

What is eDelivery?

The eDelivery building block of Digital Europe proposes the use of the **AS4 messaging protocol** to create a secure channel for the transmission of documents and data by electronic means, over the internet or via a private network. AS4 **protects the transmitted data** against the risk of loss, theft, damage or any unauthorised alterations and **provides digitally signed evidence** that serves as an acknowledgment of receipt of the transmitted data.

Projects use eDelivery to exchange documents and data in a secure way among many participants (within Europe and beyond).

Why eDelivery?

- Enables public administrations and businesses to engage in cross-border data exchange using a **common solution based on open standards**.
- **Facilitates interoperability** as the same technology can be reused in multiple sectors and use cases.
- **Makes it easier** for services and software providers to **support a growing market**.

The benefits of eDelivery



Interoperability



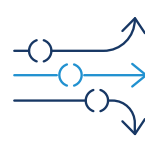
Scalability and performance



Security and accountability



Vendor and platform agnostic



Flexible and configurable



Domain independent

An **eDelivery network** is a network of nodes in which each node is a server operating software conformant with the **AS4 messaging protocol** (multiple software products are available). The nodes are known as AS4 Access Points. eDelivery networks are usually project or domain specific; no general-purpose eDelivery network exists. A participant in a given project **must connect their business application to an AS4 Access Point** that is part of the project's eDelivery network.

To achieve this, the participant **either sets up its own AS4 Access Point** and receives permission to join the network **or connects via a service provider** who is already established as part of the network. Each node in a network can independently configure which other nodes can send it messages, usually following project-wide rules that govern the network configuration.

An eDelivery network is **easily scalable to accommodate thousands of nodes**. The use of a common protocol enables **interoperability** across heterogeneous business applications, as they simply need to connect to the AS4 Access Point to start exchanging data with the other participants of the project.

Message exchange through eDelivery



1 Sender sends message



2 Sender's Access Point processes message

- Validates and compresses the user message
- Signs the compressed message
- Encrypts the signed compressed message

AS4
Acknowledgement



3 Recipient's Access Point processes message

- Receives and decrypts the encrypted message
- Verifies the sender's signature
- Decompresses the decrypted message
- Validates the user message
- Sends the acknowledgement to the Sender's Access Point
- Stores the user message for download

4 Recipient receives message



eDelivery Service Offering

We provide:

Technical specifications based on open standards

Sample software implementing those specifications:

- **Domibus** (eDelivery AS4 Access Point)
- **SMP** (registry of Access Point location and capabilities)
- **SML** (entry point to discover Access Points dynamically)

Operational support, such as a service desk, conformance testing of products implementing eDelivery specifications, enabling services and more

Onboarding assistance (for projects)

Community management services

Learn more here: <https://europa.eu/!8rtpfj>

eDelivery Stakeholders Management and Communication Office



Newsletter



Events



Interoperability Forum



Webinars



The Digital Europe Programme brings
**digital technology to businesses,
citizens, and public administrations**

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European
Commission



eDelivery

Exchange data
and documents
reliably and
securely