

DSO Viewer — API Reference

How the LDE viewer talks to the Digitaal Stelsel Omgevingswet.

6

UPSTREAM DSO APIS

16

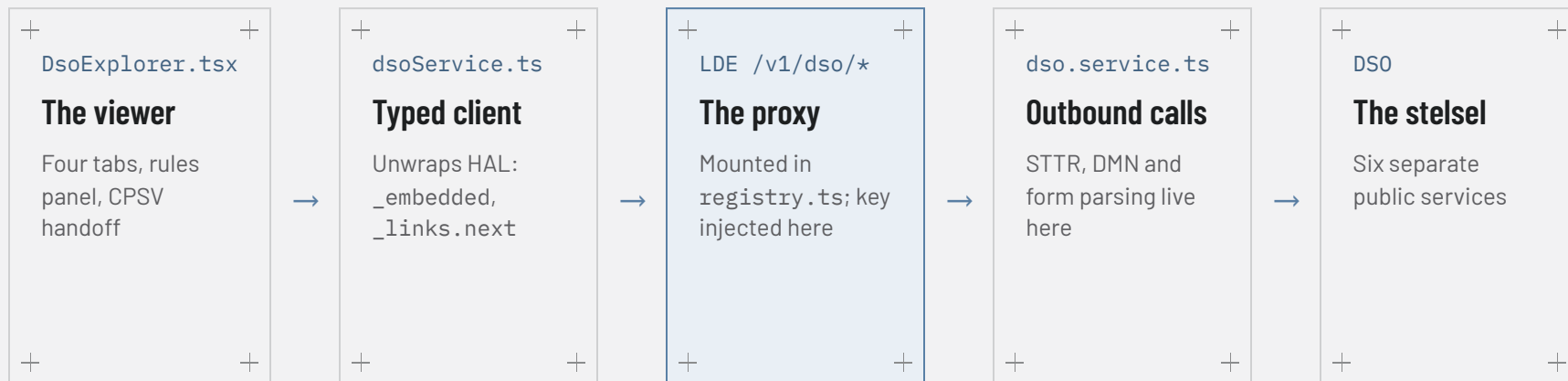
LDE PROXY ENDPOINTS

2

ENVIRONMENTS, ONE HEADER

The call path

The frontend never calls DSO directly. Every request is proxied.



What the proxy layer buys us

01 · CREDENTIAL

The key stays server-side

The backend attaches `x-api-key` to every outbound request. Separate keys for pre and prod; neither is bundled into the browser.

02 · ENVIRONMENT

One header switches the stelsel

`X-Dso-Env: prod` or `?env=prod` — header wins, anything else falls back to pre.

03 · PAYLOAD

HAL travels verbatim

Responses pass through untouched inside `{ success, data }`. The client does the unwrapping, so DSO's own shape stays authoritative.

Environment is a user setting: `1de_dso_env` in `localStorage`, with a pre-production / production badge in the viewer header.

Six upstream DSO APIs

Base URLs are configured per environment and overridable by environment variable.

01

Stelselcatalogus

catalogus/api/
opvragen/v3

Concept and term lookup

02

RTR Gegevens

toepasbare-regels/
rtrgegevens/v2

Activiteiten and their rule objects

03

Zoekinterface

toepasbare-regels/
zoekinterface/v2

Werkzaamheden search and
autocomplete

04

Opvragen Werkzaamheden

opvragen
werkzaamheden/v1

Versioned werkzaamheid detail

05

Uitvoeren Gegevens

toepasbare-regels/
uitvoerengegevens/v1

Rule metadata and STTR download

06

Omgevingsdocumenten Presenteren (Ozon)

omgevingsdocumenten/api/
presenteren/v8

Regulation search, annotation
graph and document-component
text, behind the activity dossier

Four tabs, six APIs

Concepts

BegrippenTab

API 1	GET /begrippen?zoekTerm&geldigOp&page&pageSize	paged 20
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Werkzaamheden

WerkzaamhedenTab

API 3	POST /werkzaamheden/_suggereer · /_zoek	suggest + search
API 4	GET /werkzaamheden/{urn}?pageSize=100	version detail

Activities

ActiviteitenTab

API 2	GET /activiteiten · /activiteiten/{urn} · POST /_zoek	list + detail
API 5	GET /toepasbareRegels	rules panel

Quality Profile

QualityProfileTab

API 2	API 5	API 6	GET /v1/dso/activiteiten/{urn}/dossier	one call
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One call, three APIs, two axes, no single grade

The activity dossier assembles an activity's whole chain; the Quality Profile tab scores it.

THE DOSSIER · ONE CALL

```
GET /v1/dso/activiteiten/{urn}/dossier
```

↓ fans out

API 2 RTR Gegevens

API 5 Uitvoeren Gegevens

API 6 Ozon

Returns the chain: legal source, annotations, decision criteria.

QUALITY PROFILE · TWO AXES



01 The two scores are never combined into a single grade

02 An absent rule set is reported as absent — not as a zero

Activities load in two modes

+

MODE A · DEFAULT

By date

Everything valid on a given date, paged 20 at a time.

GET /v1/dso/activiteiten
?datum&page&pageSize

+

The RTR returns only a code, e.g. GM0995 — so the dropdown needs its own name lookup.

+

MODE B · LEVEL + AUTHORITY

By authority

Pick a level, then an authority within it. One call loads its whole set; the name filter runs client-side.

342	12	21	12
municipalities	provinces	water boards	ministries

POST /v1/dso/activiteiten/oin
{ oin, datum }

+

The RTR wants dd-MM-yyyy, Ozon YYYY-MM-dd: the backend converts per API. No date means today.

Opening an activity costs 1 + N requests

The RTR returns child activities as bare hrefs with no omschrijving, so the panel asks about each one individually – only to read its name.

+

ONE CLICK, FIVE AT A TIME

```
GET /v1/dso/activiteiten/{parent}  
├ GET /v1/dso/activiteiten/{child-1}  
├ GET /v1/dso/activiteiten/{child-2}  
└ ... N, max 5 in flight
```

24

upstream RTR calls to render one panel for *Bedrijfsactiviteiten* – 23 children plus the parent.

+

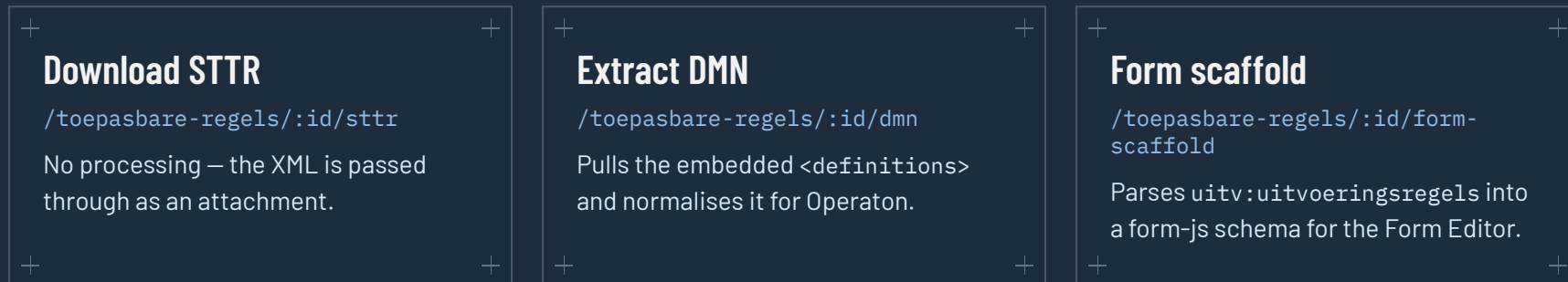
+

- 01 `Promise.allSettled` – one failing child never breaks the panel
- 02 Children that fail, or return no name, fall back to the raw URN – still clickable, just unlabelled
- 03 The `Child activities (N)` count reads the href list, so it stays right when lookups fail
- 04 Each child inherits the parent's datum and env
- 05 Five requests at a time; detail is cached for five minutes, so a re-open within that window costs nothing upstream

From rule object to rule file



One upstream endpoint, three actions – they differ only in what LDE does with the XML.



Five fixes make STTR output evaluable

`normalizeDmnForOperaton` rewrites the extracted decision table on the way out.

-
- 01 DMN 1.2 namespaces rewritten to 1.3
 - 02 Missing id injected on `<input>` and `<inputExpression>`
 - 03 FEEL-safe `<variable>` names, with input expressions rewritten to match
 - 04 `typeRef` added to untyped outputs — the BIZ-004 case
 - 05 `camunda:historyTimeToLive="180"` set per decision
-

Form scaffolding maps question types the same way: boolean to checkbox, list to select, number to number, textarea hint to textarea, everything else to a textfield.
`uitv:geoVerwijzing` is skipped as unrepresentable.

Publishing a DMN is a handoff, not a store

LDE keeps no local DMN store, so the extracted decision is deep-linked to the CPSV Editor.

THE DEEP LINK

```
<VITE_CPSV_EDITOR_URL>/?dsoImport=dmn&dmnId=<id>&env=<pre|prod>
```

Only identifiers travel

The URL carries the DMN id, the environment and activity metadata – never the XML.

A cross-application contract

The CPSV Editor then fetches the XML from
`/v1/dso/toepasbare-regels/{id}/dmn` on this same backend.

Known loose ends



BUILT, NOT WIRED

Geo search has no UI

A WGS84 point search is implemented and tested end to end in both backend and client – no screen calls it yet.



BUILT, NOT EXPOSED

Validity date has no control

Concept search accepts `ge1dig0p` in the backend, but the Concepts tab has no field for it – so historical lookups are out of reach.



OPERATIONS

Runtime pins to a major only

The App Service runtime can only be pinned to a major version, so it and the code's pinned Node must be moved by hand, in the right order.



What we do next

01	Map and point selection Put a UI on the geo endpoint that already works – activities at a clicked location.	frontend only
02	Validity date in the UI Expose <code>geldig0p</code> on concept search to make historical lookups possible.	small
03	Own timeout and defaults for production Give prod its own timeout and align the documented <code>pageSize</code> with the code.	housekeeping