Quanos

EU Data Act

Register of Data Portability

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Table of contents

1 Overview

This document contains uniformly structured data portability registers in accordance with the EU Data Act (Regulation 2023/2854) for the product portfolio of Quanos Solutions GmbH:

- **Quanos InfoTwin**
- **ST4 Cloud**
- **plusmeta platform**

All products support data portability through standardized export mechanisms and machine-readable formats.

2 Quanos InfoTwin

2.1 Product information

Attribute	Description
Product	Quanos InfoTwin
Manufacturer	Quanos Solutions GmbH

2.2 Exportable data categories

Data category	Description	Export mechanism	Data formats	Extraction – Notes
Product information	Product master data and identifiers, maintained by the customer	GraphQL API	JSON	Typically retrieved by product IDs and related object references
Asset information	Assets/instances and their relationships, including hierarchies	GraphQL API	JSON	Large hierarchies should be retrieved in batches (e.g., by subtree)
Asset options	Configuration and option data associated with assets	GraphQL API	JSON	Depending on the customer product/asset model and configured fields
Mechanics (parts lists)	Mechanical structures, assemblies, and BOM-related data	GraphQL API	JSON	Large structures may require chunked retrieval to avoid timeouts or rate limiting
Article master	Spare parts/article master data and supplemental attributes	GraphQL API	JSON	Typically linked to mechanics and assets via reference identifiers

Documentation	Documentation objects and metadata (e.g., language, versioning, document grouping)	GraphQL API, UI download	JSON, files	Certain document files (e.g., videos, PDFs) can be uploaded to via the admin interface
Files	Uploaded files and media assets (e.g., PDFs, images, 2D/3D assets, ZIP packages)	UI download, GraphQL API (metadata)	Original file formats	Media files for products/articles/parts list entries are typically imported as ZIP packages; 2D models may be provided as SVG, or as SEN + referenced raster graphics (PNG/JPG) based on customer pipelines
Data category configuration / information model	Customer-specific definitions of data categories, fields, and process metadata	GraphQL API, UI download	JSON	Defines which fields and attributes are available per data category
User	User accounts created by customers	GraphQL API	JSON	Exclusively customer users, not internal system users
Roles and permissions	Role definitions and access assignments	GraphQL API	JSON	Customer-defined authorization data
Notes and annotations	User-created notes and annotations	GraphQL API	JSON	Linked to products, assets, or documents

2.3 Non-exportable data categories

The following data categories are excluded because they are specifically required for the internal operation of the service:

- Service operation and runtime data (monitoring, logs, traces)
- Security mechanisms and security operation data

- Aggregated or derived analyses (platform-wide metrics)
- Internal system configuration and non-visible settings that that are not customer-owned

2.4 Export mechanisms and interfaces

GraphQL API

- **Endpoints (tenant-specific):**
  - Consumer API: https://{TENANT-ID}.infotwin.com/graphql
  - Admin API: https://{TENANT-ID}.infotwin.com/graphql/admin
- **Schema introspection endpoints:**
  - Consumer schema: https://{TENANT-ID}.infotwin.com/.schemas/consumer
  - Admin schema: https://{TENANT-ID}.infotwin.com/.schemas/admin
- **Features:** Self-service access, query-based retrieval, schema documentation available via GraphQL introspection, retrieval regulated by tenant roles, permissions, and access filters

UI-based downloads

- Certain digital assets can also be downloaded via the InfoTwin user interface
- Available downloads represent an additional portability mechanism

2.5 Technical considerations and limitations

- **Rate limiting and batching:** API access may be subject to rate limiting to ensure platform stability. Customers should retrieve large amounts of data in appropriate batches.
- **Large structures:** Incremental export (e.g., subtree-based retrieval) is recommended for extensive mechanical or asset hierarchies.
- **Permissions:** Tenant roles, permissions, and access filters apply to API access and determine which data a user can export.

3 ST4 Cloud

3.1 Product information

Attribute	Description
Product	ST4 Cloud / ST4 Cloud Pro
Manufacturer	Quanos Solutions GmbH

3.2 Exportable data categories

SCHEMA ST4

In ST4, data categories are implemented using node classes. Node classes define data classes that are typically classified as metadata classes or content data classes.

Data category	What ST4 stores	Export mechanism	Data formats	Notes
Text	XML content	XML export	XML	–
Resource	Binary content (e.g., graphics, PDF documents)	XML export	XML, binary files	–
Callout	Graphics with SVG overlay	XML export	XML, SVG, binary files	–
Lexicon	Glossary and terminology items	XML export	XML	–
Variant filter	Variant filter definition (for projects)	XML export	XML	–
Document	Document definition (for projects)	XML export	XML	–
Placeholder	Placeholder module (for projects)	XML export	XML	–
Variables	Variable definition in table format, referenced by callout and text modules	XML export	XML	–

Data	Product data such as width, length, etc.	XML export	XML	–
Taxonomy	Taxonomies for use as hierarchical metadata	XML export	XML	–
Layout	Layout definition for print or online	Layout export	XML	–
Schematron rule	Schematron rule and rule sets	XML export	XML	–
Report	Report results from running reports	XML export	XML	–

Structure and management elements

Data category	What ST4 stores	Export mechanism	Data formats	Notes
References	Various links between modules	XML export	XML	–
Folder	Various hierarchical collections	XML export	XML	–
InfoTwin	Hierarchical collection of primarily reused content for publishing to InfoTwin	XML export	XML	–
Group	Collection of various content nodes that define a variant	XML export	XML	–
Project	Hierarchical collection with primarily reused text, variant filters, document definitions, and additional project-specific resources	XML export	XML	–

ST4 Automation

Data category	What ST4 stores	Export mechanism	Data formats	Notes
Workflow models	Definition of workflow models	Workflow model export	XML	Including commands and scheduled workflows

AWS AppStream

Each user is assigned a persistent user profile storage area ("home directory"). Files in this storage are available for download by the respective user via the AWS AppStream interface.

Cloud Author Assistant (provided by Congree)

Data category	What ST4 stores	Export mechanism	Data formats	Notes
Terminology	Terminology items	TBX export	TBX (XML)	–
Terminology data model	Field configuration (field names, field values for picklists, field level)	JSON export	JSON	–

3.3 Non-exportable data categories

The following data categories are excluded:

- Options (common and user-specific)
- GUI workspaces
- Role and rights definitions
- Workflow instances
- Workflow scripts
- System-generated metadata (created at/by, modified at/by)
- System backups
- Customêr-specific fonts (provided during cloud setup)
- Terminology: Configuration, filter, system-generated metadata

3.4 Export formats

- **XML export** – For exporting multiple nodes and subtrees as XML. SCHEMA ST4 creates an XML file and two additional folders (schema and streams). The exported data is validated using XML schemas.
- **Data Model Export** – For exporting the modeling of node and link classes and their respective metadata as an XML file.
- **Workflow Model Export** – For exporting workflow versions or workflow models together with all components as an XML file.
- **Layout Export** – For exporting ST4 layout definitions in XML format.
- **Graphic Export** – For exporting graphics

3.5 Export Strategy

All exportable data is available via the XML export function of the ST4 Power Client, which is available to all users with admin rights in every ST4 Cloud setup. The user must ensure that they have read rights for all content to be exported.

For a comprehensive XML export, you can perform XML export on all ST4 objects in the structure tree in the /ST4 DocuManager/Content/Standard folder or, depending on the database size, split the export by selecting individual subfolders.

4 plusmeta

4.1 Product information

Attribute	Description
Product name	plusmeta platform
Manufacturer	plusmeta GmbH

4.2 Context

plusmeta is an AI-supported platform for the analysis and semantic enrichment of structured and unstructured data formats (PDF, HTML, XML, JPG, etc.). During import, files are created as objects that serve as central processing units. These are processed in workflows on a project basis and enriched with metadata. The knowledge graph can be created manually or expanded by importing classification systems.

4.3 Exportable data categories

Data category	Description	Export mechanism	Data formats	Notes
Source files	Primary input files and media assets	Export in the Objects view	PDF, HTML, XML, JPG, ZIP	Download in the formats in which the resource is available
Knowledge graph	Properties with identifier, data type, metadata list values, language names, synonyms, relationships	Export in Properties View	JSON	Can be exported completely or selectively
Organizations and user settings	Permissions, system integrations, branding	Export in the “Edit Organization” dialog, Permissions export in the Administration view	JSON	–
SAML integration metadata	Login data for SAML integration	XML download of integrations in the	XML	–

		Administration view		
Metadata assignments	Assignments of metadata to objects	CSV export in the "Assign and approve metadata" view	CSV	Exportable per project
Meta metadata	AI method/origin, confidence score, editor, editing time, release status, creator	VDE SPEC 90009 export in the "Assign and approve metadata " view	JSON (VDE SPEC 90009)	Exportable per project
Machine learning models	Custom ML models trained in plusmeta	Export in the "Train AI Model" workflow	.fast (ZIP with JSON model parameters)	–
Similarity analysis results	Results of similarity analysis workflows	Export in workflow “Analyze similarity”	CSV, JSON	–
Configuration objects	Definitions for configuring imports, exports, and AI processes	Export in the Objects view	ZIP with JSON	–
Project results	Transformed or processed data from project workflows	Export in the Objects view	HTML, PDF, iiRDS, VDI 2770 (depending on project configuration)	–
iiRDS packages	Source files and metadata assignments in a standardized package	Result of the workflow “Create iiRDS package”	iiRDS	For data with iiRDS metadata mapping
Project information	Metadata and configuration of a project	Export in the “Edit Project” dialog	JSON	Exportable per project

4.4 Non-exportable data categories

The following data categories are excluded because they are specifically required for internal operations:

- AI process logs (only exportable during session execution)
- Object information (visibility, file type, file size, editor, modification time – unless listed under meta metadata)
- System-generated audit logs and monitoring data

4.5 Export mechanisms and interfaces

REST API:

- The API returns data in JSON format.
- Complete API documentation: https://help.plusmeta.de/api/

UI-based exports:

- Available via various menus and dialogs in the plusmeta user interface
- Supports filtering and selection of subsets

4.6 Typical procedure for data exchange

1. Export the entire knowledge graph or relevant parts
2. For iiRDS compatibility: Create a project based on the "Create iiRDS package" workflow and generate an iiRDS package
3. For additional data:
    a. Export all objects or selection
    b. Download JSON (VDE SPEC 90009) or CSV with metadata assignments per project
    c. If necessary: Export project information, ML models, and other configuration objects