFritagelseIftKollektivVarmeforsyning	BBRUpdateStruct <CodeValue as string>	Codelist: Disp. ift. kollektiv varmforsyning
Gru030DatoForDispensationFritagelseIftKollektivVarmeforsyning	BBRUpdateStruct <Nullable DateTime>	
Notatlinje	Array of NotatlinjeUpdateData	List of notes associated with the object

5.1.3 Bygning

5.1.3.1 BygningCreate

BygningCreate allows creation of a new Bygning in BBR.

The following table describes the input parameters allowed.

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Kommunekode	String	Kommunekode (4 digit), required.
Data	BygningCreateData	Bygning data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see "BBR Services Validation" chapter for more details.

SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
ManuelAarsagskodedetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodedetekst is manually defined by the user.

The following table describes the BygningCreate structure.

Field	Type	Description
Husnummer_id	UUID	Identifier for address of object
Jordstykke_id	UUID	Identifier for Matrikel object is placed on
Byg007Bygningsnummer	Nullable long	In Create calls BBR will automatically set next available number if this is left as NULL
Byg021BygningensAnvendelse	CodeValue as string	Codelist: Bygningsanvendelse
Byg026Opførelsesår	Nullable long	
Byg027OmTilbygningsår	Nullable long	
Byg028MidlertidigOprettelseFuldførelse	CodeValue as string	Codelist: Midlertidig oprettelse eller fuldførelse
Byg029DatoForMidlertidigOpførtBygning	Nullable DateTime	
Byg030Vandforsyning	CodeValue as string	Codelist: Vandforsyning
Byg031Afløbsforhold	CodeValue as string	Codelist: Afløbsforhold
Byg032YdervæggensMateriale	CodeValue as string	Codelist: Ydervæggens materiale
Byg033Tagdækningsmateriale	CodeValue as string	Codelist: Tagdækningsmateriale
Byg034SupplerendeYdervæggensMateriale	CodeValue as string	Codelist: Ydervæggens materiale
Byg035SupplerendeTagdækningsMateriale	CodeValue as string	Codelist: Tagdækningsmateriale
Byg036AsbestholdigtMateriale	CodeValue as string	Codelist: Asbestholdigt materiale
Byg037KildeTilBygningensMaterialer	CodeValue as string	Codelist: Kilde til oplysninger
Byg038SamletBygningsareal	Nullable long	
Byg039BygningensSamledeBoligAreal	Nullable long	

Byg040BygningensSamledeErhvervsAreal	Nullable long	
Byg041BebyggetAreal	Nullable long	
Byg042ArealIndbyggetGarage	Nullable long	
Byg043ArealIndbyggetCarport	Nullable long	
Byg044ArealIndbyggetUdhus	Nullable long	
Byg045ArealIndbyggetUdestueEllerLign	Nullable long	
Byg046SamletArealAfLukkedeOverdækningerPåBygningen	Nullable long	
Byg047ArealAfAffaldsrumITerrænniveau	Nullable long	
Byg048AndetAreal	Nullable long	
Byg049ArealAfOverdækketAreal	Nullable long	
Byg051Adgangsareal	Nullable long	
Byg053BygningsarealerKilde	CodeValue as string	Codelist: Kilde til oplysninger
Byg054AntalEtager	Nullable long	
Byg055AfvigendeEtager	CodeValue as string	Codelist: Afvigende etager
Byg056Varmeinstallation	CodeValue as string	Codelist: Varmeinstallation
Byg057Opvarmningsmiddel	CodeValue as string	Codelist: Opvarmningsmiddel
Byg058SupplerendeVarme	CodeValue as string	Codelist: Supplerende varme
Byg063ArealAfIndbyggetGarageIKælder	Nullable long	
Byg069Sikringsrumpladser	Nullable long	
Byg070Fredning	CodeValue as string	Codelist: Fredning
Byg071BevaringsværdighedReference	String	
Byg111StormrådetsOversvømmelsesSelvrisk	CodeValue as string	Codelist: Oversvømmelsesselvrisko
Byg112DatoForRegistreringFraStormrådet	Nullable DateTime	
Byg113Byggeskadeforsikringsselskab	CodeValue as string	Codelist: Byggeskadeforsikringsselskab
Byg114DatoForByggeskadeforsikring	Nullable DateTime	
Byg119Udledningstilladelse	CodeValue as string	Codelist: Udledningstilladelse
Byg121OmfattetAfByggeskadeforsikring	CodeValue as string	Codelist: Omfattet af byggeskadeforsikring

Byg122Gyldighedsdato	Nullable DateTime	
Byg123MedlemskabAfSpildevandsforsyning	CodeValue as string	Codelist: Medlemskab af spildevandsforsyning
Byg124PåbudVedrSpildevandsafledning	String	
Byg125FristVedrSpildevandsafledning	Nullable DateTime	
Byg126TilladelseTilUdtræden	CodeValue as string	Codelist: Tilladelse til udtræden
Byg127DatoForTilladelseTilUdtræden	Nullable DateTime	
Byg128TilladelseTilAlternativBortskaffelseEllerAfledning	CodeValue as string	Codelist: Tilladelse til alternativ bortskaffelse
Byg129DatoForTilladelseTilAlternativBortskaffelseEllerAfledning	Nullable DateTime	
Byg130ArealAfUdvendigEfterisolering	Nullable long	
Byg131DispensationFritagelseIftKollektivVarmeforsyning	CodeValue as string	Codelist: Disp. ift. kollektiv varmforsyning
Byg132DatoForDispensationFritagelseIftKollektivVarmeforsyning	Nullable DateTime	
Byg136PlaceringPåSøterritorie	CodeValue as string	Codelist: Bygværk på søterritorie
Byg137BanedanmarkBygværksnummer	String	
Byg141Dækningsafgift	CodeValue as String	Codelist values: Bygningens dækningsafgift
Byg403ØvrigeBemærkningerFraStormrådet	String	
Byg133KildeTilKoordinatsæt	CodeValue as String	Codelist: Kilde til koordinatsæt
Byg134KvalitetAfKoordinatsæt	CodeValue as String	Codelist: Kvalitet af koordinatsæt
Byg404Koordinat	String (WKT)	Well Known Text representation of coordinates (geometry)
Byg406Koordinatsystem	CodeValue as String	Codelist: Koordinatsystem
Notatlinje	Array of NotatlinjeCreateData	List of notes associated with the object

5.1.3.2 BygningUpdate

BygningUpdate allows an update of an existing Bygning.

The following table describes the input parameters allowed. For output structure see [Section](#).

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the Bygning
Data	BygningUpdateData	Bygning data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
ManuelAarsagskodetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodetekst is manually defined by the user.

The following table describes the BygningUpdateData structure. No fields are required, and if not provided the field will not be updated.

Field	Type	Description
Husnummer_id	BBRUpdateStruct <Nullable uuid>	Identifier for address of object
Jordstykke_id	BBRUpdateStruct <Nullable uuid>	Identifier for jordstykke of object
Grund_id	BBRUpdateStruct <Nullable uuid>	Identifier for grund of object When this field is set, a building's jordstykkeilknytning is updated.
Byg007Bygningsnummer	BBRUpdateStruct <Nullable long>	
Byg021BygningensAnvendelse	BBRUpdateStruct <CodeValue as string>	Codelist: Bygningsanvendelse

Byg026Opførelsesår	BBRUpdateStruct <Nullable long>	
Byg027OmTilbygningsår	BBRUpdateStruct <Nullable long>	
Byg028MidlertidigOprettelseFuldførelse	BBRUpdateStruct <CodeValue as string>	Codelist: Midlertidig oprettelse eller fuldførelse
Byg029DatoForMidlertidigOpførtBygning	BBRUpdateStruct <Nullable DateTime>	
Byg030Vandforsyning	BBRUpdateStruct <CodeValue as string>	Codelist: Vandforsyning
Byg031Afløbsforhold	BBRUpdateStruct <CodeValue as string>	Codelist: Afløbsforhold
Byg032YdervæggensMateriale	BBRUpdateStruct <CodeValue as string>	Codelist: Ydervæggens materiale
Byg033Tagdækningsmateriale	BBRUpdateStruct <CodeValue as string>	Codelist: Tagdækningsmateriale
Byg034SupplerendeYdervæggensMateriale	BBRUpdateStruct <CodeValue as string>	Codelist: Ydervæggens materiale
Byg035SupplerendeTagdækningsMateriale	BBRUpdateStruct <CodeValue as string>	Codelist: Tagdækningsmateriale
Byg036AsbestholdigtMateriale	BBRUpdateStruct <CodeValue as string>	Codelist: Asbestholdigt materiale
Byg037KildeTilBygningensMaterialer	BBRUpdateStruct <CodeValue as string>	Codelist: Kilde til oplysninger
Byg038SamletBygningsareal	BBRUpdateStruct <Nullable long>	
Byg039BygningensSamledeBoligAreal	BBRUpdateStruct <Nullable long>	
Byg040BygningensSamledeErhvervsAreal	BBRUpdateStruct <Nullable long>	

Byg041BebyggetAreal	BBRUpdateStruct <Nullable long>	
Byg042ArealIndbyggetGarage	BBRUpdateStruct <Nullable long>	
Byg043ArealIndbyggetCarport	BBRUpdateStruct <Nullable long>	
Byg044ArealIndbyggetUdhus	BBRUpdateStruct <Nullable long>	
Byg045ArealIndbyggetUdestueEllerLign	BBRUpdateStruct <Nullable long>	
Byg046SamletArealAfLukkedeOverdækningerPåBygningen	BBRUpdateStruct <Nullable long>	
Byg047ArealAfAffaldsrumITerrænniveau	BBRUpdateStruct <Nullable long>	
Byg048AndetAreal	BBRUpdateStruct <Nullable long>	
Byg049ArealAfOverdækketAreal	BBRUpdateStruct <Nullable long>	
Byg051Adgangsareal	BBRUpdateStruct <Nullable long>	
Byg053BygningsarealerKilde	BBRUpdateStruct <CodeValue as string>	Codelist: Kilde til oplysninger
Byg054AntalEtager	BBRUpdateStruct <Nullable long>	
Byg055AfvigendeEtager	BBRUpdateStruct <CodeValue as string>	Codelist: Afvigende etager
Byg056Varmeinstallation	BBRUpdateStruct <CodeValue as string>	Codelist: Varmeinstallation
Byg057Opvarmningsmiddel	BBRUpdateStruct <CodeValue as string>	Codelist: Opvarmningsmiddel
Byg058SupplerendeVarme	BBRUpdateStruct <CodeValue as string>	Codelist: Supplerende varme

Byg063ArealAfIndbyggetGarageIKælder	BBRUpdateStruct <Nullable string>	
Byg069Sikringsrumpladser	BBRUpdateStruct <Nullable long>	
Byg070Fredning	BBRUpdateStruct <CodeValue as string>	Codelist: Fredning
Byg071BevaringsværdighedReference	BBRUpdateStruct <String>	
Byg111StormrådetsOversvømmelsesSelvrisiko	BBRUpdateStruct <CodeValue as string>	Codelist: Oversvømmelsesselvrisiko
Byg112DatoForRegistreringFraStormrådet	BBRUpdateStruct <Nullable DateTime>	
Byg113Byggeskadeforsikringssselskab	BBRUpdateStruct <CodeValue as string>	Codelist: Byggeskadeforsikringssselskab
Byg114DatoForByggeskadeforsikring	BBRUpdateStruct <Nullable DateTime>	
Byg119Udledningstilladelse	BBRUpdateStruct <CodeValue as string>	Codelist: Udledningstilladelse
Byg121OmfattetAfByggeskadeforsikring	BBRUpdateStruct <CodeValue as string>	Codelist: Omfattet af byggeskadeforsikring
Byg122Gyldighedsdato	BBRUpdateStruct <Nullable DateTime>	
Byg123MedlemskabAfSpildevandsforsyning	BBRUpdateStruct <CodeValue as string>	Codelist: Medlemskab af spildevandsforsyning
Byg124PåbudVedrSpildevandsafledning	BBRUpdateStruct <String>	
Byg125FristVedrSpildevandsafledning	BBRUpdateStruct <Nullable DateTime>	

Byg126TilladelseTilUdtræden	BBRUpdateStruct <CodeValue as string>	Codelist: Tilladelse til udtræden
Byg127DatoForTilladelseTilUdtræden	BBRUpdateStruct <Nullable DateTime>	
Byg128TilladelseTilAlternativBortskaffelseEllerAfløsning	BBRUpdateStruct <CodeValue as string>	Codelist: Tilladelse til alternativ bortskaffelse
Byg129DatoForTilladelseTilAlternativBortskaffelseEllerAfløsning	BBRUpdateStruct <Nullable DateTime>	
Byg130ArealAfUdvendigEfterisolering	BBRUpdateStruct <Nullable long>	
Byg131DispensationFritagelseIftKollektivVarmeforsyning	BBRUpdateStruct <CodeValue as string>	Codelist: Disp. ift. kollektiv varmforsyning
Byg132DatoForDispensationFritagelseIftKollektivVarmeforsyning	BBRUpdateStruct <Nullable DateTime>	
Byg136PlaceringPåSøterritorie	BBRUpdateStruct <CodeValue as string>	Codelist: Bygværk på søterritorie
Byg137BanedanmarkBygværksnummer	BBRUpdateStruct <String>	
Byg403ØvrigeBemærkningerFraStormrådet	BBRUpdateStruct <String>	
Byg133KildeTilKoordinatsæt	BBRUpdateStruct <CodeValue as string>	Codelist: Kilde til koordinatsæt
Byg134KvalitetAfKoordinatsæt	BBRUpdateStruct <CodeValue as string>	Codelist: Kvalitet af koordinatsæt
Byg141Dækningsafgift	BBRUpdateStruct <CodeValue as string>	Codelist values: Bygningens dækningsafgift
Byg404Koordinat	BBRUpdateStruct <string>	Well Known Text representation of coordinates (geometry)

Byg406Koordinatsystem	BBRUpdateStruct <CodeValue as string>	Codelist: Koordinatsystem
Notatlinje	Array of NotatlinjeUpdateD ata	List of notes associated with the object

5.1.3.3 BygningDelete

BygningDelete allows deletion of an existing Bygning.

The following table describes the input parameters allowed. For output structure see Section.

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the Bygning to delete
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
ManuelAarsagskodedetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodedetekst is manually defined by the user.

5.1.4 Tekniskanlæg

5.1.4.1 TekniskanlaegCreate

Tekniskanlaeg allows creation of a new Teknisk Anlæg in BBR.

The following table describes the input parameters allowed.

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.3.1 for details.

Kommunekode	String	Kommunekode (4 digit), required.
Data	TekniskanlaegCreateData	Teknisk Anlæg data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not a BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
TransactionId	Nullable UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
ManuelAarsagskodedetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodedetekst is manually defined by the user.

The following table describes the TekniskanlaegCreate structure.

Field	Type	Description
Husnummer_id	UUID	Identifier for address of object
Jordstykke_id	Nullable UUID	Identifier for Matrikel object is placed on. Only use this if the Tekniskanlæg is placed on Jordstykke. Note: If this field is set, the identifier for Bygning_id should not be set.
Bygning_id	Nullable UUID	Identifier for Bygning object is placed in. Only use this if the Tekniskanlæg is placed in Bygning. Note: If this field is set, the identifier for Jordstykke_id should not be set.
Tek007Anlægsnummer	Nullable long	In Create calls BBR will automatically set next available number if this is left as NULL
Tek020Klassifikation	CodeValue as string	Codelist: Klassifikation
Tek021FabrikatType	string	
Tek022EksternDatabase	string	
Tek023EksternNøgle	String	

Tek024Etableringsår	Nullable long	
Tek025TilOmbygningsår	Nullable long	
Tek026StørrelsesklasseOlietank	CodeValue as string	Codelist: Størrelsesklasse
Tek027Placering	CodeValue as string	Codelist: Placering
Tek028SløjfningOlietank	CodeValue as string	Codelist: Sløjfning
Tek030Fabrikationsnummer	string	
Tek031Typegodkendelsesnummer	string	
Tek032Størrelse	Nullable long	
Tek033Type	string	
Tek034IndholdOlietank	CodeValue as string	Codelist: Indhold
Tek035SløjfningsfristOlietank	Nullable DateTime	
Tek036Rumfang	Nullable long	
Tek037Areal	Nullable long	
Tek038Højde	Nullable long	
Tek039Effekt	Nullable long	
Tek040Fredning	CodeValue as string	Codelist: Fredning
Tek042Revisionsdato	Nullable DateTime	
Tek067Fabrikationsår	Nullable long	
Tek068Materiale	CodeValue as string	Codelist: Materiale
Tek069SupplerendeIndvendigKorrosionsbeskyttelse	CodeValue as string	Codelist: Suppl. indvendig korrosionsbeskyttelse
Tek070DatoForSenestUdførteSupplerendeIndvendigKorrosionsbeskyttelse	Nullable DateTime	
Tek071TypegodkendelseCeMærkning	string	
Tek072Sløjfningsår	Nullable long	
Tek073Navhøjde	Nullable double	
Tek074Vindmøllennummer	Nullable long	
Tek075Rotordiameter	Nullable double	
Tek101Gyldighedsdato	Nullable DateTime	

Tek102FabrikatVindmølle	string	
Tek103FabrikatOliefyr	string	
Tek104FabrikatSolcelleanlægSolvarme	string	
Tek105OverdækningTank	string	
Tek106InspektionsdatoTank	Nullable DateTime	
Tek107PlaceringPåSøterritorie	CodeValue as string	Codelist: Bygværk på søterritorie
Tek076KildeTilKoordinatsæt	CodeValue as string	Codelist: Kilde til koordinatsæt
Tek077KvalitetAfKoordinatsæt	CodeValue as string	Codelist: Kvalitet af koordinatsæt
Tek109Koordinat	String (WKT)	Well Known Text representation of coordinates (geometry)
Tek045Koordinatsystem	CodeValue as string	Codelist: Koordinatsystem
Tek110Driftstatus	CodeValue as String	
Tek111DatoForSenesteInspektion	Nullable DateTime	
Tek112InspicerendeVirksomhed	string	
Notatlinje	Array of NotatlinjeCreateData	List of notes associated with the object

5.1.4.2 TekniskanlægUpdate

Tekniskanlæg allows an update of an existing Teknisk Anlæg.

The following table describes the input parameters allowed. For output structure see [Section](#).

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the Teknisk Anlæg
Data	TekniskanlægUpdateData	Teknisk Anlæg data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see "BBR Services Validation" chapter for more details.

SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
ManuelAarsagskodedetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodedetekst is manually defined by the user.

The following table describes the TekniskanlægUpdateData structure. No fields are required, and if not provided the field will not be updated.

Field	Type	Description
Husnummer_id	BBRUpdateStruct <Nullable uuid>	Identifier for address of object
Enhed_id	BBRUpdateStruct <Nullable uuid>	Identifier for Enhed object is placed under. Only use this if the Tekniskanlæg is placed under Enhed. Note: When this field is set, the identifiers for Grund_id, Jordstykke_id, and Bygning_id should be null.
Grund_id	BBRUpdateStruct <Nullable uuid>	Identifier for Grund object is placed under. Note: When this field is set, the identifier for Jordstykke_id should also be set. Furthermore, the identifiers for Bygning_id and Enhed_id should be null.
Bygning_id	BBRUpdateStruct <Nullable uuid>	Identifier for Bygning object is placed under. Only use this if the Tekniskanlæg is placed under Bygning. Note: When this field is set, the identifiers for Grund_id, Jordstykke_id, and Enhed_id should be null.
Jordstykke_id	BBRUpdateStruct <Nullable uuid>	Identifier for Jordstykke object is placed under.
Tek007Anlægsnummer	BBRUpdateStruct <Nullable long>	In Create calls BBR will automatically set next available number if this is left as NULL

Tek020Klassifikation	BBRUpdateStruct <CodeValue as string>	Codelist: Klassifikation
Tek021FabrikatType	BBRUpdateStruct <string>	
Tek022EksternDatabase	BBRUpdateStruct <string>	
Tek023EksternNøgle	BBRUpdateStruct <String>	
Tek024Etableringsår	BBRUpdateStruct <Nullable long>	
Tek025TilOmbygningsår	BBRUpdateStruct <Nullable long>	
Tek026StørrelsesklasseOlietank	BBRUpdateStruct <CodeValue as string>	Codelist: Størrelsesklasse
Tek027Placering	BBRUpdateStruct <CodeValue as string>	Codelist: Placering
Tek028SløjfningOlietank	BBRUpdateStruct <CodeValue as string>	Codelist: Sløjfning
Tek030Fabrikationsnummer	BBRUpdateStruct <string>	
Tek031Typegodkendelsesnummer	BBRUpdateStruct <string>	
Tek032Størrelse	BBRUpdateStruct <Nullable long>	
Tek033Type	BBRUpdateStruct <string>	
Tek034IndholdOlietank	BBRUpdateStruct <CodeValue as string>	Codelist: Indhold
Tek035SløjfningsfristOlietank	BBRUpdateStruct <Nullable DateTime>	
Tek036Rumfang	BBRUpdateStruct <Nullable long>	

Tek037Areal	BBRUpdateStruct <Nullable long>	
Tek038Højde	BBRUpdateStruct <Nullable long>	
Tek039Effekt	BBRUpdateStruct <Nullable long>	
Tek040Fredning	BBRUpdateStruct <CodeValue as string>	Codelist: Fredning
Tek042Revisionsdato	BBRUpdateStruct <Nullable DateTime>	
Tek067Fabrikationsår	BBRUpdateStruct <Nullable long>	
Tek068Materiale	BBRUpdateStruct <CodeValue as string>	Codelist: Materiale
Tek069SupplerendeIndvendigKorrosionsbeskyttelse	BBRUpdateStruct <CodeValue as string>	Codelist: Suppl. indvendig korrosionsbeskyttelse
Tek070DatoForSenestUdførteSupplerendeIndvendigKorrosionsbeskyttelse	BBRUpdateStruct <Nullable DateTime>	
Tek071TypegodkendelseCeMærkning	BBRUpdateStruct <string>	
Tek072Sløjfningsår	BBRUpdateStruct <Nullable long>	
Tek073Navhøjde	BBRUpdateStruct <Nullable double>	
Tek074Vindmøllennummer	BBRUpdateStruct <Nullable long>	
Tek075Rotordiameter	BBRUpdateStruct <Nullable double>	
Tek101Gyldighedsdato	BBRUpdateStruct <Nullable DateTime>	
Tek102FabrikatVindmølle	BBRUpdateStruct <string>	

Tek103FabrikatOliefy	BBRUpdateStruct <string>	
Tek104FabrikatSolcelleanlægSolvarme	BBRUpdateStruct <string>	
Tek105OverdækningTank	BBRUpdateStruct <string>	
Tek106InspektionsdatoTank	BBRUpdateStruct <Nullable DateTime>	
Tek107PlaceringPåSøterritorie	BBRUpdateStruct <CodeValue as string>	Codelist: Bygværk på søterritorie
Tek076KildeTilKoordinatsæt	BBRUpdateStruct <CodeValue as string>	Codelist: Kilde til koordinatsæt
Tek077KvalitetAfKoordinatsæt	BBRUpdateStruct <CodeValue as string>	Codelist: Kvalitet af koordinatsæt
Tek109Koordinat	BBRUpdateStruct <string>	Well Known Text representation of coordinates (geometry)
Tek110Driftstatus	CodeValue as String	
Tek045Koordinatsystem	BBRUpdateStruct <CodeValue as string>	Codelist: Koordinatsystem
Tek111DatoForSenestInspektion	Nullable DateTime	
Tek112InspicerendeVirksomhed	string	
Notatlinje	Array of NotatlinjeUpdated ata	List of notes associated with the object

5.1.4.3 TekniskanlaegDelete

TekniskanlaegDelete allows deletion of an existing Teknisk Anlæg.

The following table describes the input parameters allowed. For output structure see [Section](#).

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.

	ClientCertScopeDto (client certificates)	
Id	UUID	Id of the Teknisk Anlæg to delete
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
ManuelAarsagskodedetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodedetekst is manually defined by the user.

5.1.5 Opgang

5.1.5.1 OpgangCreate

BygningCreate allows creation of a new Bygning in BBR.

The following table describes the input parameters allowed.

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Kommunekode	String	Kommunekode (4 digit), required.
Data	OpgangCreateData	Opgang data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
ManuelAarsagskodedetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent

		will have Årsagskode 98, indicating that the Årsagskodetekst is manually defined by the user.
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The following table describes the OpgangCreate structure.

Field	Type	Description
AdgangFraHusnummer_id	UUID	Identifier for address of object
Bygning_id	UUID	Identifier of Bygning object is placed in
Opg020Elevator	CodeValue as string	Codelist: Elevator
Notatlinje	Array of NotatlinjeCreateData	List of notes associated with the object

5.1.5.2 OpgangUpdate

OpgangUpdate allows an update of an existing Opgang-

The following table describes the input parameters allowed. For output structure see [Section](#).

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the Opgang
Data	OpgangUpdateData	Opgang data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not a BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
ManuelAarsagskodetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodetekst is manually defined by the user.

The following table describes the OpgangUpdateData structure. No fields are required, and if not provided the field will not be updated.

Field	Type	Description
AdgangFraHusnummer_id	BBRUpdateStruct <Nullable uuid>	Identifier for address of object
Opg020Elevator	BBRUpdateStruct <CodeValue as string>	Codelist: Elevator
Notatlinje	Array of NotatlinjeUpdated ata	List of notes associated with the object

5.1.5.3 OpgangDelete

OpgangDelete allows deletion of an existing Opgang.

The following table describes the input parameters allowed. For output structure see [Section](#).

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the Opgang to delete
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
ManuelAarsags-kodetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodetekst is manually defined by the user.

5.1.6 Etage

5.1.6.1 EtageCreate

EtageCreate allows creation of a new Etage in BBR.

The following table describes the input parameters allowed.

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Kommunekode	String	Kommunekode (4 digit), required.
Data	EtageCreateData	Etage data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
ManuelAarsagskodedetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodedetekst is manually defined by the user.

The following table describes the EtageCreate structure.

Field	Type	Description
Bygning_id	UUID	Identifier of Bygning object is placed in
Eta006BygningensEtagebetegnelse	string	
Eta020SamletArealAfEtage	Nullable long	
Eta021ArealAfUdnyttetDelAfTagetage	Nullable long	
Eta022Kælderareal	Nullable long	
Eta023ArealAfLovligBeboelseKælder	Nullable long	

Eta025Etagetype	CodeValue as string	Codelist: Etagetype
Eta026Erhvervskælder	Nullable long	
Notatlinje	Array of NotatlinjeCreateData	List of notes associated with the object

5.1.6.2 EtagUpdate

EtagUpdate allows an update of an existing Etag.

The following table describes the input parameters allowed. For output structure see [Section](#).

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the Etag
Data	EtagUpdateData	Etag data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
ManuelAarsagskodedetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be sent, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodedetekst is manually defined by the user.

The following table describes the EtagUpdateData structure. No fields are required, and if not provided the field will not be updated.

Field	Type	Description
Eta006BygningensEtagetegnelse	BBRUpdateStruct <string>	

Eta020SamletArealAfEtag	BBRUpdateStruct <Nullable long>	
Eta021ArealAfUdnyttetDelAfTage	BBRUpdateStruct <Nullable long>	
Eta022Kælderareal	BBRUpdateStruct <Nullable long>	
Eta023ArealAfLovligBeboelseKælder	BBRUpdateStruct <Nullable long>	
Eta025Etagetype	BBRUpdateStruct <CodeValue as string>	Codelist: Etagetype
Eta026Erhvervskælder	BBRUpdateStruct <Nullable long>	
Notatlinje	Array of NotatlinjeCreated ata	List of notes associated with the object

5.1.6.3 EtagDelete

EtagDelete allows deletion of an existing Etag.

The following table describes the input parameters allowed. For output structure see [Section](#).

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the Etag to delete
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
ManuelAarsags-kodetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodetekst is manually defined by the user.

5.1.7 Enhed

5.1.7.1 EnhedCreate

EnhedCreate allows creation of a new Enhed in BBR.

The following table describes the input parameters allowed.

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Kommunekode	String	Kommunekode (4 digit), required.
Data	EnhedCreateData	Enhed data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
ManuelAarsags-kodetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodetekst is manually defined by the user.

The following table describes the EnhedCreate structure.

Field	Type	Description
Opgang_id	UUID	Identifier of Opgang object is placed in
Etage_id	UUID	Identifier of Etage object is placed on
AdresselIdentifierer_id	Nullable UUID	
Enh020EnhedensAnvendelse	CodeValue as string	Codelist: Enhedsanvendelse

Enh023Boligtype	CodeValue as string	Codelist: Boligtype
Enh024KondemneretBoligenhed	CodeValue as string	Codelist: Kondemneret boligenhed
Enh025OprettelsesdatoForEnhedensIdentifikation	Nullable DateTime	
Enh026EnhedensSamledeAreal	Nullable long	
Enh027ArealTilBeboelse	Nullable long	
Enh028ArealTilErhverv	Nullable long	
Enh030KildeTilEnhedensArealer	CodeValue as string	Codelist: Kilde til oplysninger
Enh031AntalVærelser	Nullable long	
Enh032Toiletforhold	CodeValue as string	Codelist: Toiletforhold
Enh033Badeforhold	CodeValue as string	Codelist: Badeforhold
Enh034Køkkenforhold	CodeValue as string	Codelist: Køkkenforhold
Enh035Energiforsyning	CodeValue as string	Codelist: Energiforsyning
Enh039AndetAreal	Nullable long	
Enh041LovligAnvendelse	CodeValue as string	Codelist: Lovlig anvendelse
Enh042DatoForTidsbegrænsetDispensation	Nullable DateTime	
Enh044DatoForDelvisbrugtagningstilladelser	Nullable DateTime	
Enh045Udlejningsforhold	CodeValue as string	Codelist: Udlejningsforhold
Enh046OffentligStøtte	CodeValue as string	Codelist: Offentlig støtte
Enh047IndflytningDato	Nullable DateTime	
Enh048GodkendtTomBolig	CodeValue as string	Codelist: Godkendt tom bolig
Enh051Varmeinstallation	CodeValue as string	Codelist: Varmeinstallation
Enh052Opvarmningsmiddel	CodeValue as string	Codelist: Opvarmningsmiddel
Enh053SupplerendeVarme	CodeValue as string	Codelist: Supplerende varme
Enh059EnhedensAndelI FællesBoligareal	Nullable long	
Enh060EnhedensAndelI FællesAdgangsareal	Nullable long	
Enh062ArealAfLukketOverdækningUdestue	Nullable long	
Enh063AntalVærelserTilErhverv	Nullable long	

Enh065AntalVandskylledeToiletter	Nullable long	
Enh066AntalBadeværelser	Nullable long	
Enh067Støjisolering	Nullable long	
Enh068FlexboligTilladelsesart	CodeValue as string	
Enh069FlexboligOphørsdato	Nullable DateTime	
Enh070TagterasseAreal	Nullable long	
Enh101Gyldighedsdato	Nullable DateTime	
Enh141Dækningsafgift	CodeValue as String	Codelist: Enhedens dækningsafgift
Notatlinje	Array of NotatlinjeCreateData	List of notes associated with the object

5.1.7.2 EnhedUpdate

EnhedUpdate allows an update of an existing Enhed.

The following table describes the input parameters allowed. For output structure see [Section](#).

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the Enhed
Data	EnhedUpdateData	Enhed data (as described in following table)
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
ManuelAarsagskodedetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating

		that the Årsagskodedetekst is manually defined by the user.
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The following table describes the EnhedUpdateData structure. No fields are required, and if not provided the field will not be updated.

Field	Type	Description
Adresselidificerer_id	Nullable UUID	
Enh020EnhedensAnvendelse	BBRUpdateStruct <CodeValue as string>	Codelist: Enhedsanvendelse
Enh023Boligtype	BBRUpdateStruct <CodeValue as string>	Codelist: Boligtype
Enh024KondemneretBoligenhed	BBRUpdateStruct <CodeValue as string>	Codelist: Kondemneret boligenhed
Enh025OprettelsesdatoForEnhedsidentifikation	BBRUpdateStruct <Nullable DateTime>	
Enh026EnhedensSamledeAreal	BBRUpdateStruct <Nullable long>	
Enh027ArealTilBeboelse	BBRUpdateStruct <Nullable long>	
Enh028ArealTilErhverv	BBRUpdateStruct <Nullable long>	
Enh030KildeTilEnhedensArealer	BBRUpdateStruct <CodeValue as string>	Codelist: Kilde til oplysninger
Enh031AntalVærelser	BBRUpdateStruct <Nullable long>	
Enh032Toiletforhold	BBRUpdateStruct <CodeValue as string>	Codelist: Toiletforhold
Enh033Badeforhold	BBRUpdateStruct <CodeValue as string>	Codelist: Badeforhold

Enh034Køkkenforhold	BBRUpdateStruct <CodeValue as string>	Codelist: Køkkenforhold
Enh035Energiforsyning	BBRUpdateStruct <CodeValue as string>	Codelist: Energiforsyning
Enh039AndetAreal	BBRUpdateStruct <Nullable long>	
Enh041LovligAnvendelse	BBRUpdateStruct <CodeValue as string>	Codelist: Lovlig anvendelse
Enh042DatoForTidsbegrænsetDispensation	BBRUpdateStruct <Nullable DateTime>	
Enh044DatoForDelvisbrugtagningiTilladelse	BBRUpdateStruct <Nullable DateTime>	
Enh045Udlejningsforhold	BBRUpdateStruct <CodeValue as string>	Codelist: Udlejningsforhold
Enh046OffentligStøtte	BBRUpdateStruct <CodeValue as string>	Codelist: Offentlig støtte
Enh047IndflytningDato	BBRUpdateStruct <Nullable DateTime>	
Enh048GodkendtTomBolig	BBRUpdateStruct <CodeValue as string>	Codelist: Godkendt tom bolig
Enh051Varmeinstallation	BBRUpdateStruct <CodeValue as string>	Codelist: Varmeinstallation
Enh052Opvarmningsmiddel	BBRUpdateStruct <CodeValue as string>	Codelist: Opvarmningsmiddel
Enh053SupplerendeVarme	BBRUpdateStruct <CodeValue as string>	Codelist: Supplerende varme
Enh059EnhedensAndellFællesBoligareal	BBRUpdateStruct <Nullable long>	

Enh060EnhedensAndelFællesAdgangsareal	BBRUpdateStruct <Nullable long>	
Enh062ArealAfLukketOverdækningUdestue	BBRUpdateStruct <Nullable long>	
Enh063AntalVærelserTilErhverv	BBRUpdateStruct <Nullable long>	
Enh065AntalVandskylledeToiletter	BBRUpdateStruct <Nullable long>	
Enh066AntalBadeværelser	BBRUpdateStruct <Nullable long>	
Enh067Støjisolering	BBRUpdateStruct <Nullable long>	
Enh068FlexboligTilladelsesart	CodeValue as string	
Enh069FlexboligOphørsdato	Nullable DateTime	
Enh070TagterasseAreal	BBRUpdateStruct <Nullable long>	
Enh101Gyldighedsdato	BBRUpdateStruct <Nullable DateTime>	
Enh141Dækningsafgift	BBRUpdateStruct <CodeValue as String>	Codelist: Enhedens dækningsafgift
Notatlinje	Array of NotatlinjeUpdateD ata	List of notes associated with the object

5.1.7.3 EnhedDelete

EnhedDelete allows deletion of an existing Enhed.

The following table describes the input parameters allowed. For output structure see [Section](#).

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	Id of the Enhed to delete

TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
IgnoreWarnings	Boolean	Flag indicating if validation errors should be ignored. Please see “BBR Services Validation” chapter for more details.
SendBBRMessage	Boolean	Indicates whether or not BBR should send a BBR-message for this change with a fitting Årsagskode for the change made.
ManuelAarsagskodedetekst	String	Optional parameter. When a non-empty text is passed on by the user, a BBR-message will be send, regardless of whether or not SendBBRMessage is set to true or false. The BBR-message sent will have Årsagskode 98, indicating that the Årsagskodedetekst is manually defined by the user.

5.1.8 Geokodning

BBR maintains a point location (geometry) for each Building and Technical installation. The purpose of this service is to maintain this.

All service operations will return following output codes:

Code	Name	Description
0	EntityNotFound	Teknisk Anlaeg or Building with given Id was not found
10	EntityUpdated	Teknisk Anlaeg or Building was successfully updated
20	UpdateFailure	An error occurred during update (for example – value not present in the Codelist was passed in the parameter)
21	ParameterEmpty	One (or more) of the parameters were empty
22	GeometryInvalid	Geometry (Well Known Text) string was not parsed as valid geometry
30	ServiceError	Unexpected Error in the service. Try again later.

5.1.8.1 UpdateBygningGeometry

The operation is used to update the geometry of building (specified by Id).

5.1.8.1.1 Parameters

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	The Id of a Building

Byg133KildeTilKoordinatsæt	CodeValue as String	Codelist: Kilde til koordinatsæt
Byg134KvalitetAfKoordinatsæt	CodeValue as String	Codelist: Kvalitet af koordinatsæt
Byg404Koordinat	String (WKT)	Well Known Text representation of coordinates (geometry)
Byg406Koordinatsystem	CodeValue as String	Codelist: Koordinatsystem
Byg135SupplerendeOplysningOmKoordinatsæt	string	
TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.

All parameters are mandatory.

5.1.8.1.2 Output

The service returns an output code (common for all Geokodning service operations).

5.1.8.2 UpdateTekniskAnlaegGeometry

The operation is used to update the geometry of technical installation (specified by Id).

5.1.8.2.1 Parameters

Name	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.2.1 or 2.3.1 for details.
Id	UUID	The Id of a Technical Installation
Tek076KildeTilKoordinatsæt	CodeValue as String	Codelist: Kilde til koordinatsæt
Tek077KvalitetAfKoordinatsæt	CodeValue as String	Codelist: Kvalitet af koordinatsæt
Tek109Koordinat	String (WKT)	Well Known Text representation of coordinates (geometry)
Tek045Koordinatsystem	CodeValue as String	Codelist: Koordinatsystem
Tek078SupplerendeOplysningOmKoordinatsæt	string	

TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
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All parameters are mandatory.

5.1.8.2.2 Output

The service returns an output code (common for all Geokodning service operations).

5.2 RetBBR and SKAT Callcenter

This section describes the read services that relate to structured enquires (Indberetninger) in BBR. They are used by RetBBR and SKAT callcenter systems, and will generally not be made available to other systems.

Provider	Area	Value
BBR 2.3	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	SOAP
	Security	STS (SAML Token) – Global Scope or Client certificates – Global Scope
	Address	Preprod via STS: https://pp2-sg.bbr.dk/External/IndberetningServiceV5 Preprod via client certificates: https://pp2-sg.bbr.dk/External/IndberetningCertificateServiceV5

5.2.1 GetDirekteIndberetningSetting

The service provides access to the settings a given Kommune has in regards to Direkte indberetning. The outside system sends a KommuneKode as a string and the service returns a string representing the choice of Direkte indberetning for that particular Kommune.

5.2.1.1 Input

Field	Type	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeDto (client certificates)	Security/identity scope selected by the client. See chapter 2.3.1 for details.
KommuneKode	string	Identifies the Kommune

5.2.1.2 Output

Field	Type	Description
result	string	Represents a codevalue

The codevalue can have one of three values:

Key	Title
0	Ingen
1	Få
2	Mange

5.2.2 GetIndberetningerForCallCenter

This service returns a list of Indberetninger matching a specified set of search criteria.

A total of 5 different inputs are possible, of these, two must be present at all times. The required inputs are both DateTime, that in conjunction specify a timeframe such that only Indberetninger received in said time frame are returned. The other three potential search criteria are Kommunekode, Rettelsesstatus and Rolle, none of which are required.

- Kommunekode filters Indberetninger based on Kommune.
- Rettelsesstatus filters Indberetninger based on how far their sub-element, Rettelse, is through the system, in such a way that a Indberetninger is included if it has one or more Rettelse with specified status.
- Roller filters based on the Rolle of the person who made the Indberetninge.

There is a 1000 element cap on the amount of Indberetninger that can be returned after all search criteria has been applied, which means that if 1000 elements are received, there is a high chance that more than 1000 elements matched the search criteria. In this case, the search criteria should be made more specific in order to reduce the amount of matching Indberetninger below the 1000 element cap.

The found Indberetninger are encapsulated in an object that contains an error list and the list of Indberetninger . If errors are found, they will be described in the error list and there will be no elements in the result list. If no errors are found, all Indberetninger matching the search criteria can be found in the Indberetninger list.

5.2.2.1 Input

Field	Type	Mandatory ?	Description
selectedScope	EffectiveScopeDto (STS) or ClientCertScopeD to (client certificates)	Yes	Security/identity scope selected by the client. See chapter 2.3.1 for details.
Kommunekode	string	No	The kommunekode of the Indberetninger
DatoFra	DateTime	Yes	UTC DateTime for starting point of search timeframe*

DatoTil	DateTime	Yes	UTC DateTime for end point of search timeframe*
RetStatus	Enum	No	Enum** describing a potential status for a Rettelse
Rolle	string	No	The Rolle of the person who created the Indberetninger
Ejendomsnummer	string[]	No	The Ejendomsnummer (kommunalt ejendomsnummer) of the Indberetninger
BFE	string[]	No	The BFE number of the Indberetninger

*The search timeframe filters on the IndberetningsTidspunkt of Indberetninger

**The potential values for the Status of a Rettelse is

Key	Title
1	Modtaget
2	UnderBehandling
3	Afvist
4	Udført
5	UdførtManuelt
6	Udførselsfejl
7	DirekteUdført

This BFE input parameter is available from BBR 2.0 and onwards. When BFE is given, it will be used to do search. Otherwise ejendomsnummer will be used.

5.2.2.2 Output

The output is a hierarchy of multiple objects; the base being listed below:

Field	Type	Description
Indberetning	List of CallCenterIndberetning	The results of the search
ErrorMsg	List of string	Errors found during input validation

It is important to note that only one of these can have values. If errors are found during input validation, a description of each will be contained in ErrorMsg.

If ErrorMsg is empty, the Indberetninger found will be in the Indberetninger field.

5.2.2.3 CallCenterIndberetning

Field	Type	Description
KommuneKode	string	Municipality where the Indberetning is from

Ejendomsnr	string	Kommunalt ejendomsnummer for the property affected by the Indberetning
BFE	string	BFE for the property affected by the Indberetning
Status	string	How far along is the processing of the Indberetning, e.g. "Modtaget"
IndberettersNavn	string	Name of the person that made the Indberetning
IndberettersEmail	string	E-mail for Indberetning creator
IndberettersTelefonnr	string	Phone number on Indberetning creator
IndberettersRolle	string	The Role of Indberetning creator, e.g. "Ejer"
IndsendelsesTidspunkt	DateTime	Time the Indberetning was received
Rettelser	List of CallCenterRettelse	A list of Rettelser found in the Indberetning

5.2.2.4 CallCenterRettelse

Field	Type	Description
Status	string	How far is the processing of the Rettelse, e.g. "Under behandling" or "Udført"
TidspunktForBehandling*	DateTime	When was the processing started
TidspunktForUdførselAfvisning*	DateTime	When was the final processing step made (udført or afvist)
TypeAfPrimærtBBRObjekt	string	Type of primary object of Rettelse as enum (Grund = 1, Bygning = 2, Teknisk Anlæg = 3)
PrimærtBBRObjekt	Uuid	Identifier for the Primary object of the Rettelse
Enheder	List of CallCenterEnheder	List of specific information fields from affected entities of type Enhed (can be empty)

*Can have default DateTime value if field is not assigned on Rettelse

5.2.2.5 CallCenterEnheder

Field	Type	Description
Enh004HusnummerId	string	Identifier for Husnummer, used to find address of building
Enh005Etagebetegnelse	string	Etage of the Enhed
Enh006SideDørBetegnelse	string	Side/Dør of the Enhed
Enh020EnhedensAnvendelse	string	CodeValue for the usage of the Enhed
Enh026EnhedensSamledeAreal	string	Total area of the Enhed

Enh027ArealTilBeboelse	string	Area of the Enhed used for residential purposes
Enh028ArealTilErhverv	string	Area of the Enhed used for business purposes
Enh030KildeTilEnhedensArealer	string	CodeValue for the source of area information
Enh039AndetAreal	string	Other areas connected to the Enhed
Enh060EnhedensAndelFaellesA dgangsareal	string	Area of shared access areas
Enh062ArealAfLukketOverdaek ningUdestue	string	Area of closed covered areas

It should be noted that these fields are always found in the return object, even if they don't have a value.

5.3 OIS BBRMeddelelse / Andelsboligudskrift

These services provide generation of BBR messages for the OIS system. These services are designed specifically for OIS, and will generally not be made available to other clients.

Provider	Area	Value
BBR 2.0 (identical to BBR 1.8)	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	SOAP
	Security	Client Certificate
	Address	Preprod: https://pp2-sg.bbr.dk/External/OISService Prod: https://sg.bbr.dk/External/OISService

The service will return following output structure:

Property name	Property type	Description
StatusCode	Integer	Status code for the message (as described below)
StatusDescription	String	Description of the status
Message	String	Base64-encoded PDF file with BBR Message

Available status codes:

Code	Name	Description
0	OK	Operation successful

1	ParameterCombinationInvalid	Invalid combination of parameters
2	BFENummerInvalid	Invalid BFE number
3	KommunennummerInvalid	Invalid Kommunekode
4	EjendomsnummerInvalid	Invalid Ejendomsnummer
90	ErrorOccuredWhileGeneratingBBRMessage	Error occurred while generating BBR Message
91	BBRAdresseNotFound	BBRAdresse was not found
100	EnhedNotFoundForBBRAdresse	No suitable Enhed was found for given BBRAdresse
200	UnkownError	Unknown error occurred

5.3.1 GenerateBBRMessage

GenerateBBRMessage operation is used to generate BBRMeddelelse.

5.3.1.1 Parameters

Name	Type	Description
BFENummer	Nullable Long	BFE Number
Ejendomsnummer	Nullable Long	Ejendomsnummer
Kommunekode	String	Kommunekode (4 digits)

Valid sets of parameters are:

- BFENummer and Kommunekode (Ejendomsnummer is set to null)
- Ejendomsnummer and Kommunekode (BFENummer is set to null)

5.3.1.2 Output

The service returns the output structure.

5.3.2 GenerateBBRMessageForCondominium

GenerateBBRMessage operation is used to generate Andelsboligudskrift.

5.3.2.1 Parameters

Name	Type	Description
BFENummer	Nullable Long	BFE Number
Ejendomsnummer	Nullable Long	Ejendomsnummer
Kommunekode	String	Kommunekode (4 digits)

BBRAresseld	UUID	Id of BBRAresse
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Valid sets of parameters are:

- BBRAresseld, BFENummer and Kommunekode (Ejendomsnummer is set to null)
- BBRAresseld, Ejendomsnummer and Kommunekode (BFENummer is set to null)

5.3.2.2 Output

The service returns the output structure.

5.4 Beskedfordeler

The service provides an endpoint for Beskedfordeler to submit messages to. The service is designed specifically for the Beskedfordeler system, and access will not be granted to other clients.

Provider	Area	Value
BBR 2.0 (identical to BBR 1.8)	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	REST / JSON (GET)
	Security	Client Certificate
	Base URL	Preprod: https://pp2-sg.bbr.dk/External/Beskedfordeler

5.4.1 ModtagBesked

The operation is implemented as described in [Besked-Aflever-Snitflade] document.

5.4.1.1 Parameters

The service receives a ModtagBeskedInput object in XML form containing message structure. For further documentation on the type or the message structure, please refer to [Besked-Aflever-Snitflade].

5.4.1.2 Output

The service returns an output message containing a status code and description. The available status codes – according to [Besked-Aflever-Snitflade] – are:

- 20 (OK)
- 40 (Message cannot be received)
- 42 (Message not valid)
- 51 (Service not implemented)
- 53 (Service not available)
- 55 (Service version not supported).

For further documentation on the operation output type, please refer to [Besked-Aflever-Snitflade].

5.5 FIE

Users of FIE (Fælles Indberetning af Energiforbrug) can specify their energy consumption and BBR can then access this information. It will be taken into consideration that some addresses are secret and cannot give information about energy consumption.

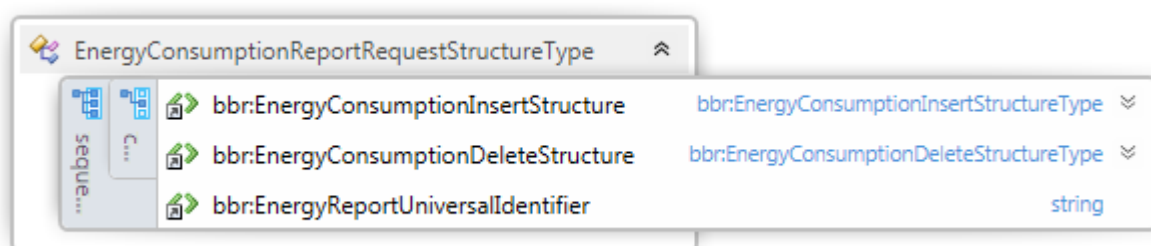
A FTP server will be setup by Netcompany to handle the Energy consumption reports.

Provider	Area	Value
BBR 2.0 (identical to BBR 1.8)	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	SOAP
	Security	Client Certificate
	Address	Preprod: https://pp2-sg.bbr.dk/External/EnergyV2 Prod: https://sg.bbr.dk/External/EnergyV2

5.5.1 EnergyConsumptionReport

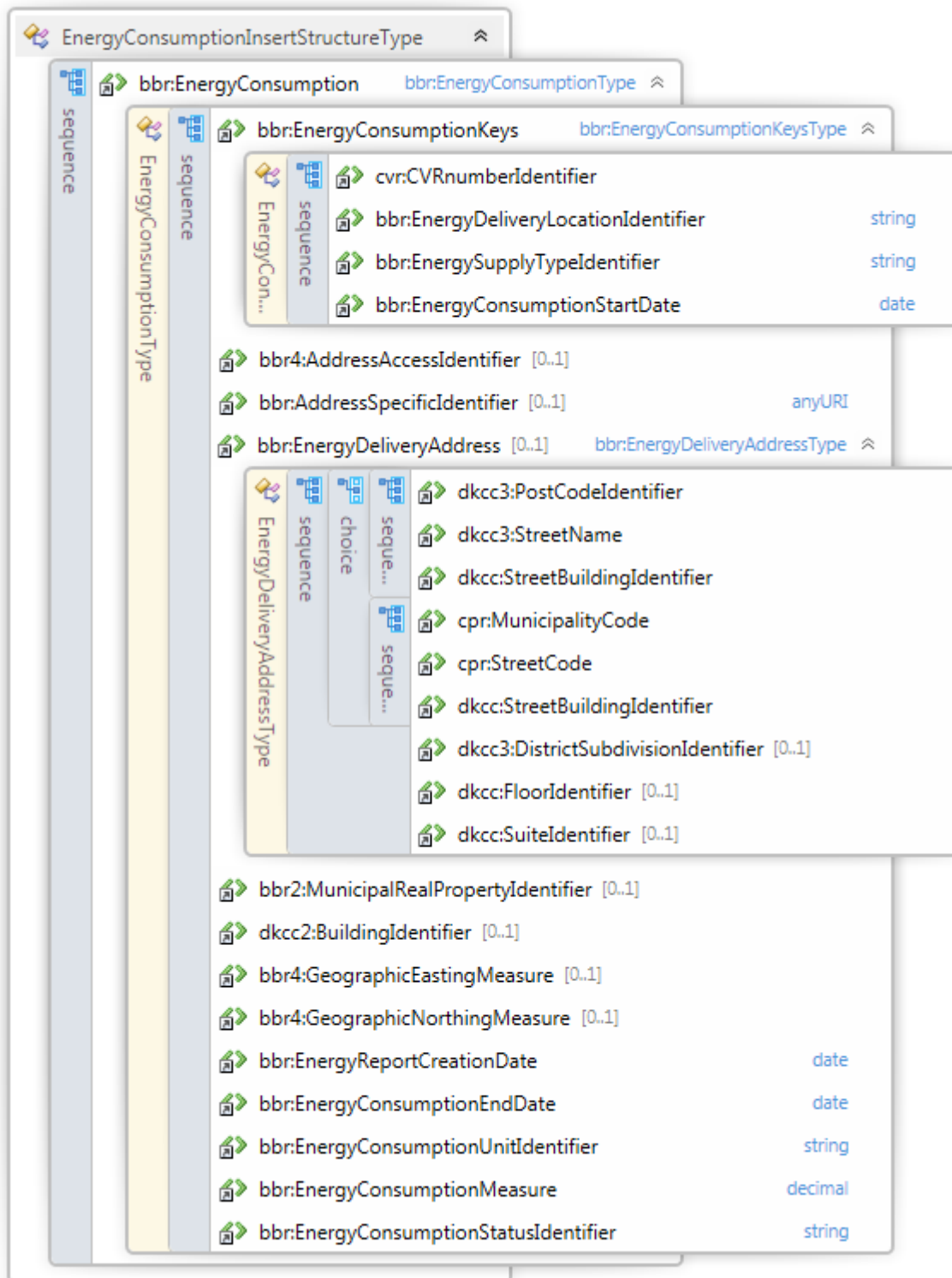
5.5.1.1 Parameters

The input to EnergyConsumptionReport is EnergyConsumptionReportRequestStructureType which has the structure shown below.

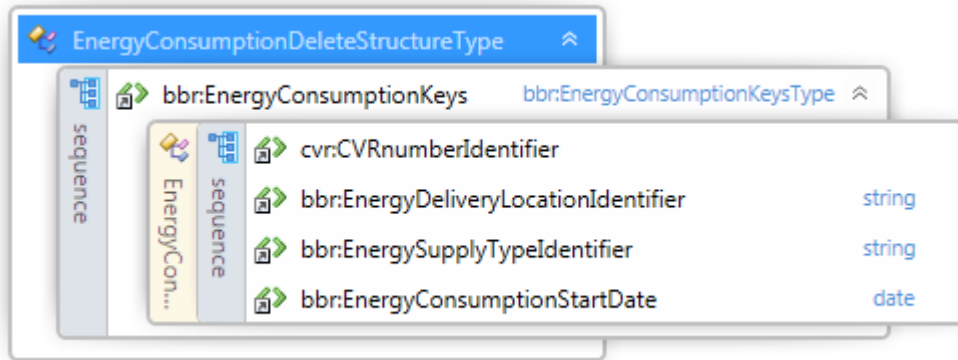


It consists of a UUID, EnergyReportUniversalIdentifier, identifying the request and a list of substructures. The list is technically unbound, but must not consist of more than *MaxGraense* elements. MaxGraense is configured as a system parameter in BBR. The substructure either has the type EnergyConsumptionInsertStructureType or EnergyConsumptionDeletionStructureType. The identifier can be used to check the status of the report afterwards.

EnergyConsumptionInsertStructureType is used to report a consumption of energy by a company at a specific place and date by a specific energy supplier. The structure of EnergyConsumptionInsertStructureType is shown below. Its substructure EnergyConsumptionKeys is used to uniquely identify the consumption of energy. It is used if the report of energy is to be retracted.



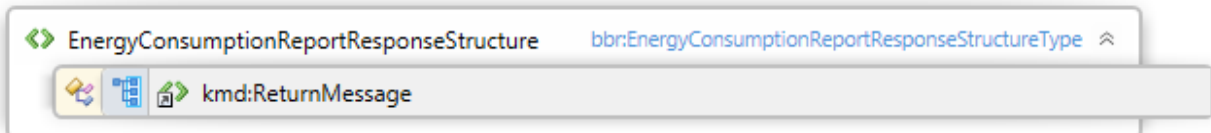
EnergyConsumptionDeleteStructureType is used to retract a previous report of a consumption of energy. Its structure is shown below. It consists solely of an element of type EnergyConsumptionKeys identifying the report to retract.



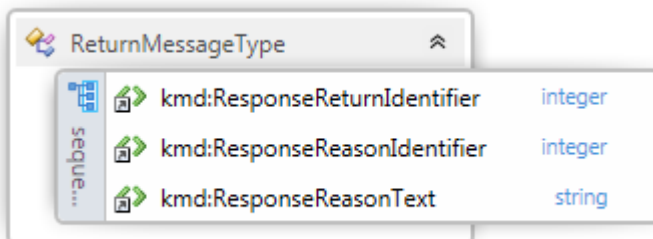
5.5.1.2 Output

If the request contains a scheme validation error, a SOAP Fault is returned describing the error.

The output of EnergyConsumptionReport is EnergyConsumptionReportResponseStructure, which has the structure shown below.



It contains a ReturnMessage, which has the type ReturnMessageType.



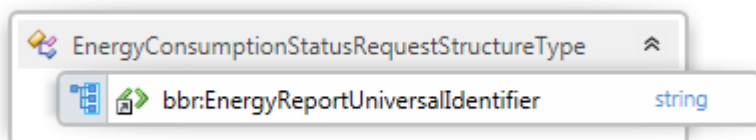
ReturnMessageType is used several places in the solution to give a status of an action or a call. If ResponseReturnIdentifier is not 0, then the action was successful. If it is not equal to 0, then ResponseReasonIdentifier and ResponseReasonText contains information about the error that occurred in the system. For EnergyConsumptionReport the following value pairs of ResponseReasonIdentifier and ResponseReasonText is used.

Value of ResponseReasonIdentifier	Value of ResponseReasonText
6013	Indberetningsklient blev ikke fundet
6020	Grænsen for antal indberetninger er overskredet. Grænsen er: <value>
6024	Der findes flere indberetninger med den samme nøgle
9999	<Fatal unexpected error>

5.5.2 EnergyConsumptionStatus

5.5.2.1 Parameters

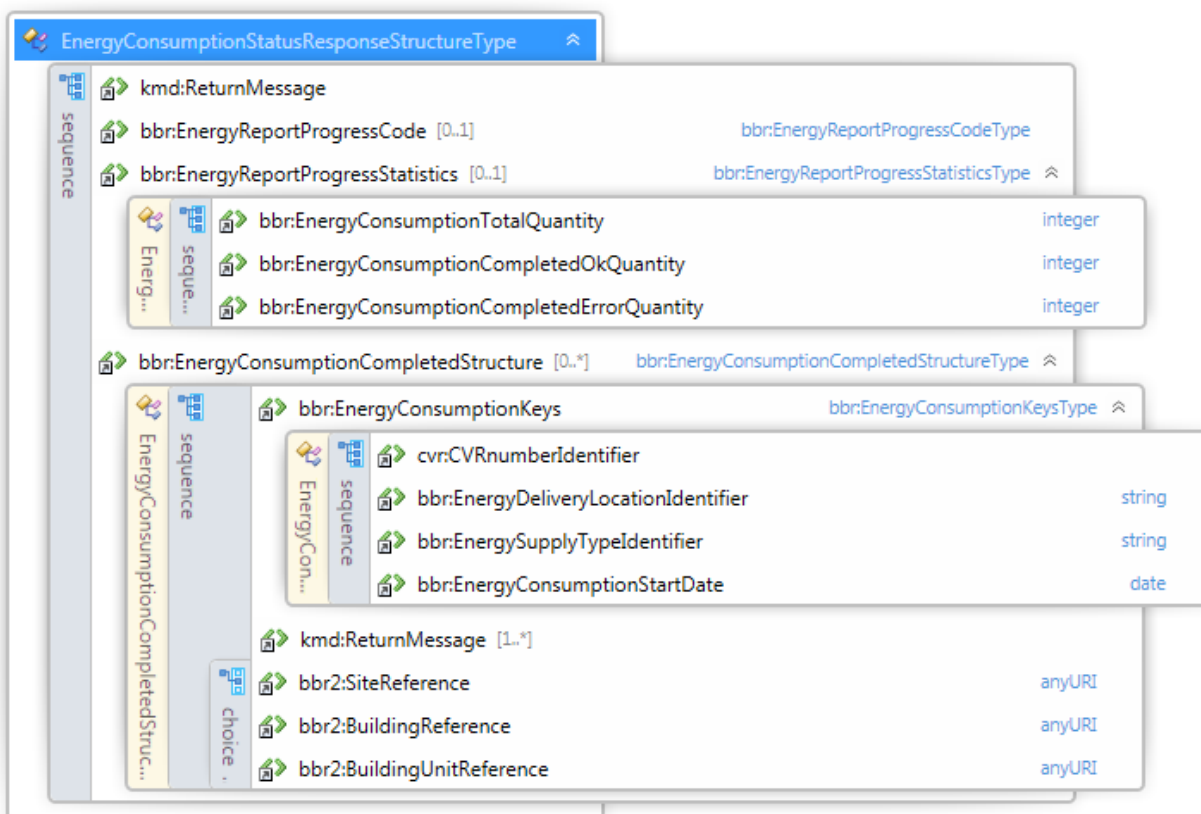
The input to EnergyConsumptionStatus has type EnergyConsumptionStatusRequestStructureType and is given by the following structure. It takes a single UUID, EnergyReportUniversalIdentifier, that uniquely identifies the consumption of energy that was previously reported, for which to get the status.



5.5.2.2 Output

If the request contains a scheme validation error, a SOAP Fault is returned describing the error.

The output of EnergyConsumptionStatus has the type EnergyConsumptionStatusResponseStructureType and is given by the following structure.



The output contains a ReturnMessage, which specifies if the call was successful. If it is unsuccessful, i.e., ResponseReturnIdentifier is not 0, then the following values of ResponseReasonIdentifier and ResponseReasonText will describe the error that occurred.

Value of ResponseReasonIdentifier	Value of ResponseReasonText
6014	Indberetningsrequest blev ikke fundet
9999	<Fatal unexpected error>

If the call was successful, then a sequence of elements describe the status of the report of energy consumption. EnergyReportProgressCode describes the progress of the treatment of the report. It can be Inactive, Active or Completed. EnergyReportProgressStatistics contains information about the specific lines of energy consumption that is to be treated or has been treated, successfully or unsuccessfully.

If EnergyReportProgressCode is Completed then EnergyConsumptionCompletedStructure constitutes a list of elements describing the status of the treatment of each line of energy consumption, identified by its EnergyConsumptionKeys. For each line ReturnMessage contains a sequence of elements describing the status of the treatment.

If the treatment of the energy consumption was successful, then there is a single ReturnMessage with ResponseReturnIdentifier equal to 0. Furthermore there is a reference to the BBR entity that the energy consumption was attached to.

If not, there will be one or more elements, where ResponseReasonIdentifier and ResponseReasonText can take the following values.

Value of ResponseReasonIdentifier	Value of ResponseReasonText	In use
6000	Energiforsyningsselskab med CVR nummer <value> er ikke oprettet i BBR databasen	Yes
6001	Energiforsyningsart <value> er ikke oprettet i BBR databasen	Yes
6002	Energimåleenhed <value> er ikke oprettet i BBR databasen	No
6003	Valideringsfejl ved oprettelse af energiforbrug: <value>	No
6004	Energiafregningsstatus <value> er ikke oprettet i BBR databasen	Yes
6005	Kommunenummer <value> er ikke gyldigt	No
6006	Postnummer <value> er ikke gyldigt	No
6007	Husnummer <value> er ikke gyldigt	No
6008	Vejkode <value> er ikke gyldigt	Yes
6009	Ejendomsnummer <value> er ikke gyldigt	No
6010	Bygningsnummer <value> er ikke gyldigt	No
6011	Energiforbruget kunne ikke tilknyttes til en BBR entitet	Yes
6012	Energiforbrug med den angivne nøgle findes ikke	No
6015	Der blev ikke fundet en enhedsadresse med de angivne adresseoplysninger	No
6016	Der blev ikke fundet en enhed med den angivne enhedsadresse	No

6017	Der blev ikke fundet en adgangsadresse med de angivne adresseoplysninger	No
6018	Der blev ikke fundet en bygning eller en grund med den angivne adgangsadresse	No
6019	Der blev ikke fundet nogle grunde med den (hhv. det) angivne adgangsadresse (hhv. ejendomsnummer)	No
6021	Energimåleenhed <value> må ikke benyttes sammen med forbrugsart <value>	No
6023	Der blev ikke fundet en udskrivningsmatrikel på ejendommen med det angivne ejendomsnummer	No
6025	Der kunne ikke knyttes til en bygning gennem kommunenummer/ejendomsnummer/bygningsnummer, da ikke alle felter er udfyldt	No
6026	Der kunne ikke knyttes til en grund gennem kommunenummer/ejendomsnummer, da begge felter ikke er udfyldt	No
6027	Der blev ikke fundet en grund med det angivne ejendomsnummer	No
6028	Der blev ikke fundet en bygning med det angivne kommunenummer, ejendomsnummer, bygningsnummer	No
9999	<Fatal unexpected error>	No

5.6 Stormrådet

The purpose of this service is to enable the maintenance for the Storm Council (Stormrådet). This service is designed specifically for Stormrådet and will not be made available to other clients.

Provider	Area	Value
BBR 2.0 (identical to BBR 1.8)	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	SOAP
	Security	STS (SAML Token)
	Address	Preprod: https://pp2-sg.bbr.dk/External/StormradetService Prod: https://sg.bbr.dk/External/StormradetService

The service contains just one method BygningUpdate. The purpose of this method is to provide update operation for BBR Bygning object. The structure of this method is described in the below section.

5.6.1 General

5.6.1.1 Output

All service operations have the same output structure which is shown in the following table.

Name	Type	Description
Status	Status (described in section 5.1.1.3)	Response status
ValidationErrors	Array of ValidationMessage	Each ValidationMessage contains: <ul style="list-style-type: none"> • ValidationCode (String) • Description (String) • Type (Enum) possible values: Warning, Error

5.6.1.2 BBRUpdateStruct

All fields except [Id, TransactionId] in the BygningUpdateData is of type BBRUpdateStruct<T>. This type has a Boolean ValueUpdated and a fieldvalue. The field will **only** be updated in BBR if ValueUpdated is set to true.

This allows deletion of data values by setting ValueUpdate to true, and setting the fieldvalue to NULL.

5.6.1.3 Status

Name	Type	Description
StatusCode	Integer	Status code, possible values: <ul style="list-style-type: none"> • 10 – OK, • 0 – ObjectNotFound, • 20 – UpdateError, • 21 – InvalidFormat, • 99 – UndefinedError Additional codes might be added when needed
Message	String	Status message (description)

5.6.2 BygningUpdate

BygningUpdate allows an update of an existing Bygning.

The following table describes the input parameters allowed. For output structure see Section 5.6.1.1.

Name	Type	Description
selectedScope	EffectiveScopeDto	Security/identity scope selected by the client. See chapter 2.3.1 for details.
Id	UUID	Id of the Bygning
Data	BygningUpdateData	Bygning data (as described in following table)

TransactionId	UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
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The following table describes the BygningUpdateData structure.

Field	Type	Description
Byg111StormrådetsOversvømmelsesSelvrisko	BBRUpdateStruct <CodeValue as string>	Codelist: Oversvømmelsesselvrisko
Byg112DatoForRegistreringFraStormrådet	BBRUpdateStruct <Nullable DateTime>	
Byg403ØvrigeBemærkningerFraStormrådet	BBRUpdateStruct <String>	

The normal rule validation is not executed for BygningUpdate. The only validation that take place is:

- Validation for Byg111StormrådetsOversvømmelsesSelvrisko codelist
- Validation for Byg112DatoForRegistreringFraStormrådet DateTime format – should be in UTC format

5.7 DAROwnershipService

This section describes DAROwnershipService that is consumed by DAR. The services are designed specifically for DAR purposes, and will generally not be made available to other clients.

Provider	Area	Value
BBR 2.0	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	SOAP
	Security	Client Certificate
	Address	Preprod: https://pp2-sg.bbr.dk/External/DAROwnershipService Prod: https://sg.bbr.dk/External/DAROwnershipService

5.7.1 GetOwnershipData

This service method is used to get ownership information. The service gets owners by address or husnummer id.

Service	Method	Parameters	Output
DAROwnershipService	GetOwnershipData	[DAROwnershipRequest] request	List<DAROwnershipResponse>

5.7.1.1 Parameters

Name	Type	Description
AdressIdentificator	Guid	UUID of address or husnummer
AdressIdentificatorType	AdressIdentificatorTypeEnum	Address identificaor type Possible values: Husnummer, Adresse

5.7.1.2 Output

The output is a list of DAROwnershipResponse

Name	Type	Description
Navn	String	Owner name
FuldAdresse	String	Address
OwnerKind	OwnerKindEnum	Possible values: CPR, CVR, Other10DigitIdentifier, UnknownKind
OwnerType	OwnerTypeEnum	Possible values: Hovedejer, Administrator, Medejer, Ligestillingsejer, Undefined
Kommunekode	String	The municipality code
EjendomsNummer	Nullable long	Number of ejendoms relation
BFENummer	Nullable long	Bfe number of ejendoms relation
EjendomsType	EjendomsTypeEnum	Type of ejendoms relation. Possible values: BPF, SFE, Ejerlejlighed
EjendomsRelationId	Guid	Id of ejendoms relation
AdressId	Guid	Id of address
IsFullAdministrator	Bool	True if this administrator is full (Fast) administrator for the property
IsPrimaryOwner	Bool	True if this owner is the primary owner

5.7.1.3 Output errors

In the case of an error, the OwnershipFault will be returned. OwnershipFault is described below.

Name	Type	Description
DAROwnershipServiceFaultCode	DAROwnershipServiceFaultCodeEnum	Possible values: ObjectNotFoundInBBR, UnexpectedFault
ExceptionMessage	String	Exception message

5.8 DAR

This section describes that BBR provides which are consumed by DAR. The services are designed specifically for DAR purposes, and will generally not be made available to other clients.

Provider	Area	Value
BBR 2.0 (identical to BBR 1.8)	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	SOAP
	Security	Client Certificate
	Address	Preprod: https://pp2-sg.bbr.dk/External/DARServiceV1 Preprod: https://pp2-sg.bbr.dk/External/DAR10Service Prod: https://sg.bbr.dk/External/DARServiceV1 Prod: https://sg.bbr.dk/External/DAR10Service

5.8.1 AddressAccessInUse

This service is used to validate if a given Husnummer (Adgangsadresse) is in use currently in BBR. The service checks if any currently valid Grund, Bygning, TekniskAnlaeg or Opgang has a reference to given Husnummer Id (GUID).

Service	Method	Parameters	Output
DARServiceV1	AddressAccessInUse	[AddressAccessInUseRequest] request	AddressAccessInUseResponse

5.8.1.1 Parameters

Name	Type	Description
AddressAccessIdentifier	String	UUID of BBRHusnummer (AdgangsAdresse)

5.8.1.2 Output

Name	Type	Description
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ReturnMessage	List of ReturnMessageType objects	Please see ReturnMessageType table
InUseIndicator	Boolean	Flag indicating if BBRHusnummer (AdgangsAdresse) is in use.

ReturnMessageType

Name	Type	Description
ResponseReturnIdentifier	String	Return code: <ul style="list-style-type: none"> “0” (OK) “10” (Error) “20” (Validation)
ResponseReasonIdentifier	String	Same value as ResponseReturnIdentifier
ResponseReasonText	String	Description of the response

5.8.2 AddressSpecificInUse

This service is used to validate if a given Adresse (Enhedsadresse) is in use currently in BBR. The service checks if any currently valid Enhed has a reference to given Adresse Id (GUID).

Service	Method	Parameters	Output
DARServiceV1	AddressSpecificInUse	[AddressSpecificInUseRequest] request	AddressSpecificInUseResponse

5.8.2.1 Parameters

Name	Type	Description
AddressSpecificIdentifier	String	UUID of BBRAadresse (EnhedsAdresse)

5.8.2.2 Output

Name	Type	Description
ReturnMessage	List of ReturnMessageType objects	Please see ReturnMessageType table
InUseIndicator	Boolean	Flag indicating if BBRAadresse (EnhedsAdresse) is in use.

ReturnMessageType

Name	Type	Description
ResponseReturnIdentifier	String	Return code: <ul style="list-style-type: none"> “0” (OK)

		<ul style="list-style-type: none"> • “10” (Error) • “20” (Validation)
ResponseReasonIdentifier	String	Same value as ResponseReturnIdentifier
ResponseReasonText	String	Description of the response

5.9 Byg og Miljø

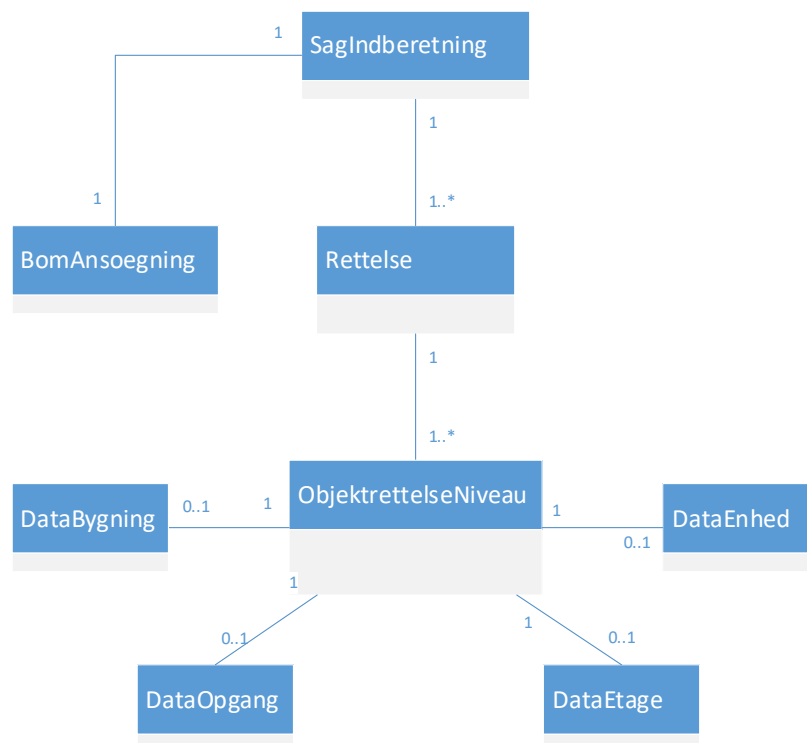
The purpose of this service is to allow Byg og Miljø (BoM) to send information regarding Sagsdata (case data) directly to BBR, which then has to be approved by the municipality.

This is done through “Structured Enquiries”, which is used by RetBBR for changes to Stamdata (master data) as described in section 4.3, and used by BoM through this service for changes to Sagsdata. Structured Enquiries received by BBR for changes to Sagsdata will be referred to in this document as *sags-indberetninger*.

This service accepts sags-indberetninger from BoM, structured in a fashion that corresponds with BBR data structures. The service supports data regarding four entity types: Bygning, Etage, Opgang, and Enhed.

The service is a “delta” service in the regard that only some IDs are required along with some metadata. Other than that, a sag-indberetning only needs to specify values for the object properties that should change on the existing BBR Sagsdata. Note that this service does *not* support deleting the contents of a field.

The sags-indberetning structure is such that one sags-indberetning must have one or more Rettelse-objects. Each Rettelse then has one or more ObjektrettelseNiveau of which exactly 1 must be of type Bygning. ObjektrettelseNiveau then points to a sags-indberetning DataObject of an entity type matching its base object, i.e. an ObjektrettelseNiveau of type Bygning has a SagIndberetningDataObject of type Bygning. The SagIndberetningDataObject contains all the changes desired for the object. Lastly, the sags-indberetning must also have a related BoM-ansøgning (BoM-application). For a visual representation of the structure, see the following figure:



Provider	Area	Value
BBR 2.4.7	Context	Provider of service
	Communication pattern	Synchronous request-Response
	Transportation	HTTPS
	Format	SOAP
	Security	Client certificate
	Address	Preprod: https://pp2-sg.bbr.dk/External/SagIndberetningServiceV1 Prod: https://sg.bbr.dk/External/SagIndberetningServiceV1

5.9.1 Limitations

This service has been written with a specific purpose in mind, while repurposing the existing Structured Enquiry data-structures, which means that the service has some limitations. The most common ones are:

- It is not possible to remove any objects from a sags-indberetning that were previously sent to the service.
E.g. if a previous call to the service included a Rettelse with ExternalIdentifier=ABC, all subsequent calls to the service must also include a Rettelse with that identifier.
- It is not possible to create several objects in a sags-indberetning that refer to each other.
E.g. if a sags-indberetning contains an Enhed and two Etage objects, it is not possible via the service to specify which Etage-object the Enhed is intended to be placed on.

5.9.2 UpsertIndberetning

This servicemethod supports upserting (inserting/updating) sags-indberetning objects. When updating an existing sags-indberetning, it is possible to update fields on previously inserted sags-indberetning data at the same time as adding e.g. new Rettelse-objects to the sags-indberetning.

Whether to insert new data, or update existing data, is determined based on the BomNummer and the ExternalIdentifier field on objects in the call.

When updating a previously inserted sags-indberetning, the *SenesteAendringsdatoFraBom* field on *BomAnsoegningDto* and *SagObjektrrettelseNiveauDto* must be set to a newer date than the previously received corresponding object, for the service to update data for that object and any objects deeper in the sags-indberetning-hierarchy. Otherwise, any changes to those objects are discarded when processing the input.

5.9.2.1 Parameters

If a max-length of a parameter of type String is not specified, the max-length is 200 characters.

Name	Type	Description
Kommunekode	String	Kommunekode (4 digit)
BomAnsoegning	BomAnsoegningDto	The BoM ansøgning that the call concerns.
Rettelser	List<SagIndberetningRettelseDto>	A complete list of rettelser for the given BoM ansøgning.

TransactionId	Nullable UUID	Optional transaction ID used for tracing logs related to the transaction. If not provided BBR will generate an internal transaction ID.
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BomAnsoegningDto

Name	Type	Description
BomNummer	String	The BoM number of the BoM ansøgning.
Byggesagsnummer	String (max 50 characters)	The Byggesagsnummer of the BoM ansøgning
MatrikelNumre	List<SagIndberetningMatrikelIdentifier>	A list of MatrikelNumre that the BoM ansøgning is related to.
BomSagsstatus	String	Case status of the BoM ansøgning
BfeNumre	List<int>	A list of BFE-numbers that the BoM ansøgning is related to
Ansoegningstype	String	The type of the BoM ansøgning.
Byggetilladelsesdato	Nullable DateTime	Datetime for Byggetilladelse
Paabegyndelsesdato	Nullable DateTime	Datetime for Påbegyndelsesdato
FuldførelseAfByggeri	Nullable DateTime	Datetime for Fuldførelse Af Byggeri
Ibrugtagningstilladelse	Nullable DateTime	Datetime for Ibrugtagningstilladelse
SenesteAendringstidspunktFraBom	DateTime	Datetime representing when BoM last made changes to fields on the BoM-ansøgning. See the text in section 5.9.2 for how this field impacts processing of upserts.
Ansoegningsbemaerkning	String (max 500 characters)	A short description of the BoM ansøgning

SagIndberetningMatrikelIdentifier

Name	Type	Description
MatrikelNummer	String	The matrikel (cadastral) number
Ejerlavskode	Long	The ejerlavskode (ownership code)

SagIndberetningRettelseDto

Name	Type	Description
ExternalIdentifier	String	A key identifying this Rettelse created by the calling system, and used to determine whether a given call to the service attempts

		to insert new Rettelse-data, or update existing Rettelse-data.
ObjekttrettelseNiveauer	List<SagObjekttrettelseNiveauDto>	A complete list of underlying ObjekttrettelseNiveau objects

SagObjekttrettelseNiveauDto

Name	Type	Description
StamDataId	Nullable UUID	A suggestion from BoM regarding which stam BBR-object this change is related to.
SagsDataId	Nullable UUID	A suggestion from BoM regarding which BBR-object in an existing case this change should be applied to.
HenvendelseDataBygning	SagIndberetningBygningDto	Refer to "SagIndberetningData objects" section for description.
HenvendelseDataEnhed	SagIndberetningEnhedDto	Refer to "SagIndberetningData objects" section for description.
HenvendelseDataOpgang	SagIndberetningOpgangDto	Refer to "SagIndberetningData objects" section for description.
HenvendelseDataEtage	SagIndberetningEtageDto	Refer to "SagIndberetningData objects" section for description.
ExternalIdentifier	String	A key identifying this ObjekttrettelseNiveau created by the calling system, and used to determine whether a given call to the service attempts to insert new ObjekttrettelseNiveau-data, or update existing ObjekttrettelseNiveau-data.
EntityType	An enum with one of the following values: <ul style="list-style-type: none"> 2 – BYG 4 – OPG 5 – ETA 6 – ENH 	The EntityType of the ObjekttrettelseNiveau, which must match the Data object.
ChangeType	An enum with one of the following values: <ul style="list-style-type: none"> Nybyggeri TilOmbygning Nedrivning 	The case type that this ObjekttrettelseNiveau corresponds to.
SenesteAendringsdatoFraBom	DateTime	Datetime representing when BoM last made changes to fields on the ObjekttrettelseNiveau or the underlying Data object.

		See the text in section 5.9.2 for how this field impacts processing of upserts.
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The input structure must follow these rules:

- The Indberetning must have at least 1 Rettelse
- A Rettelse must have at least 1 ObjektrettelseNiveau, of which exactly 1 must be a Bygning.
- For each ObjektrettelseNiveau:
 - Must contain 1 and only 1 data object.
 - The field EntityType on ObjektrettelseNiveau's must match the data object.
- All codeValue strings correspond to valid codeValues
- Any filled out references to existing BBR-data must be valid.

If any of the validity checks fail, an error message will be returned telling the client why the input did not pass the validity check.

5.9.2.2 SagIndberetningData objects

The information the sags-indberetning wants to change is stored in the following objects.

Many of the values are based on codelists, these will have the type "CodeValue as string".

5.9.2.2.1 SagIndberetningBygningDto

As a Rettelse must contain exactly one ObjektrettelseNiveau of type Bygning, it can be necessary to create a Bygning-object that holds no values when creating a sags-indberetning with changes to Opgang, Etage, or Enhed.

Field	Type	Description
Husnummer_id	Nullable uuid	Identifier for address of object.
Jordstykke_id	Nullable uuid	Specifies the Matrikel of the Bygning.
Byg007Bygningsnummer	Nullable long	The bygningsnummer to give the Bygning
Byg021BygningensAnvendelse	CodeValue as string	Codelist: Bygningsanvendelse
Byg026Opførelsesår	Nullable long	
Byg027OmTilbygningsår	Nullable long	
Byg029DatoForMidlertidigOpførtBygning	Nullable DateTime	
Byg030Vandforsyning	CodeValue as string	Codelist: Vandforsyning
Byg031Afløbsforhold	CodeValue as string	Codelist: Afløbsforhold
Byg032YdervæggensMateriale	CodeValue as string	Codelist: Ydervæggens materiale
Byg033Tagdækningsmateriale	CodeValue as string	Codelist: Tagdækningsmateriale
Byg034SupplerendeYdervæggensMateriale	CodeValue as string	Codelist: Ydervæggens materiale

Byg035SupplerendeTagdækningsMateriale	CodeValue as string	Codelist: Tagdækningsmateriale
Byg036AsbestholdigtMateriale	CodeValue as string	Codelist: Asbestholdigt materiale
Byg037KildeTilBygningensMaterialer	CodeValue as string	Codelist: Kilde til oplysninger
Byg038SamletBygningsareal	Nullable long	
Byg039BygningensSamledeBoligAreal	Nullable long	
Byg040BygningensSamledeErhvervsAreal	Nullable long	
Byg041BebyggetAreal	Nullable long	
Byg042ArealIndbyggetGarage	Nullable long	
Byg043ArealIndbyggetCarport	Nullable long	
Byg044ArealIndbyggetUdhus	Nullable long	
Byg045ArealIndbyggetUdestueEllerLign	Nullable long	
Byg046SamletArealAfLukkedeOverdækningerPåBygningen	Nullable long	
Byg047ArealAfAffaldsrumITerrænniveau	Nullable long	
Byg048AndetAreal	Nullable long	
Byg049ArealAfOverdækketAreal	Nullable long	
Byg051Adgangsareal	Nullable long	
Byg053BygningsarealerKilde	CodeValue as string	Codelist: Kilde til oplysninger
Byg054AntalEtager	Nullable long	
Byg055AfvigendeEtager	CodeValue as string	Codelist: Afvigende etager
Byg056Varmeinstallation	CodeValue as string	Codelist: Varmeinstallation
Byg057Opvarmningsmiddel	CodeValue as string	Codelist: Opvarmningsmiddel
Byg058SupplerendeVarme	CodeValue as string	Codelist: Supplerende varme
Byg063ArealAfIndbyggetGarageIKælder	Nullable long	
Byg069Sikringsrumpladser	Nullable long	
Byg070Fredning	CodeValue as string	Codelist: Fredning Feltet bør ikke bruges og udgår i næste service version.
Byg071BevaringsværdighedReference	String	Feltet bør ikke bruges og udgår i næste service version.

Byg094Revisionsdato	Nullable DateTime	Feltet bør ikke bruges og udgår i næste service version.
Byg111StormrådetsOversvømmelsesSelvrisk ko	CodeValue as string	Codelist: Oversvømmelsesselvrisiko Feltet bør ikke bruges og udgår i næste service version.
Byg112DatoForRegistreringFraStormrådet	Nullable DateTime	Feltet bør ikke bruges og udgår i næste service version.
Byg113Byggeskadeforsikringsselskab	CodeValue as string	Codelist: Byggeskadeforsikringsselskab
Byg114DatoForByggeskadeforsikring	Nullable DateTime	
Byg119Udledningstilladelse	CodeValue as string	Codelist: Udledningstilladelse
Byg121OmfattetAfByggeskadeforsikring	CodeValue as string	Codelist: Omfattet af byggeskadeforsikring
Byg122Gyldighedsdato	Nullable DateTime	Feltet bør ikke bruges og udgår i næste service version.
Byg123MedlemskabAfSpildevandsforsyning	CodeValue as string	Codelist: Medlemskab af spildevandsforsyning
Byg124PåbudVedrSpildevandsafledning	String	
Byg125FristVedrSpildevandsafledning	Nullable DateTime	
Byg126TilladelseTilUdtræden	CodeValue as string	Codelist: Tilladelse til udtræden
Byg127DatoForTilladelseTilUdtræden	Nullable DateTime	
Byg128TilladelseTilAlternativBortskaffelseEllerAfledning	CodeValue as string	Codelist: Tilladelse til alternativ bortskaffelse
Byg129DatoForTilladelseTilAlternativBortskaffelseEllerAfledning	Nullable DateTime	
Byg130ArealAfUdvendigEfterisolering	Nullable long	
Byg131DispensationFritagelseIftKollektivVarmeforsyning	CodeValue as string	Codelist: Disp. ift. kollektiv varmforsyning
Byg132DatoForDispensationFritagelseIftKollektivVarmeforsyning	Nullable DateTime	
Byg136PlaceringPåSøterritorie	CodeValue as string	Codelist: Bygværk på søterritorie
Byg137BanedanmarkBygværksnummer	String	Feltet bør ikke bruges og udgår i næste service version.
Byg133KildeTilKoordinatsæt	CodeValue as String	Codelist: Kilde til koordinatsæt

Byg134KvalitetAfKoordinatsæt	CodeValue as String	Codelist: Kvalitet af koordinatsæt Feltet bør ikke bruges og udgår i næste service version.
Byg141Dækningsafgift	CodeValue as String	Codelist: Bygningens dækningsafgift Feltet bør ikke bruges og udgår i næste service version.
Byg404Koordinat	String (WKT)	Well Known Text representation of coordinates (geometry)
Byg406Koordinatsystem	CodeValue as String	Codelist: Koordinatsystem
Byg403ØvrigeBemærkningerFraStormrådet	String	Feltet bør ikke bruges og udgår i næste service version.

5.9.2.2.2 SagIndberetningEnhedsDto

Field	Type	Description
Opgang_id	Nullable uuid	Identifier of Opgang object is placed in
Etage_id	Nullable uuid	Identifier of Etage object is placed on
BygningsEtageBetegelse	string	Notation for Etage opgang is placed on
Adresse_id	Nullable uuid	Identifier of Enheds address
Enh020EnhedensAnvendelse	CodeValue as string	Codelist: Enhedsanvendelse
Enh024KondemneretBoligenhed	CodeValue as string	Codelist: Kondemneret boligenhed
Enh025OprettelsesdatoForEnhedsIdentifikation	Nullable DateTime	
Enh026EnhedensSamledeAreal	Nullable long	
Enh027ArealTilBeboelse	Nullable long	
Enh028ArealTilErhverv	Nullable long	
Enh030KildeTilEnhedensArealer	CodeValue as string	Codelist: Kilde til oplysninger
Enh031AntalVærelser	Nullable long	
Enh032Toiletforhold	CodeValue as string	Codelist: Toiletforhold
Enh033Badeforhold	CodeValue as string	Codelist: Badeforhold
Enh034Køkkenforhold	CodeValue as string	Codelist: Køkkenforhold
Enh035Energiforsyning	CodeValue as string	Codelist: Energiforsyning

Enh039AndetAreal	Nullable long	
Enh041LovligAnvendelse	CodeValue as string	Codelist: Lovlig anvendelse
Enh042DatoForTidsbegrænsetDispensation	Nullable DateTime	
Enh044DatoForDelvisbrugtagningsTilladelse	Nullable DateTime	
Enh045Udlejningsforhold	CodeValue as string	Codelist: Udlejningsforhold Feltet bør ikke bruges og udgår i næste service version.
Enh046OffentligStøtte	CodeValue as string	Codelist: Offentlig støtte
Enh047IndflytningDato	Nullable DateTime	
Enh048GodkendtTomBolig	CodeValue as string	Codelist: Godkendt tom bolig
Enh051Varmeinstallation	CodeValue as string	Codelist: Varmeinstallation
Enh052Opvarmningsmiddel	CodeValue as string	Codelist: Opvarmningsmiddel
Enh053SupplerendeVarme	CodeValue as string	Codelist: Supplerende varme
Enh059EnhedensAndelI FællesBoligareal	Nullable long	
Enh060EnhedensAndelI FællesAdgangsareal	Nullable long	
Enh062ArealAfLukketOverdækningUdestue	Nullable long	
Enh063AntalVærelserTilErhverv	Nullable long	
Enh065AntalVandskylledeToiletter	Nullable long	
Enh066AntalBadeværelser	Nullable long	
Enh067Støjisolering	Nullable long	
Enh070TagterasseAreal	Nullable long	
Enh101Gyldighedsdato	Nullable DateTime	Feltet bør ikke bruges og udgår i næste service version.
Enh141Dækningsafgift	CodeValue as String	Codelist: Enhedens dækningsafgift Feltet bør ikke bruges og udgår i næste service version.

5.9.2.2.3 SagIndberetningOpgangDto

Field	Type	Description
AdgangFraHusnummer_id	Nullable uuid	Identifier for address of object

Bygning_id	Nullable uuid	Identifier of Bygning object is placed in
Opg020Elevator	CodeValue as string	Codelist: Elevator

5.9.2.2.4 SagIndberetningEtagDto

Field	Type	Description
Bygning_id	Nullable uuid	Identifier of Bygning object is placed in
Eta006BygningensEtagetegnelse	string	
Eta020SamletArealAfEtag	Nullable long	
Eta021ArealAfUdnyttetDelAfTage	Nullable long	
Eta022Kælderareal	Nullable long	
Eta023ArealAfLovligBeboelseKælder	Nullable long	
Eta025Etagetype	CodeValue as string	Codelist: Etagetype
Eta026Erhvervskælder	Nullable long	

5.9.2.3 Output

When the service-call finishes, it returns a list of validation messages and a statuscode. If the sags-indberetning is added successfully the list of validation messages will be empty and the 'Ok' success-status will be returned. Otherwise an error-status is returned, and the list of validation messages will describe what went wrong.

Name	Type	Description
Status	Status (described in section 5.9.2.3.1)	Response status
ValidationErrors	List of ValidationMessage	Each ValidationMessage contains: <ul style="list-style-type: none"> • ValidationCode (String) • Description (String) • Type (Enum) possible values: Warning, Error

5.9.2.3.1 Status

Name	Type	Description
StatusCode	Integer	Status code, possible values: <ul style="list-style-type: none"> • 1 – Ok, • 20 – ValidationError • 21 – AccessDenied • 22 – ServiceError

		<ul style="list-style-type: none">• 999 – Unexpected failure Additional codes might be added when needed.
Message	String	Status message (description)