

Nederlandse Notificatie Strategie

7^e bijeenkomst berichtenwerkgroep

16 december 2021

[Pleio website](#)

STANDARD

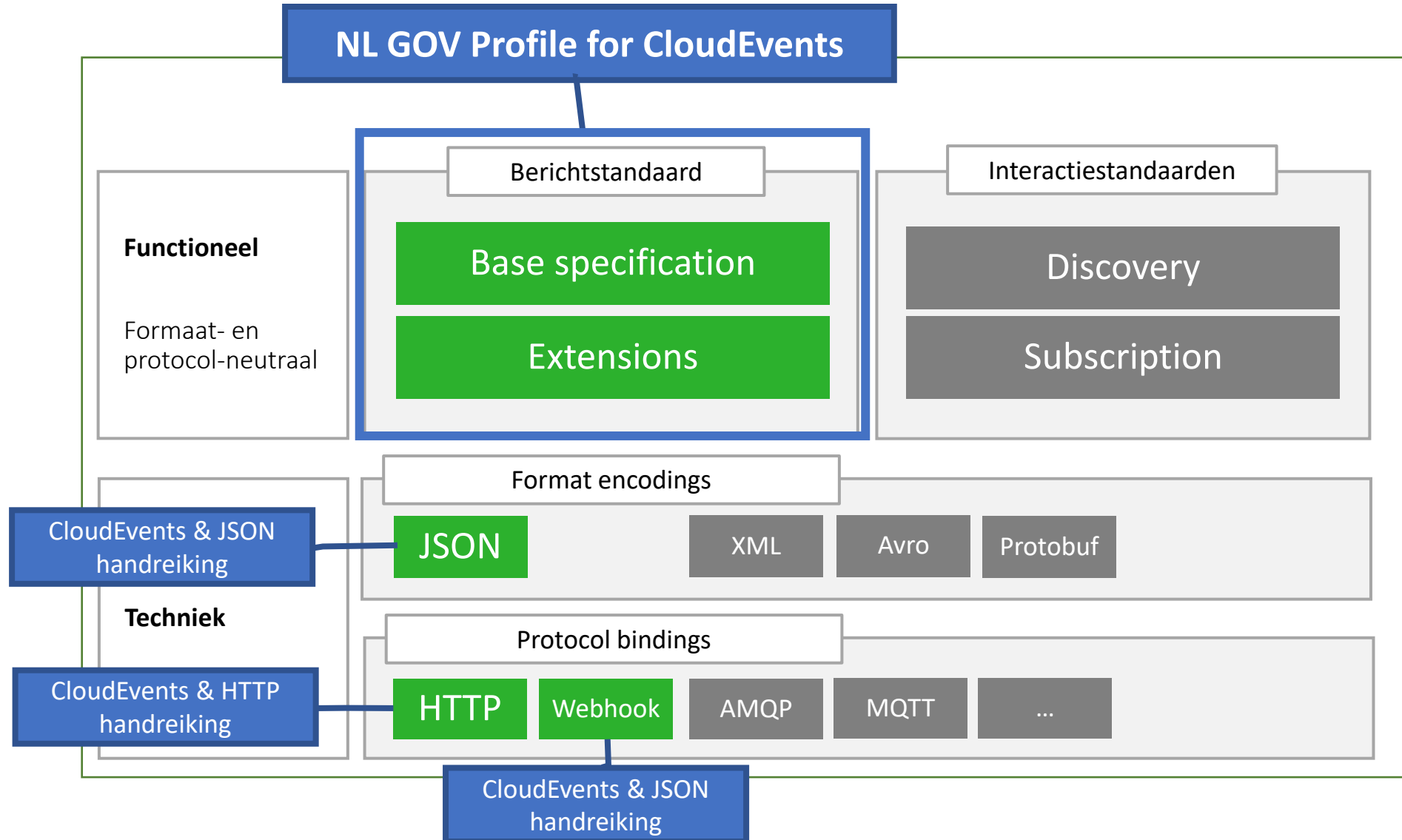
Agenda

1. Inleiding
2. CloudEvents en gebruik van HTTP, JSON, Webhook
3. Stand van zaken en projectvervolg
4. Evaluatie werkgroep

CloudEvents en gebruik van HTTP, JSON, Webhook

Handreiking

Gelaagde architectuur: modulair opleveren



Opgeleverde producten berichtenwerkgroep

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NL GOV profile for CloudEvents v0.2.0

§ 8. Appendix 1: Use of JSON, HTTP and Webhook

This appendix describes how the CloudEvent-NL profile can be applied when using the JSON format, the HTTP protocol and the Webhook pattern.

The CloudEvent-NL message format can be used when using different formats and protocols. CloudEvents has a [layered architecture](#) for this. In order to be able to use the GOV-NL profile properly in practice, agreements must also be made when a certain format and/or protocol is used.

In addition to the CloudEvent specification the [Serverless Working Group](#) has described for [several commonly used formats](#) and protocols how they can be used in a standardized way in combination with the CloudEvents message format.

Within the Dutch government, frequent use is made of the JSON format, the HTTP protocol and the Webhook pattern for data exchange. For example, a common way to send events to consumers is to use the webhook pattern where a message in JSON format is sent via the HTTP protocol. Further standardization than just event description via the NL GOV profile therefore benefits most from agreements around these 3 areas. In addition to standardization through the use of the NL GOV profile, we therefore work towards standardization on exchanging event information when using JSON, HTTP and Webhook.

The NL GOV profile is intended to be used as a government-wide standard. This does not yet apply to the additional specification for the use of JSON, HTTP and Webhook. The specifications for them have the character of 'guidelines' ("a statement by which to determine a course of action", [Wikipedia](#)).

Similar to what happened in the NL GOV profile for the CloudEvents specification, the guidelines make recommendations about the use of the specifications within the context of the Dutch government. These are intended to make use of the specifications more unambiguous and to work towards standardisation in the long term.

For the time being, the following constraints apply:

- One *SHOULD* use the [JSON Event Format for CloudEvents](#) specification and pay attention to the points of attention and recommendations in the guideline [NL GOV Guideline for Cloudevents JSON](#).
- One *SHOULD* use the [HTTP Protocol Binding for CloudEvents](#) specification and pay attention to the points of attention and recommendations in the guideline [NL GOV Guideline for CloudEvents HTTP](#).
- One *SHOULD* use the [HTTP 1.1 Web Hooks for Event Delivery](#) specification and pay attention to the points of attention and recommendations in the guideline [NL GOV Guideline for CloudEvents Webhook](#).

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adgerrits Fix lower naar uppercase json ✓ Latest commit 658f96d 5 minutes ago History

1 contributor

83 lines (69 sloc) 4.96 KB

Guideline for the use of the JSON Event Format for CloudEvents

The CloudEvent-NL message format can be used when using different formats and protocols and patterns. In order to be able to use the GOV-NL profile properly in practice, agreements must also be made when and in what way a certain format, protocol or pattern is used.

The Serverless Working Group has described how the JavaScript Object Notation (JSON) Data Interchange Format can be used in a standardized way in combination with the CloudEvents message format: [JSON Event Format for CloudEvents](#).

Similar to what happened in the NL GOV profile for the CloudEvents specification, this guideline makes recommendations about the use of the JSON specification within the context of the Dutch government. These are intended to make use of the specification more unambiguous and to work towards standardisation in the long term.

The JSON Format for CloudEvents specification defines how events are expressed in JSON. The JSON syntax is not a specification of a complete data interchange. Meaningful data interchange requires agreement between a producer and consumer on the semantics attached to a particular use of the JSON syntax. What JSON does provide is the syntactic framework to which such semantics can be attached.

Summary with points for attention

- Each CloudEvents event can be wholly represented as a JSON object and MUST use the media type `application/cloudevents+json`.
- The [CloudEvents JSONSchema](#) for the spec can be used to validate events in JSON.
- Unset attributes MAY be encoded to the JSON value of null. When decoding attributes and a null value is encountered, it MUST be treated as the equivalent of unset or omitted. OPTIONAL not omitted attributes MAY be represented as a null JSON value.
- The runtime data type of the 'data' content inside the JSON object can be either:
 - a textual JSON value with member name `data`

Opgeleverde producten berichtenwerkgroep

Type	Product	Per 31-12-2021
Concept standaard	NL GOV profile for CloudEvents	Versie 0.2
Handreikingen	NL-GOV-Guideline-for-CloudEvents-and-JSON	Versie 0.1
	NL-GOV-Guideline-for-CloudEvents-and-HTTP	Versie 0.1
	NL-GOV-Guideline-for-CloudEvents-and-Webhooks	Versie 0.1

Stand van zaken en projectvervolg

Introductie en overzicht

Landingspagina

Introductiemateriaal

Standaard + Afspraken: GOV NL profile for CloudEvents

Berichtstandaard

Handreiking HTTP, JSON,
Webhooks

Handreiking interactie
(incl. abonneren)

Samenwerkingsruimte

Ruimte voor discussie,
reviews etc

Tijdgebonden
content

Presentaties

Hackaton

Leerpunten

...

Documentatie

Terminologie

Overzicht bestaande
architectuurpatronen en
technologie

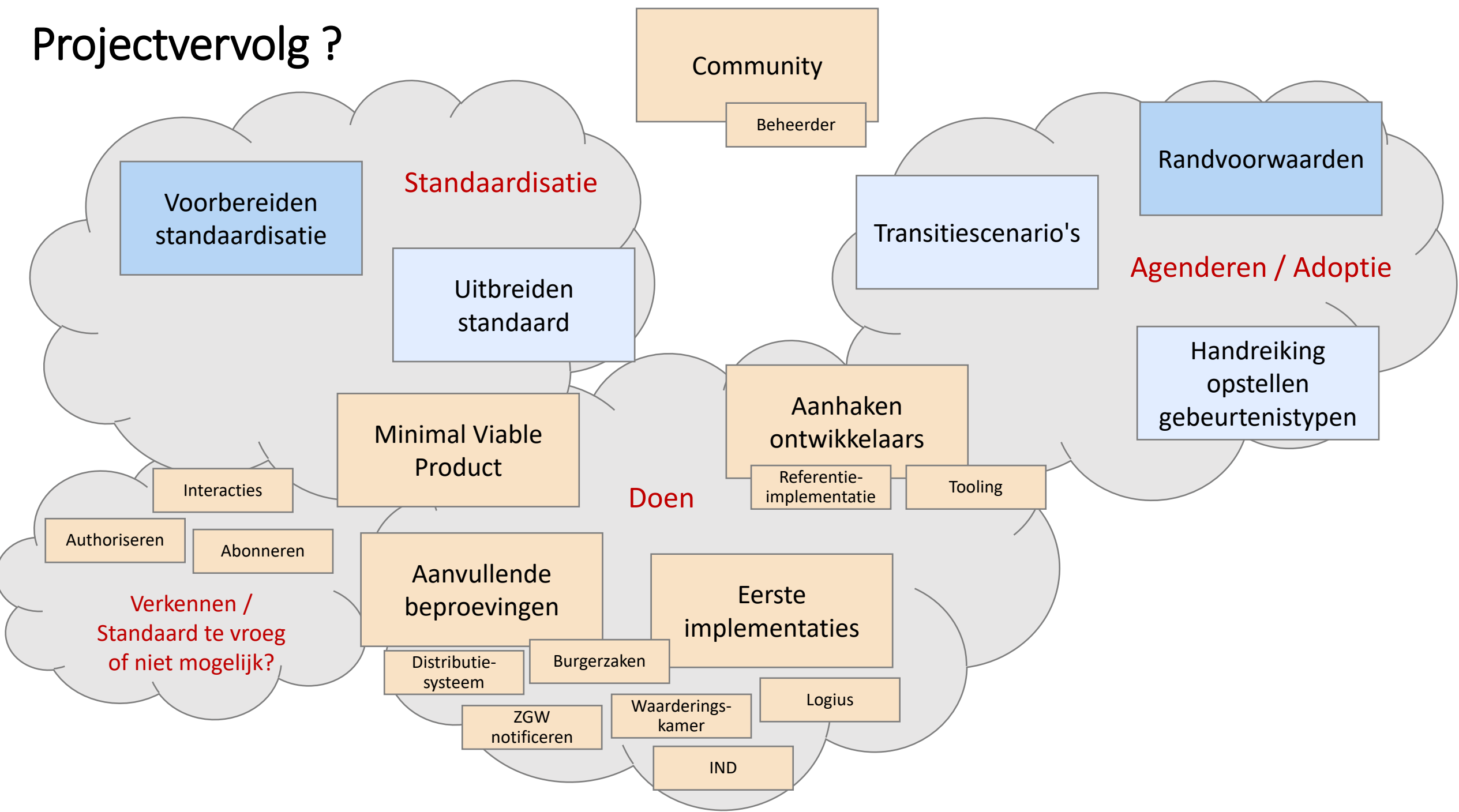
H1-2022
Handreiking definiëren
gebeurtenissen

H1-2022
Transitiescenario's

H1-2022
Overzicht knelpunten
(randvoorwaarden)

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Projectvervolg ?



Evaluatie