





eDelivery AS4

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eDelivery en eDelivery AS4



- eDelivery is een door de EU gekozen set van standaarden t.b.v. gegevensuitwisselingen vergelijkbaar met Digikoppeling
- De eDelivery standaard wordt beheerd door DG_DIGIT
- Binnen eDelivery zijn er profielen gedefinieerd voor zowel ebMS3 als voor REST API's
- eDelivery AS4 is een profiel op basis van ebMS3 AS4:
 - eDelivery AS4 = ebMS3 AS4 + extensies





Functionaliteit eDelivery AS4

eDelivery AS 4

(OASIS) AS 4

Profielen

Non Repudiation
SML/SMP

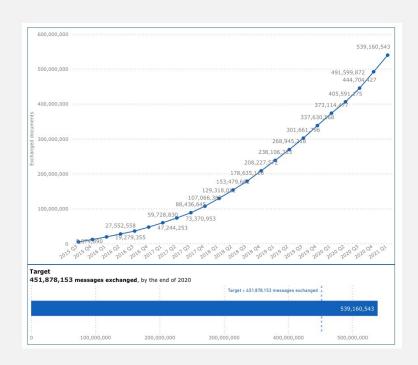
(OASIS) ebMS 3

Functionaliteit





Gebruik Internationaal en Nationaal



https://ec.europa.eu/digital-building-blocks/wikis/display/CEFDIGITAL/eDelivery+dashboard

- eDelivery AS4 is binnen EU de standaard voor internationaal gegevensuitwisseling, basis bouwblok voor vele grote EU projecten (b.v. SDG/OOTS)
- Voorbeelden Internationale toepassing:
 - E-CODEX ECHA ICS2
 - EESSIENTSOG...
 - BORISEPREL
 - PEPPOL
 TACHOnet
- Voorbeelden Nationale toepassing:
 - Energie Sector (EDSN)
 - EDI4Steel
 - eProcurement (PEPPOL)



Verschil in Toepassing

eDelivery AS 4

(OASIS) AS 4

on Repudiati
SML/SMP

(OASIS) ebMS 3

- E-CODEX:
 - Point-to-Point
 - Statische Configuratie
- PEPPOL:
 - Point-to-Point
 - SML/SMP (Discovery)
 - Eigen (PEPPOL) PKI
- EESSI:
 - Point-to-Point (Via Nationale Access Points)
 - CSN (Registratie, Distributie)
 - TESTA PKI voor verkeer tussen AP's
 - 'Publieke' PKI voor nationale applicaties
- BORIS:
 - Ster Netwerk (Centraal Register)





Nieuwe Ontwikkelingen



The eDelivery AS4 profile is being updated. Its main changes relate to the security algorithms used. The profile will introduce ECC-based signing and encryption as its nominal model and downgrade RSA-based signing to legacy status, in line with other AS4 profiles in Europe. It will separate:

- Long-lived certificates used for signing and encrypting messages, normally issued by Certification Authorities
- Short-lived (ephemeral) encryption keys. These keys are generated by the parties directly and shared bilaterally rather than via a registry as they are specific to an individual counterparty.
- It will also add a new feature for updates of security tokens based on OASIS ebCore Agreement Update. This protocol supports using secure messages for securely updating both long-lived and short-lived security tokens, similar to modern security protocols as used in IM apps like Signal.
- It allows an approach similar to management of user accounts in enterprises: an initial process to be onboarded to an organization (usually involving some approval steps, initial setup of passwords and/or tokens) after which the user can self-manage (periodically changing passwords etc.), except for exceptional situations like forgotten or expired passwords that may trigger a re-onboarding.

The updated eDelivery profile specifications will first go through a public review. Products implementing eDelivery need to be adapted to support the new functionality. It will therefore only become relevant for future versions, well after December 2023.





















SAS4.NET



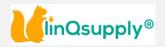










































on navitasoft

















THYS										
Functionality	ebMS 3.0 AS4									
Transport Layer Integrity, Sender Authentication, Receiver Authentication and Message	Transport Layer (SSL / TLS) Security			Digikoppeling						
Confidentiality (Non- Persistent)										
Routing and Dispatching, SOA integration	Mandatory "Service" and "Action" header elements									
Reliable Message	AS4 reception awareness feature for lightweight, interoperable reliable messaging (**)									
Payload Compression	Gzip (**)		Profile Names	Transport characteristics	*	*	—	7	No.	
Party Identification	ebMS 3.0 "From" and "To" party identifiers.		Digikoppeling ebMS2 Best Effort	CPA Creation osb-be	2-ziidig TLS	Reliable n.a	Signed —	Encrypted	Attachments Optional	
Non-Repudiation of Receipt	Signed Receipt Signal Message		Reliable Meseaging End-to-End Security.	osb-rm Best Effort – Signed	√ osb-be-s	√ √	n.a.		Optional _	Optional
Non-Repudiation of Origin	WS-Security 1.1 using XML Signature			Reliable - Signed	osb-rm-e	√ √	√	√ √	_ √	Optional
Message Timestamp	ebMS 3.0 "Timestamp" and WS-Security "Timestamp"			Best Effort – Encrypted Reliable – Encrypted	osb-rm-e	√	n.a. √	√ √	√	Optional Optional
Message Identification	ebMS 3.0 "MessageId"									
Message Correlation	ebMS 3.0 "RefToMessageId" and "ConversationId"									
Message Confidentiality	WS-Security 1.1 using XML Encryption									
Message and Payload Packaging	SOAP 1.2 with attachments		Plus: Grote Berichten	Two-Way Sync	Pull	non-	repudiatio	n SM	L/SMP	
Internet Transport	HTTP 1.1				-					
Exchange Patterns	One Way or Two Way (*)									
Exchange Pattern Bindings	Push, Pull and Sync (*)							DTMI	IS Pub	املا
Core Messaging	Web Services							KIN	LS FUD	IICK



Links

DG DIGIT: https://commission.europa.eu/about-european-commission/departments-and-executive-agencies/informatics en

eDelivery: https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/eDelivery

OASIS: https://www.oasis-open.org

ICN eDelivery: https://ec.europa.eu/digital-building-blocks/wikis/display/EDELCOMMUNITY/Informal+Cooperation+Network+for+eDelivery





