Pre-contractual information for Connected Products acc. Art. 3 No 2 Data Act

Connected Product: Codex Process Control

1. **Type, format and estimated volume of product data**

PLC Codex

a) Type of data: Data of Sensors and Actuators, Data of Entities (Equipment), Data of Phases (operative sequences, data of recipes, information of alarms and warnings, and values of sensors and actuators in primary format.
b) Format of data: PLC data format (bool, byte, word, int, dint, real, char, string, time, date, udint, lint, ULInt, Lreal). Format: zap /. zap13 /. zap14 /. zap15 /. zap16 Packed/exported projects (backup). ap13 /. ap14 /. ap15 /. ap16 /. tiap Open project in TIA Portal. s7p Classic Step 7 projects (Simatic Manager, S7-300/400). RSS PLC projects in RSLogix 500 (MicroLogix, SLC500). RSP Projects in RSLogix 5 (PLC-5). ACD Projects in RSLogix 5000 / Studio 5000 (ControlLogix, CompactLogix).
c) Estimated volume of data: from 20MB to 900MB*

SCADA Codex

a) Type of data: Process Data (Control Modules), Process Data (Entities), Process Data (Phases), Alarm Data, Raw Data of the Control Modules
b) Format of data: Data format (bool, byte, word, int, dint, real, char, string, time, date, udint, lint, ULInt, Lreal). Siemens: .apXX / .tiap Project inside TIA Portal. .mcp Classic WinCC flexible project. .pdl Individual screens (WinCC). .zip Project export/backup. Rockwell Automation:.APA Project backup/export file. . SED Project file opened in SE editor. .CAB Installation/export package in certain cases. . DER Compiled runtime files (depending on version). Ignition Inductive Automation. proj Project export (XML-based file, contains project resources).zip Full project package export (includes screens, tags, scripts, etc.). .idb / Gateway backup (.gwbk) Full gateway backup file (includes projects, tags, security, and configurations). .json Tag or resource export/import files. AVEVA System Platform .aaPKG ArchestrA object package (export of templates, objects, graphics). .cab Backup/export of Galaxy repository. .xml → Export of individual configurations/objects. .intouchapp Modern InTouch application file (packaged project). .app / .apr / .aaApp Older InTouch application formats.bak Backup files of projects or configuration databases. .wwpkg Package file for Wonderware/AVEVA OMI screens and layouts.
c) Estimated volume of data: 200MB-2GB*

HMI Codex

a) Type of data: Process Data (Control Modules), Process Data (Entities), Process Data (Phases), Alarm Data, Raw Data of the Control Modules
b) Format of data: Data format (bool, byte, word, int, dint, real, char, string, time, date, udint, lint, ULInt, Lreal). .zip / .apXX (ap13, ap14, ap15, ap16, tiap) Projects in TIA Portal. .fwx Transfer files to panel (firmware + compiled project). hmi (in older versions of WinCC flexible). .APA Packaged application file (backup/restore). MED Project file opened in the editor. .MER Compiled runtime file for execution on PanelView Plus. Ignition Inductive Automation. proj Project export (XML-based file, contains project resources).zip Full project package export (includes screens, tags, scripts, etc.). .idb / Gateway backup (.gwbk) Full gateway backup file (includes projects, tags, security, and configurations). .json Tag or resource export/import files. AVEVA System Platform .intouchapp (modern packaged InTouch app). .app / .apr / .aaApp (legacy InTouch apps).wwpkg (OMI layouts/screens).
c) Estimated volume of data: 10MB-800MB*

Codex SCADA-Operation Station Computer or Virtual Machine or Server

a) Type of data: Process Data (Control Modules), Process Data (Entities), Process Data (Phases), Alarm Data.

* total volume at any given moment for an average factory
Status as of 12.09.2025

b) Format of data: Data format (bool, byte, word, int, dint, real, char, string, time, date, udint, lint, ULInt, Lreal). PC .ISO, .IMG, .DMG, .WIM. Virtual Machine. VMDK, VMX, OVA/.OVF, .VHD/.VHDX, .XML, .VHDX.
c) Estimated volume of data: 20GB-200GB*

SQL Cfg - Operation Station Computer or Virtual Machine or Server

a) Types of data: Control Modules Texts, Entities Texts, Phases Texts, Alarm Texts and Raw Ranges of the Control Modules
b) Format of data: Data format (bool, byte, word, int, dint, real, char, string, time, date, udint, lint, ULInt, Lreal). SQL. .bak
c) Estimated volume of data: 10MB, 500MB*

2. Continuous and real-time data generation

PLC-Codex; SCADA Codex; HMI Codex; Codex SCADA-Operation Station Computer or Virtual Machine or Server

Real-time data generation: Yes, it can generate data continuously and in real time.

SQL Cfg - Operation Station Computer or Virtual Machine or Server

Real-time data generation: No, texts are shown as static list.

3. Storage of data

PLC Codex

a) Storage on device:
Yes, the data can be stored on the asset memory.
b) Storage on server:
Yes, the data can also be stored on a remote server.
c) Intended storage period (if applicable):
No max storage period

SCADA Codex

a) Storage on device:
Yes, the data can be stored on the asset memory.
b) Storage on server:
Yes, the data can also be stored on a remote server.
c) Intended storage period (if applicable):
No max storage period

HMI Codex

a) Storage on device:
Yes, the data can be stored on the asset memory.
b) Storage on server:
Yes, the data can also be stored on a remote server.
c) Intended storage period (if applicable):
No max storage period

Codex SCADA-Operation Station Computer or Virtual Machine or Server

a) Storage on device:
Yes, the data can be stored on the asset memory.
b) Storage on server:
Yes, the data can also be stored on a remote server.
c) Intended storage period (if applicable):

No max storage period

SQL Cfg - Operation Station Computer or Virtual Machine or Server

a) Storage on device:
Yes, the data can be stored on the asset memory.
b) Storage on server:
Yes, the data can also be stored on a remote server.
c) Intended storage period (if applicable):
No max storage period

4. **Access, retrieval and erasure of data**

PLC Codex

Access and retrieval: The user can access and retrieve the data via technology-specific software. The interfaces provide a user-friendly environment for data visualization and analysis. Siemens TIA Portal Step 7 (https://www.siemens.com/ar/en/productos/automatizacion/software-industrial/tia-portal.html) Allen - Bradley RS Logix 5000 or Studio 5000 (https://www.rockwellautomation.com/en-us/products/software/factorytalk/designsuite/studio-5000.html)
Erasure of data: The user can erase data via the web interface or the mobile app. The erasure is immediate and irreversible. Siemens TIA Portal Step 7 (https://www.siemens.com/ar/en/productos/automatizacion/software-industrial/tia-portal.html) Allen - Bradley RS Logix 5000 or Studio 5000 (https://www.rockwellautomation.com/en-us/products/software/factorytalk/designsuite/studio-5000.html)
Technical means: The interface uses industrial protocols for communication Profibus - Profinet - Ethernet IP - OPC UA/DA - Modbus - MQTT

SCADA Codex

Access and retrieval: The user can access and retrieve the data via technology-specific software. The interfaces provide a user-friendly environment for data visualization and analysis. WinCC (Siemens https://www.siemens.com/global/en/products/automation/industry-software/automation-software/tia-portal/software/simatic-wincc-tia-portal.html) FactoryTalk Site (Rockwell: https://www.rockwellautomation.com/en-us/products/software/factorytalk/design-studio.html), Ignition (https://www.docs.inductiveautomation.com/docs/8.1/platform/gateway), System Platform (AVEVA https://www.aveva.com/en/solutions/)
Erasure of data: The user can erase data via the web interface or the mobile app. The erasure is immediate and irreversible. WinCC (Siemens https://www.siemens.com/global/en/products/automation/industry-software/automation-software/tia-portal/software/simatic-wincc-tia-portal.html) FactoryTalk Site (Rockwell: https://www.rockwellautomation.com/en-us/products/software/factorytalk/design-studio.html), Ignition (https://www.docs.inductiveautomation.com/docs/8.1/platform/gateway), System Platform (AVEVA https://www.aveva.com/en/solutions/)
Technical means: The interface uses industrial protocols for communication OPC UA / OPC DA - MQTT - RDP - VPN - SQL Connection

HMI Codex

Access and retrieval: The user can access and retrieve the data via technology-specific software. The interfaces provide a user-friendly environment for data visualization and analysis. HMI (Siemens https://www.siemens.com/global/en/products/automation/industry-software/automation-software/tia-portal/software/simatic-wincc-tia-portal.html),
Erasure of data: The user can erase data via the web interface or the mobile app. The erasure is immediate and irreversible. HMI (Siemens https://www.siemens.com/global/en/products/automation/industry-software/automation-

software/tia-portal/software/simatic-wincc-tia-portal.html), FactoryTalk ME (Rockwell: https://www.rockwellautomation.com/en-us/products/software/factorytalk/operationsuite/view.html)
Technical means: The interface uses industrial protocols for communication OPC UA / OPC DA - MQTT - RDP - VPN - SQL Connection

Codex SCADA-Operation Station Computer or Virtual Machine or Server

Access and retrieval: The user can access and retrieve the data via technology-specific software. The interfaces provide a user-friendly environment for data visualization and analysis. WinCC (Siemens https://www.siemens.com/global/en/products/automation/industry-software/automation-software/tia-portal/software/simatic-wincc-tia-portal.html), FactoryTalk Site (Rockwell: https://www.rockwellautomation.com/en-us/products/software/factorytalk/design-studio.html), Ignition (https://www.docs.inductiveautomation.com/docs/8.1/platform/gateway), System Platform (AVEVA https://www.aveva.com/en/solutions/)
Erasure of data: The user can erase data via the web interface or the mobile app. The erasure is immediate and irreversible. WinCC (Siemens https://www.siemens.com/global/en/products/automation/industry-software/automation-software/tia-portal/software/simatic-wincc-tia-portal.html), FactoryTalk Site (Rockwell: https://www.rockwellautomation.com/en-us/products/software/factorytalk/design-studio.html), Ignition (https://www.docs.inductiveautomation.com/docs/8.1/platform/gateway), System Platform (AVEVA https://www.aveva.com/en/solutions/)
Technical means: The interface uses industrial protocols for communication Remote Desktop Protocol. Network protocols

SQL Cfg - Operation Station Computer or Virtual Machine or Server

Access and retrieval: The user can access and retrieve the data via technology-specific software Microsoft SQL. The interfaces provide a user-friendly environment for data visualization and analysis. Microsoft SQL (https://learn.microsoft.com/en-us/sql/relational-databases/system-dynamic-management-views/sys-dm-exec-connections-transact-sql?view=sql-server-ver17)
Erasure of data: The user can erase data via the web interface or the mobile app. The erasure is immediate and irreversible. The interfaces provide a user-friendly environment for data visualization and analysis. Microsoft SQL (https://learn.microsoft.com/en-us/sql/relational-databases/system-dynamic-management-views/sys-dm-exec-connections-transact-sql?view=sql-server-ver17)
Technical means: The interface uses SQL Connection

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Further information:

The detailed terms of use are described in the “Agreement on Data access and use between GEA and Customers of connected products and related services” and can be viewed on GEA Portal.