

FaStGO – Facilitating Standards for Guarantees of Origin

Task 3.2 – Data Protocol for Multi-energy Carrier and Multi-purpose Certificates - Results

Task 3.3 – High Level System Requirements - Initiation

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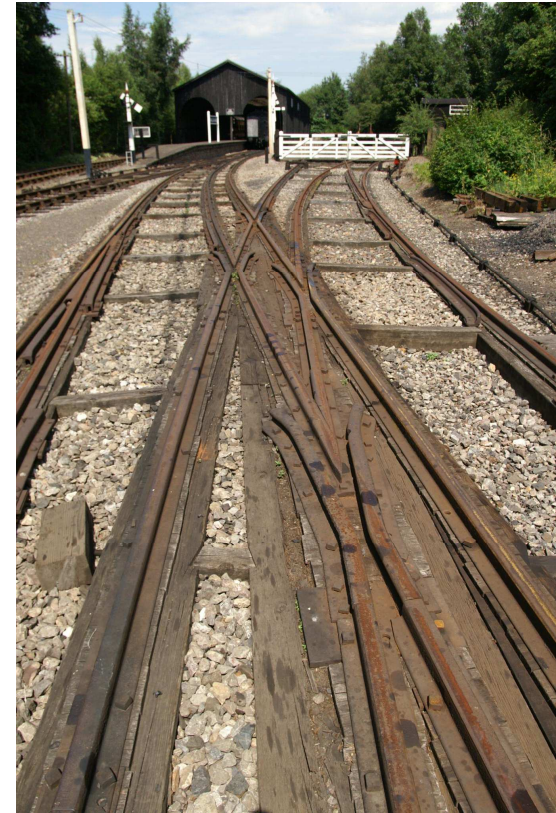


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Why Data Protocol is Key. Now.

- To meet the Summer 2021 deadline, information system design work must start now
- Certificate data content and structure is a very fundamental
- Common data structure is the very basis of a common market
- Discussion on data structure teases the devils out from the details
- Post-implementation changes to data structure are very expensive



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Challenges and Strategies Chosen

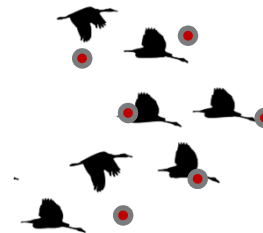
1. Moving target

- Enough lead



2. Multiple targets

- Shotgun



3. Versatile interest groups

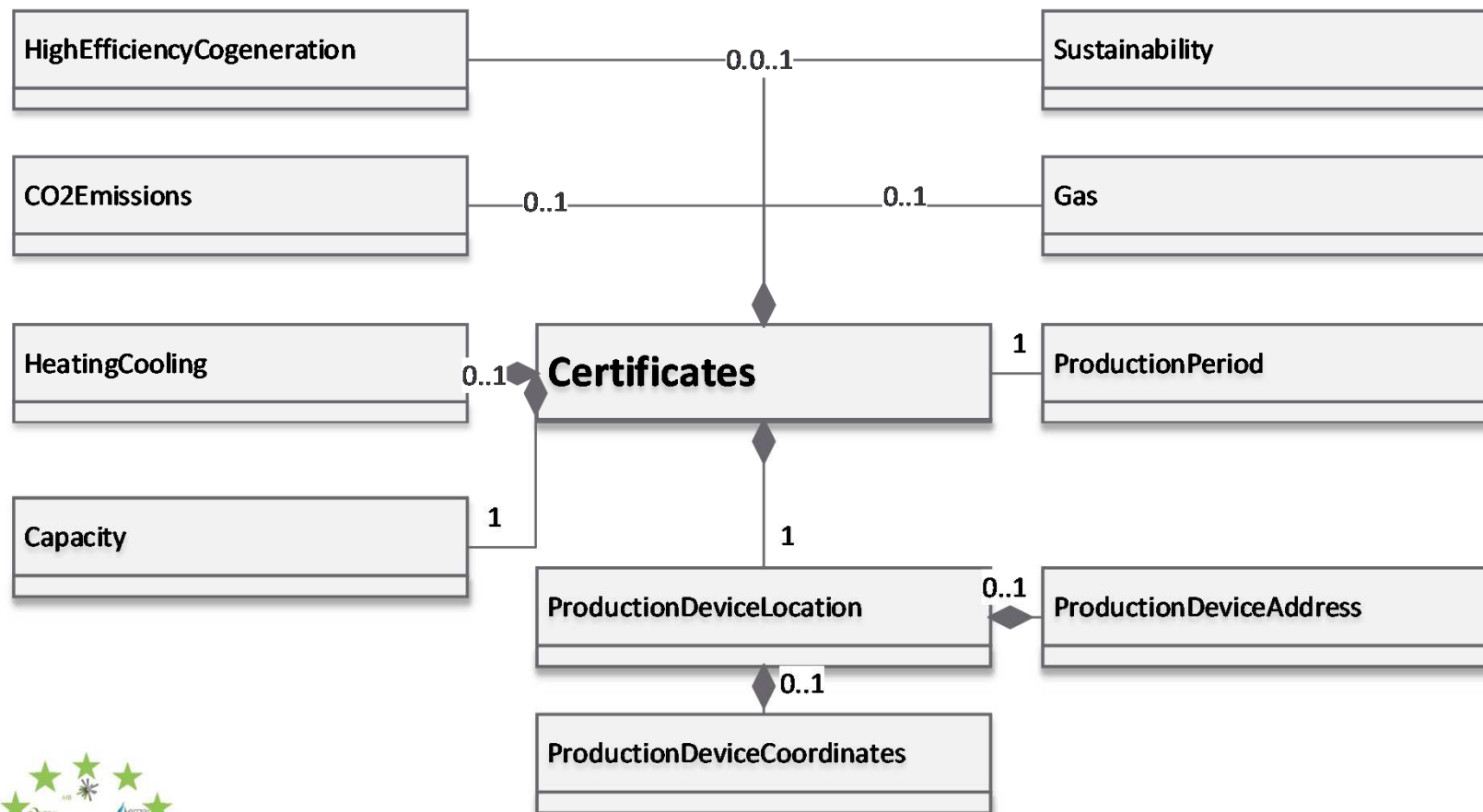
- Frequent drafts and continuous dialogue



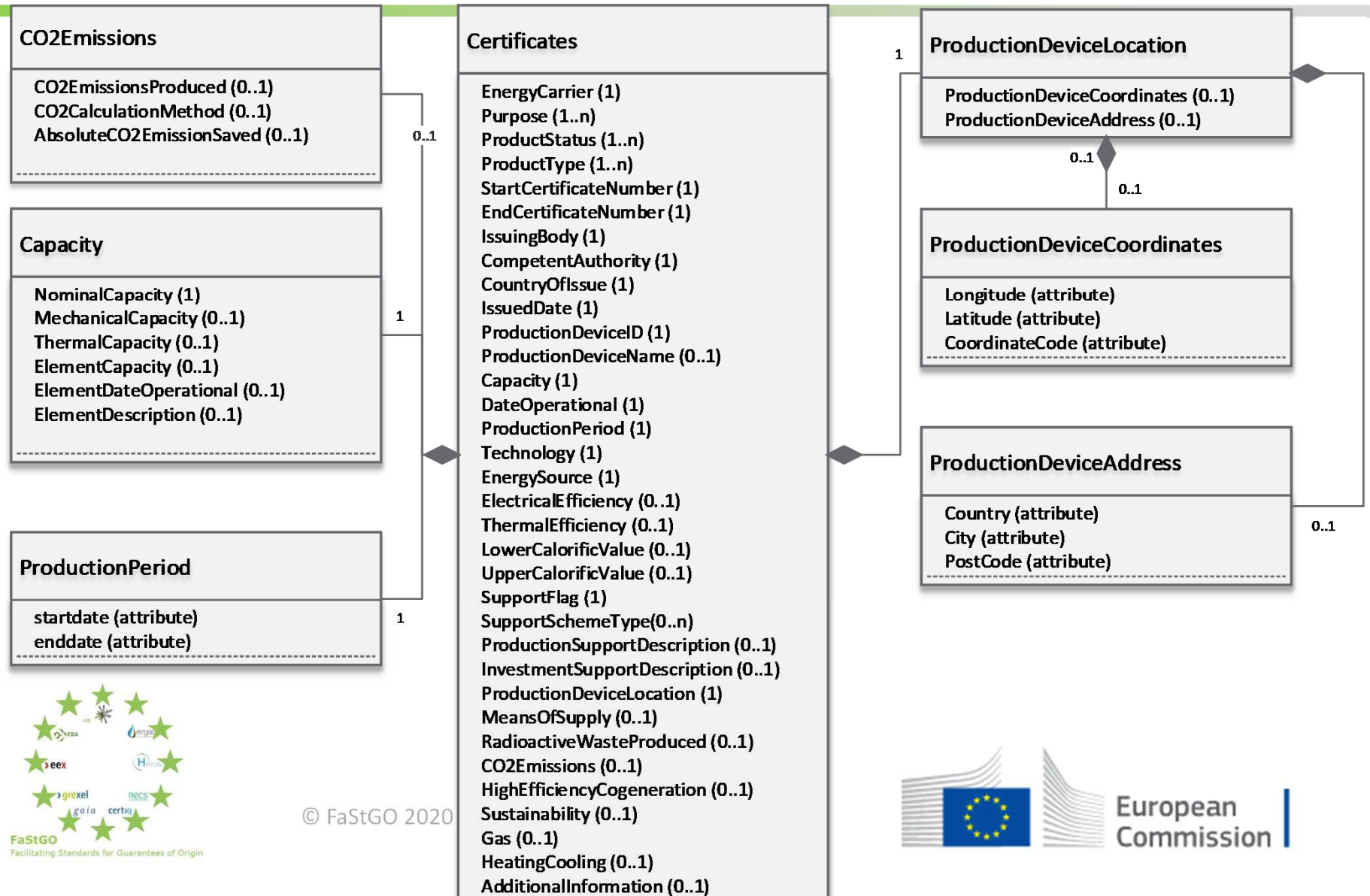
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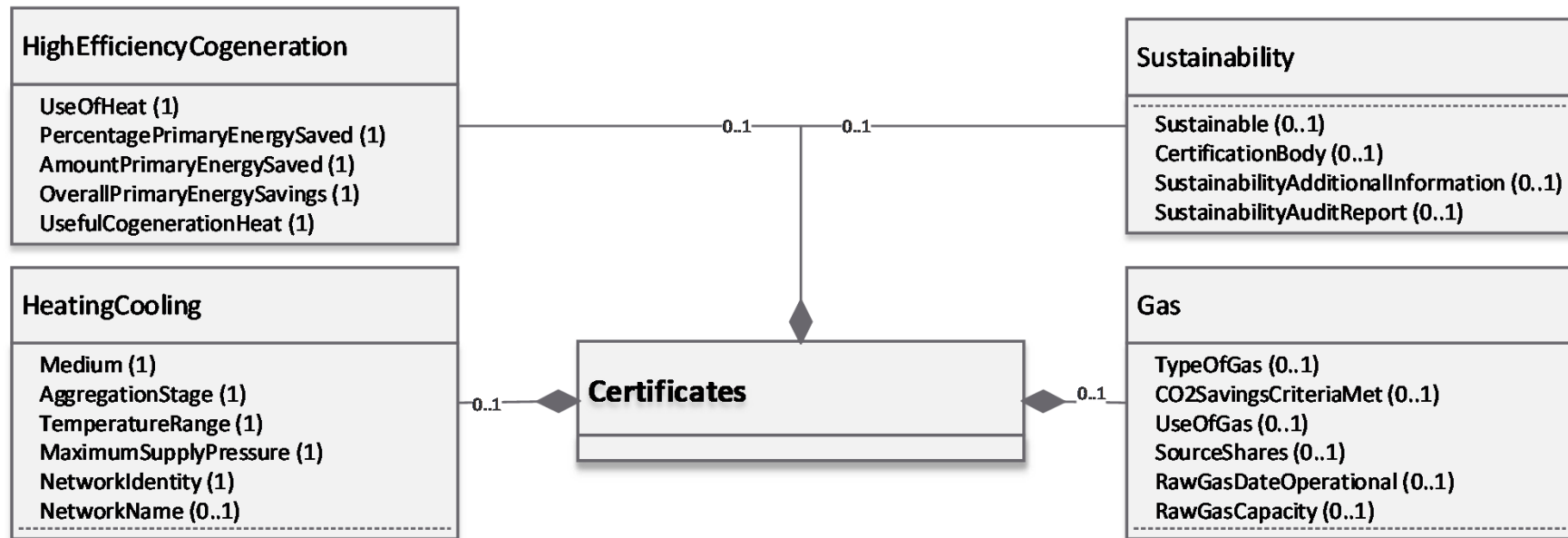
Main Certificate Data Structure



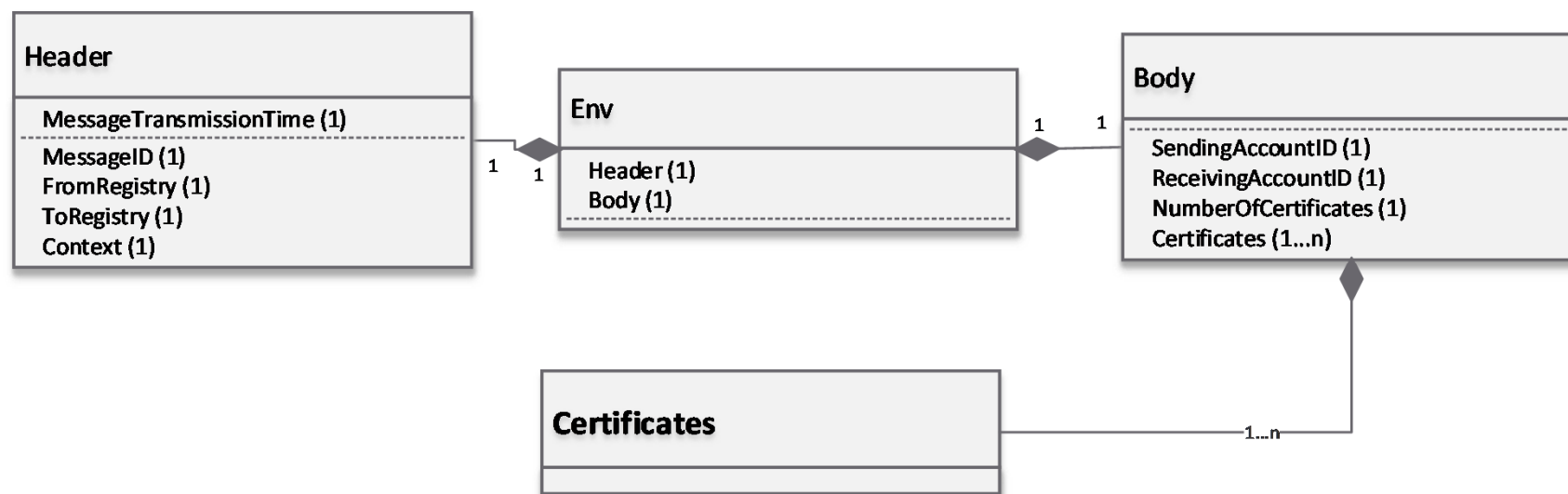
Certificate Data Fields, Common to All



Certificate Data Fields, Specific Certificate Types



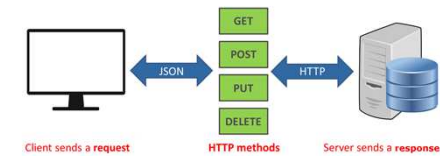
Message and Transport Related Fields



What About JSON, AMQP, ...?

Why XML over JSON?

- XML is more controlled and secure
- XML support name spaces and schemas
- JSON is more efficient, easier to read and it supports arrays



What about transport layer?

- Currently SOAP/Web service is widely supported and understood
- Future might belong to APIs or message queues



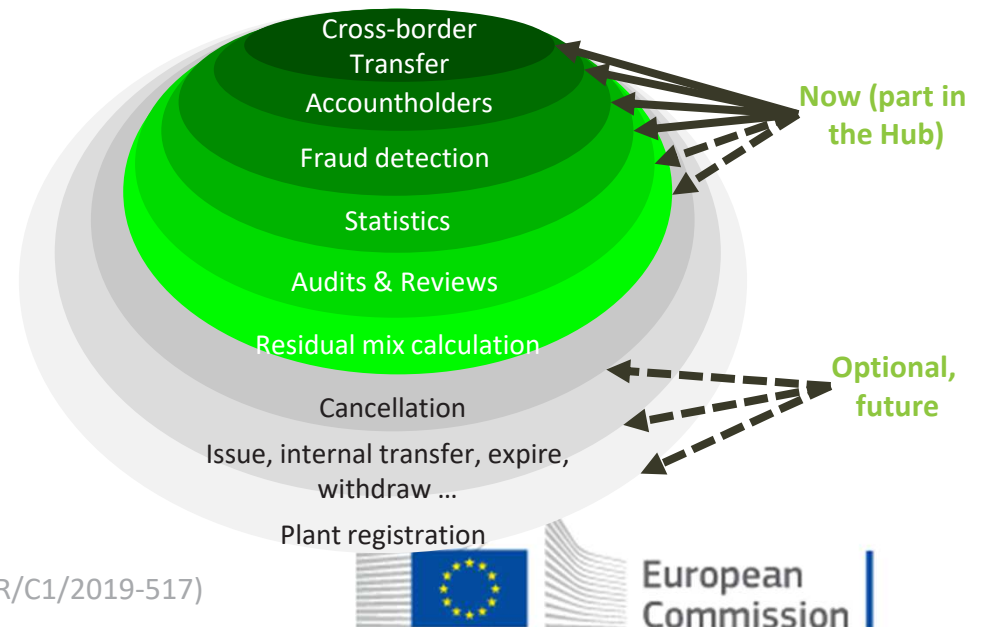
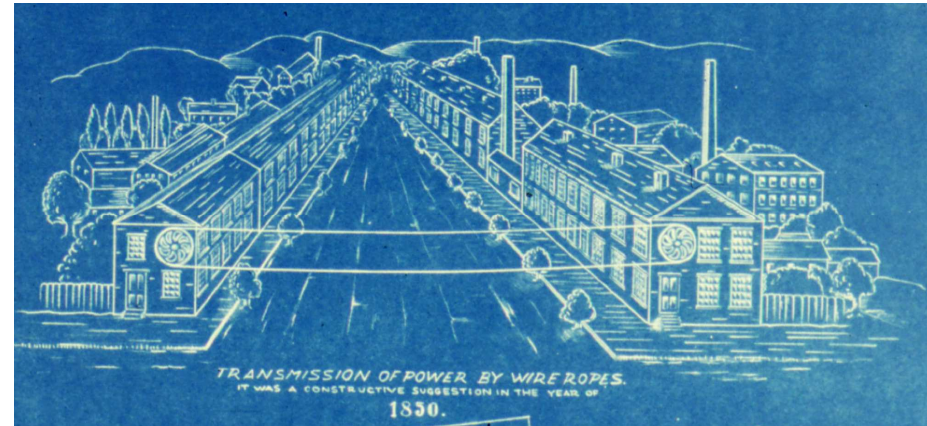
Task 3.3 – High Level System Specification

Based on vision developed as part of task 3.1

- Extension of a hub centric model
 1. Adding „missing layers“
 - Residual mix
 - Centralised cancellation
 2. Technical concept for a multi-domain registry
 - Adding accounts and transactions



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