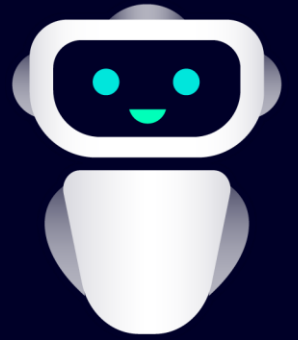


Engineering Copilot TIA

Your generative AI-powered assistant



Industrial Copilots will support humans along the **industrial value chain**



Design

Break new ground
in creativity

Planning

Plan more efficiently
than ever before

Engineering

Engineering without
repetitive tasks

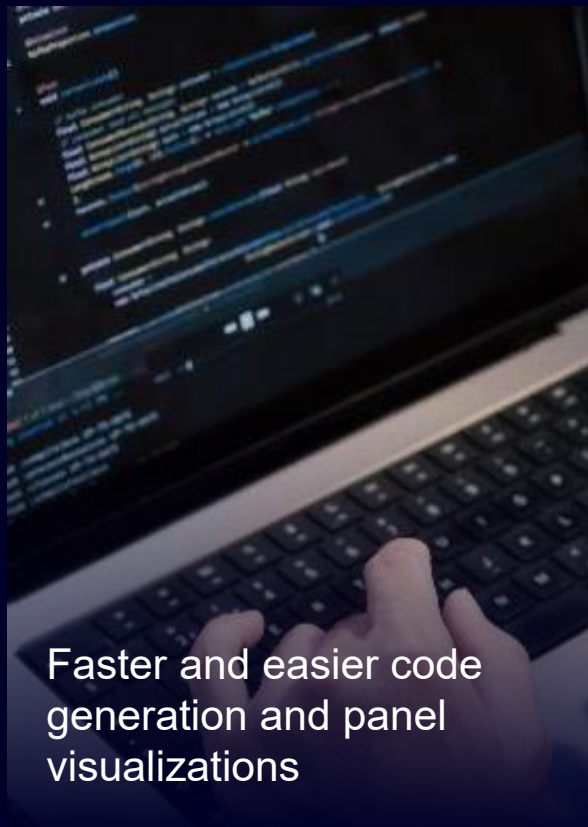
Operations

Transparency at
your fingertips

Services

Know it all –
before it happens

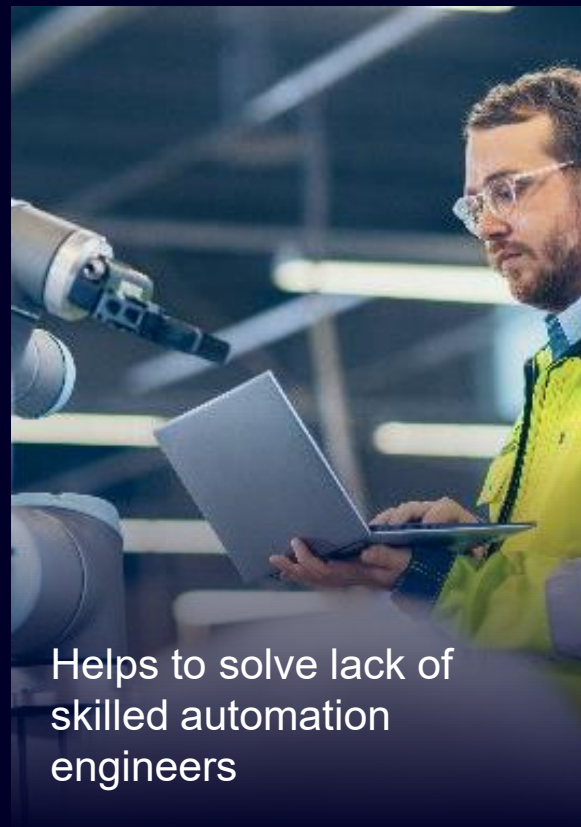
Benefits



Faster and easier code generation and panel visualizations



Boost productivity and quality over the long-term



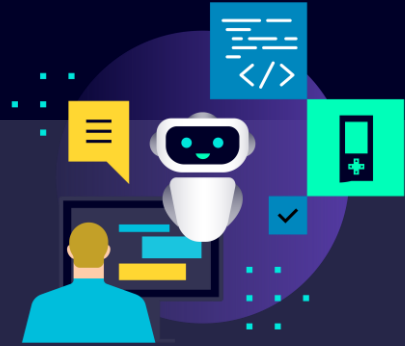
Helps to solve lack of skilled automation engineers



Reduced programming effort and development times

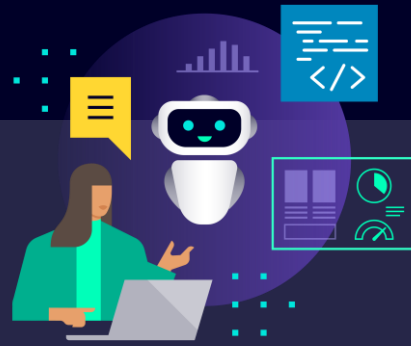
Engineering Copilot TIA

What can I do with it? Some Examples...



SCL Code Generation for PLCs

No more tedious manual programming: Create SCL Code, Test Code, Document Code within seconds.



JavaScript Creation for WinCC Unified

Bring your WinCC Unified HMI to life: effortless creation & integration of JavaScript and smooth migration of your classic VBScripts.



Project Creation & Configuration

Hardware Creation: Automatic device configuration using Excel and prompting.

Creating PLC Project structure based on a given automation standard, e.g. SICAR.

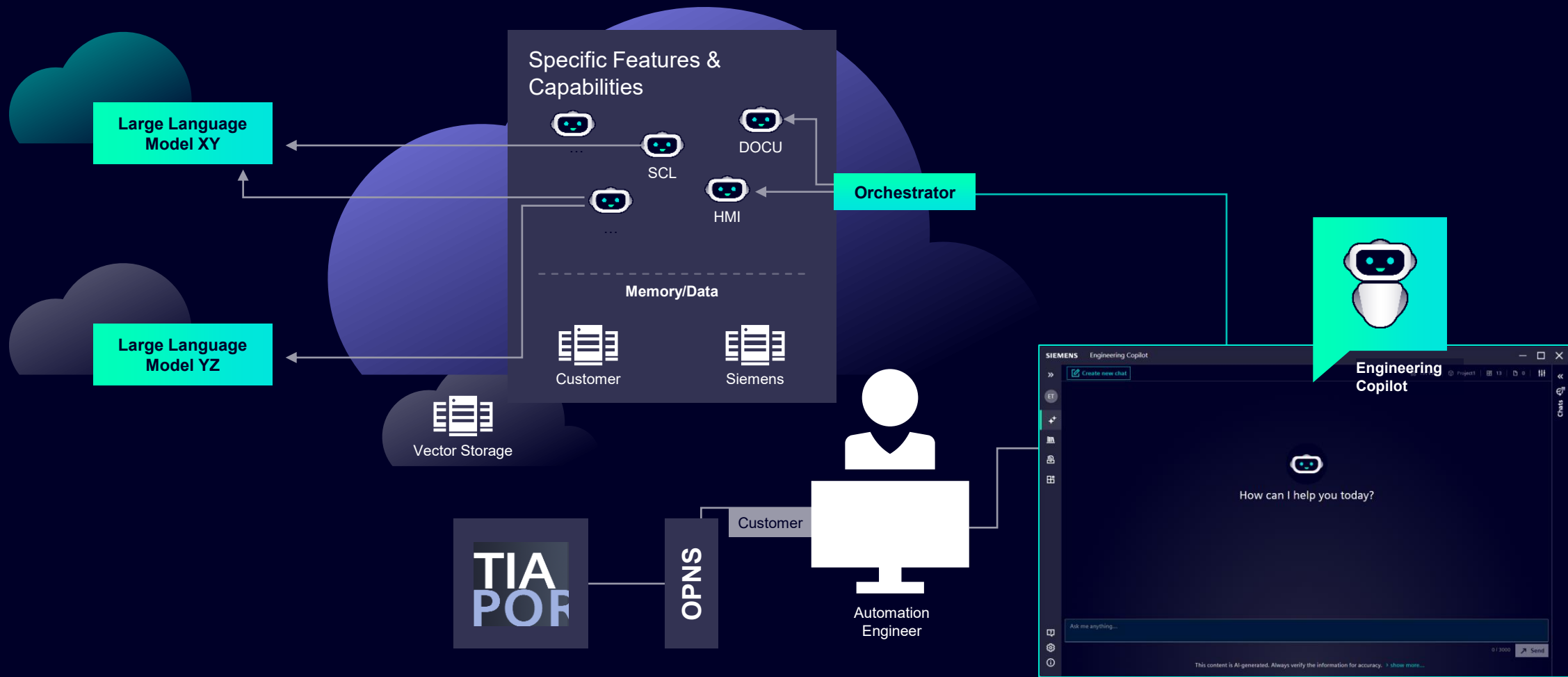


TIA Portal guidance and support

Quick responses to questions in the context of TIA Portal Engineering or code explanation (e.g. of existing projects) for enhanced understanding.

Engineering Copilot TIA

How it works ...



At Siemens, we turn AI into industrial-grade AI solutions

Robust, democratized and with purpose

Robust

Ensuring AI is reliable, trustworthy, and secure, and meets the most stringent industrial standards



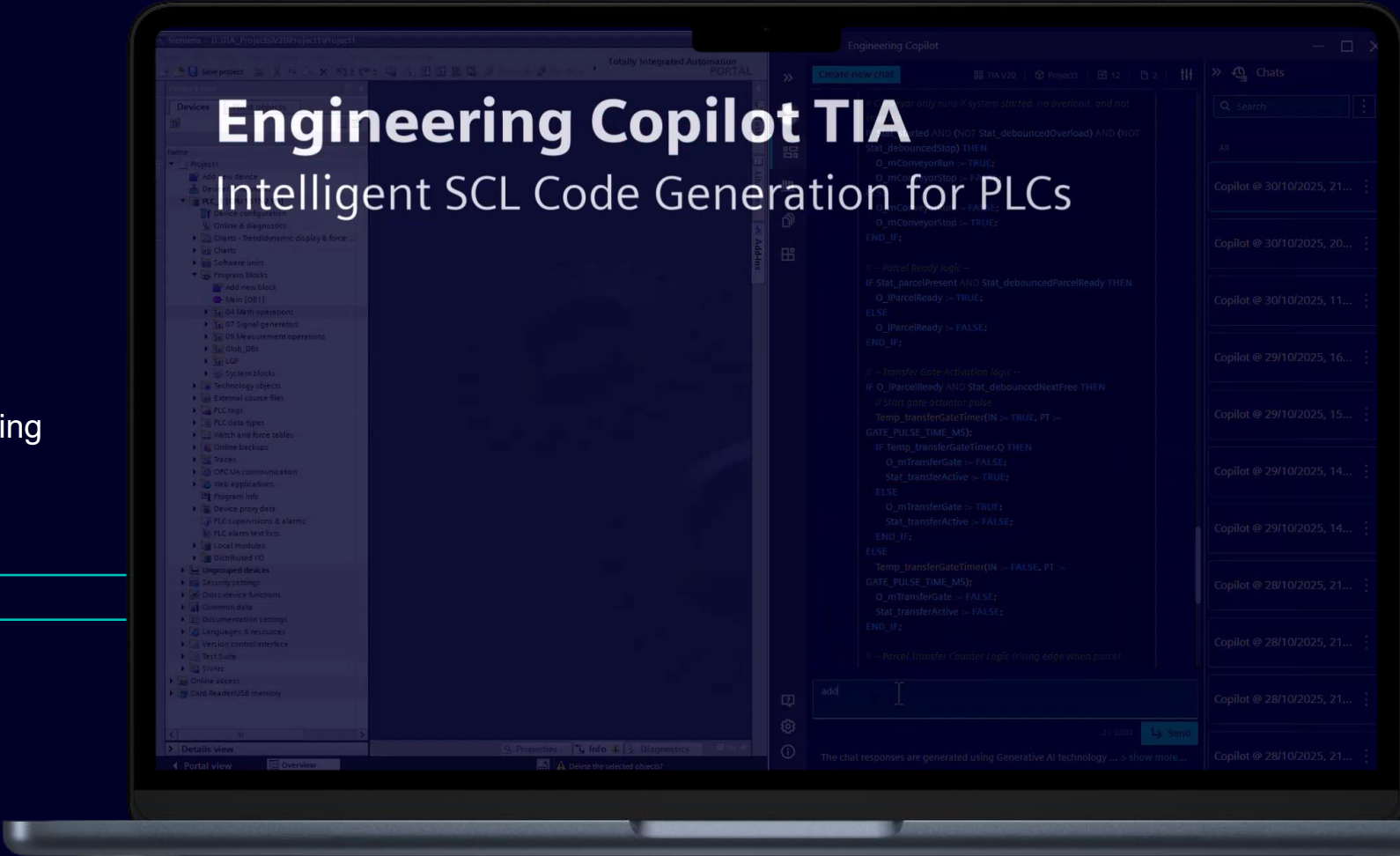
Data security of Engineering Copilot TIA

- The Engineering Copilot TIA is **tailored for professional use in industrial environments**, ensuring that your data is handled securely and in accordance with industry standards.
- Siemens will not persist customer input data in the cloud, only process customer input in the Engineering Copilot to answer the questions of the user.

Engineering Copilot TIA

Code Creation: SCL Code in Seconds

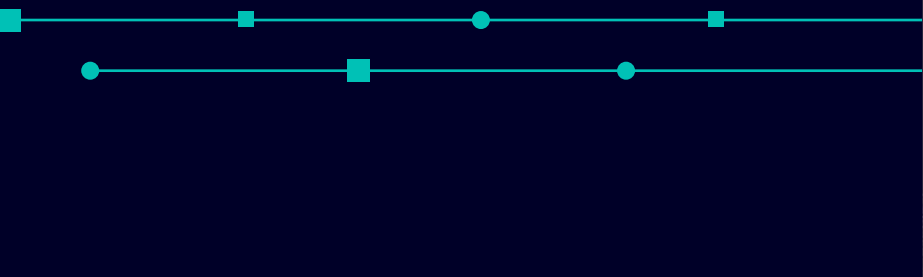
- No need to be proficient in SCL
- Focus on other priorities by letting the Engineering Copilot TIA handle routine coding



Engineering Copilot TIA

Code Creation: SCL Code in Seconds

- No need to be proficient in SCL
- Focus on other priorities by letting the Engineering Copilot TIA handle routine coding



Documents

Filter documents by

Upload

4 documents

Name	uploaded	type
Device_List.xlsx	30/10/2025, 20:46:11	.xlsx
<input checked="" type="checkbox"/> Style_guide_Company_A.pdf	30/10/2025, 20:46:25	.pdf
<input checked="" type="checkbox"/> Functional Description for a conveyor system.pdf	30/10/2025, 20:46:32	.pdf
<input type="checkbox"/> PLC_MES_Communication.pdf	30/10/2025, 20:46:38	.pdf

+ Add to chat

Delete

Add to all Chats

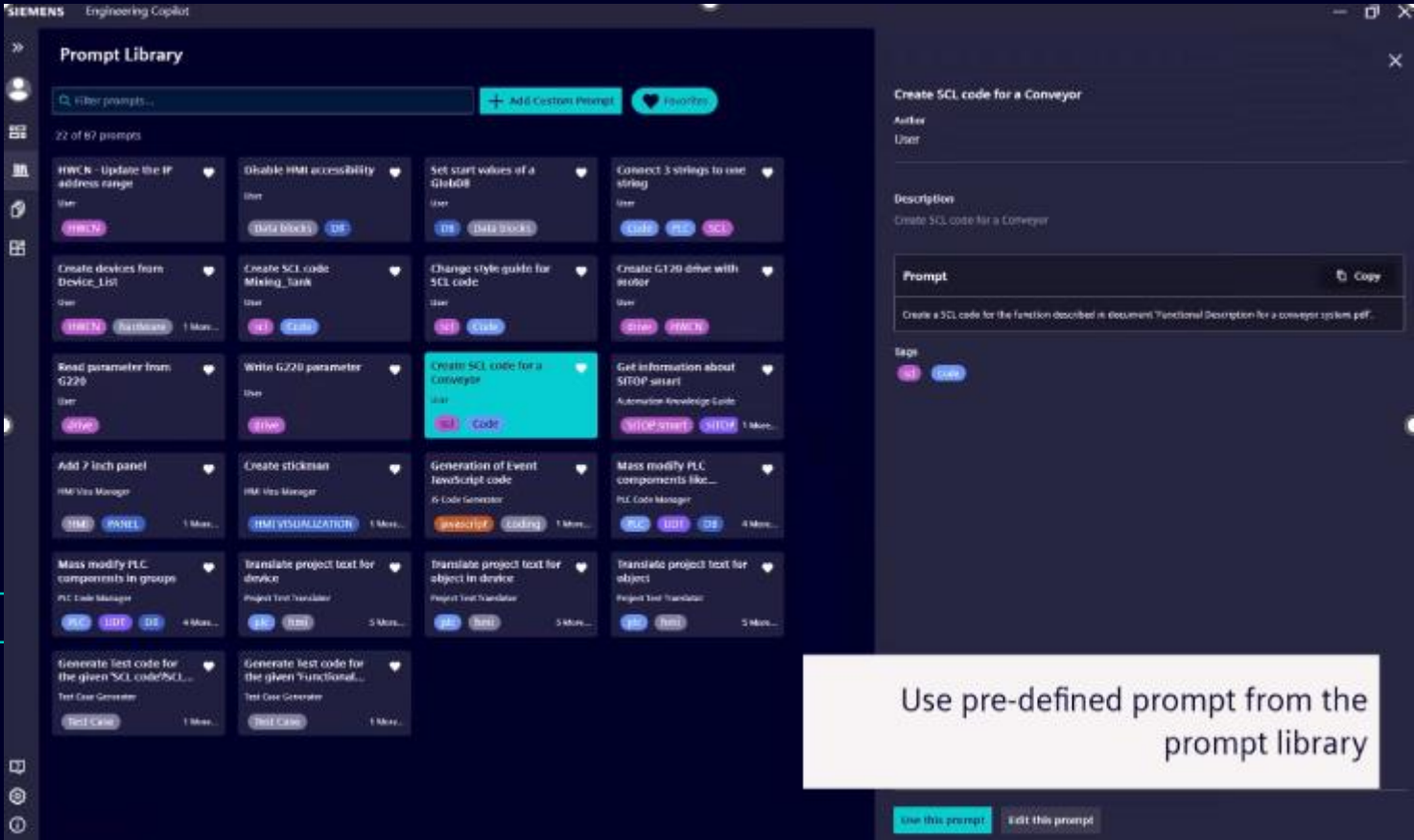
- Copilot @ 30/10/2025, 21:14:45
- Copilot @ 30/10/2025, 20:19:28
- Copilot @ 30/10/2025, 11:08:05
- Copilot @ 29/10/2025, 16:29:19
- Copilot @ 29/10/2025, 15:28:43
- Copilot @ 29/10/2025, 14:27:22
- Copilot @ 29/10/2025, 14:13:09
- Copilot @ 28/10/2025, 21:46:09
- Copilot @ 28/10/2025, 21:44:41
- Copilot @ 28/10/2025, 21:41:55
- Copilot @ 28/10/2025, 21:26:40

Connect uploaded styleguide with the chat

Engineering Copilot TIA

Code Creation: SCL Code in Seconds

- No need to be proficient in SCL
- Focus on other priorities by letting the Engineering Copilot TIA handle routine coding



Use pre-defined prompt from the prompt library

Engineering Copilot TIA

Code Creation: SCL Code in Seconds

- No need to be proficient in SCL
- Focus on other priorities by letting the Engineering Copilot TIA handle routine coding



The screenshot displays the Siemens Engineering Copilot TIA interface. On the left, a project tree shows a PLC project with various components like 'Add new device', 'Device configuration', and 'Program blocks'. The main workspace shows a ladder logic diagram with a blue background and a gear icon. A text box at the bottom of the workspace reads: 'Import the code block into your TIA portal project'. On the right, the 'Engineering Copilot' chat window is open, showing a list of chat messages and a search bar. The chat messages include:

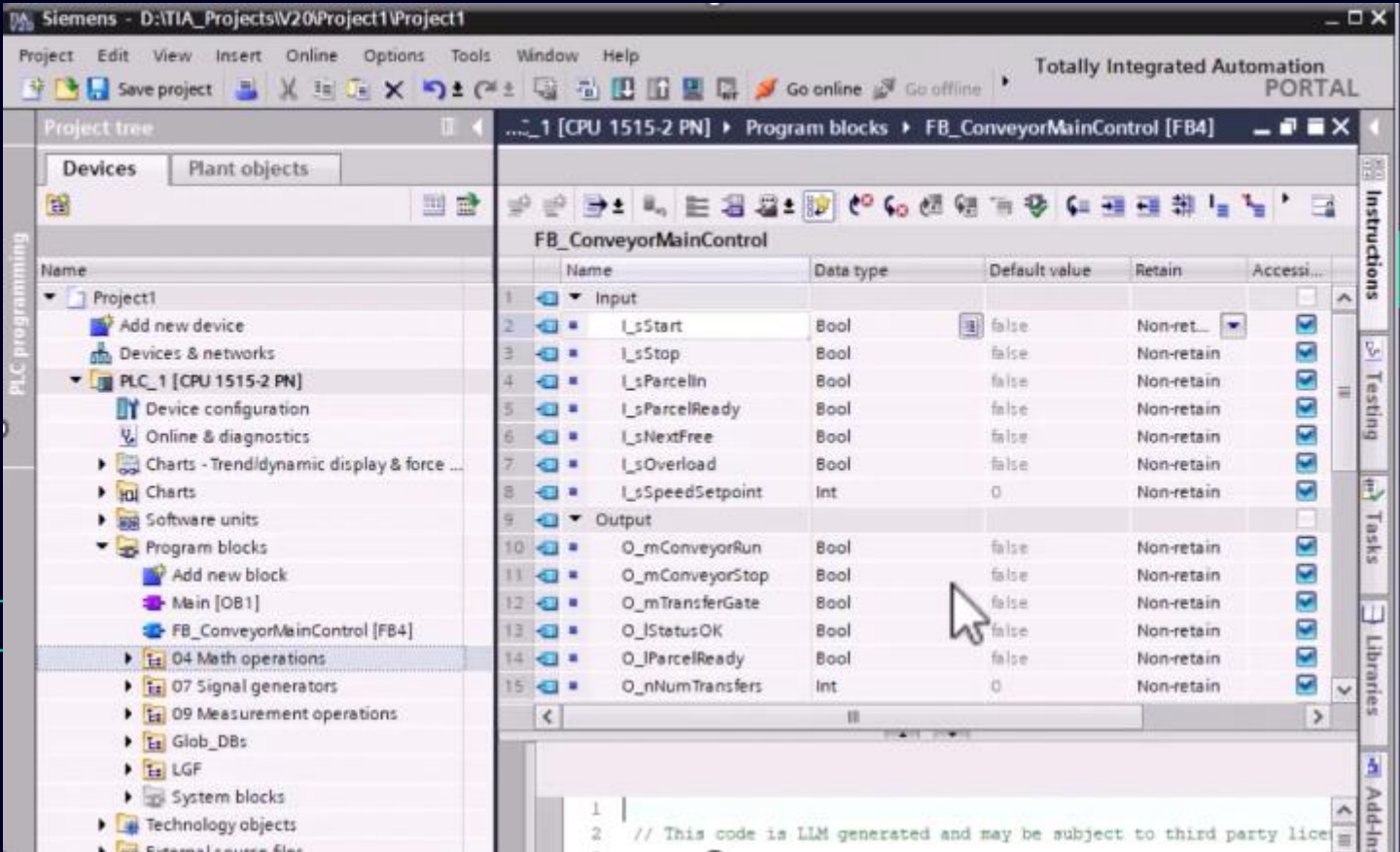
- Copilot @ 30/10/2025, 21...
- Copilot @ 30/10/2025, 20...
- Copilot @ 30/10/2025, 11...
- Copilot @ 29/10/2025, 16...
- Copilot @ 29/10/2025, 15...
- Copilot @ 29/10/2025, 14...
- Copilot @ 29/10/2025, 14...
- Copilot @ 28/10/2025, 21...
- Copilot @ 28/10/2025, 21...
- Copilot @ 28/10/2025, 21...
- Copilot @ 28/10/2025, 21...

The chat window also shows a search bar and a 'Send' button. The bottom of the chat window displays the text: 'The chat responses are generated using Generative AI technology ... > show more ...'.

Engineering Copilot TIA

Code Creation: SCL Code in Seconds

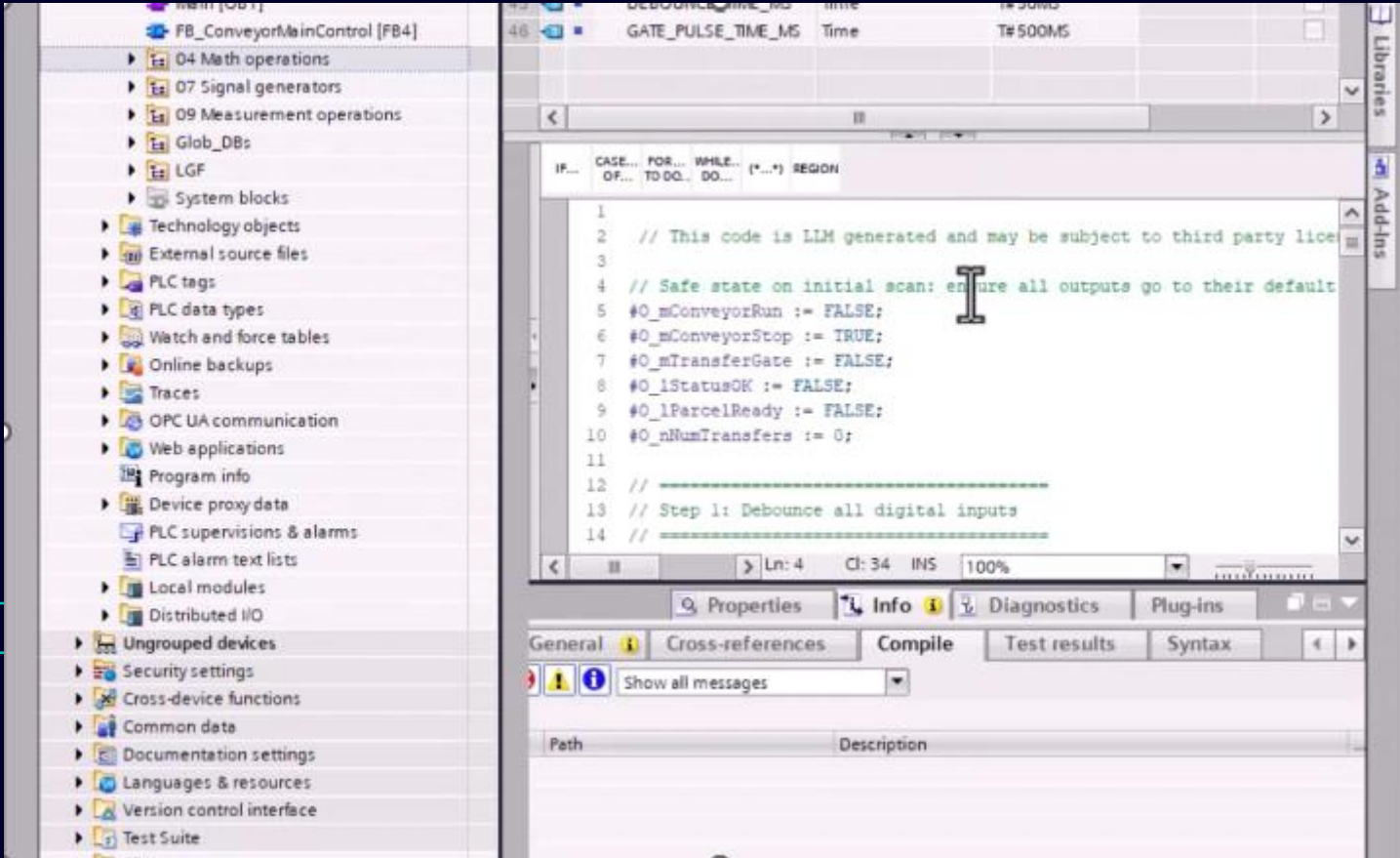
- No need to be proficient in SCL
- Focus on other priorities by letting the Engineering Copilot TIA handle routine coding



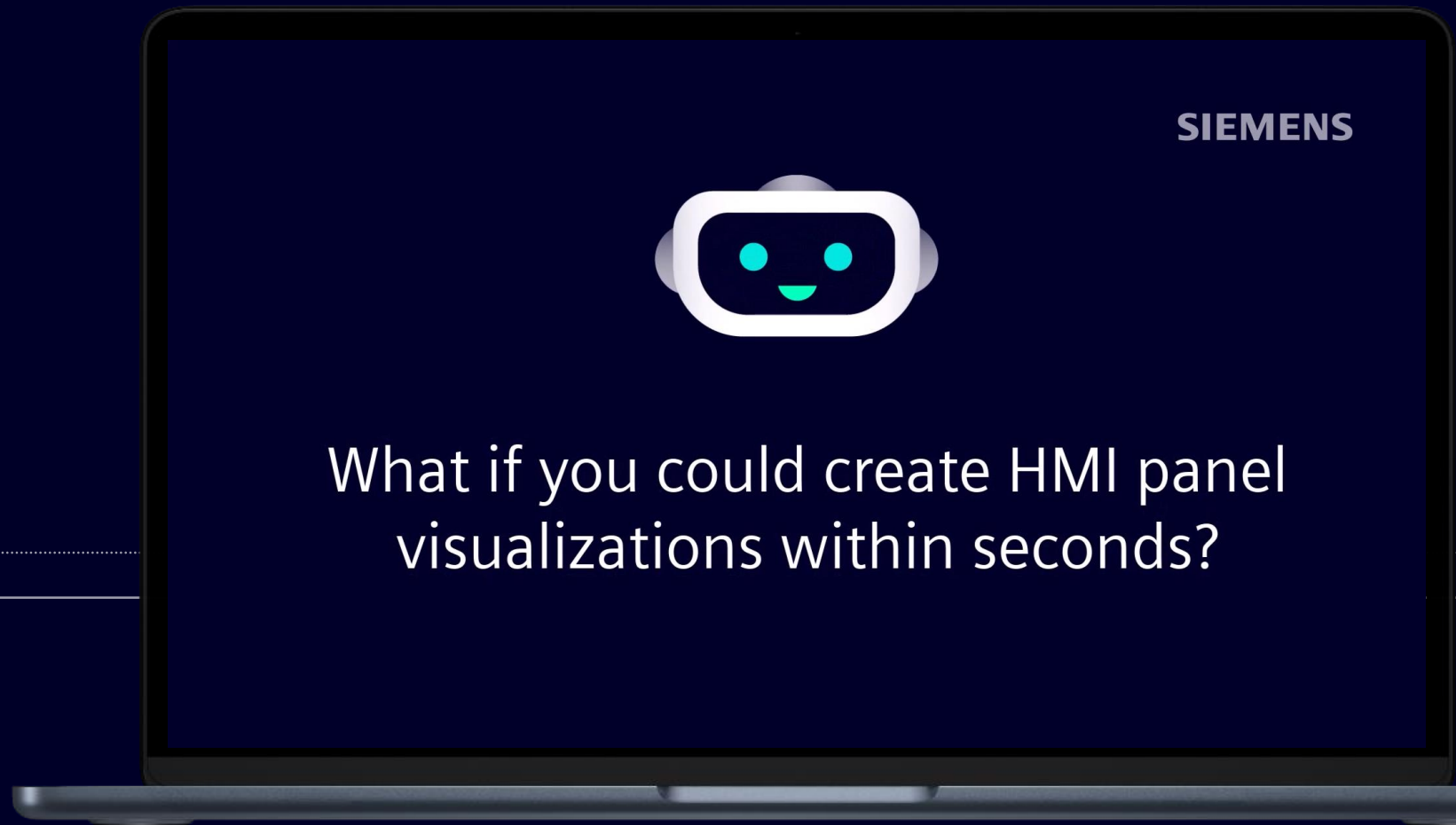
Engineering Copilot TIA

Code Creation: SCL Code in Seconds

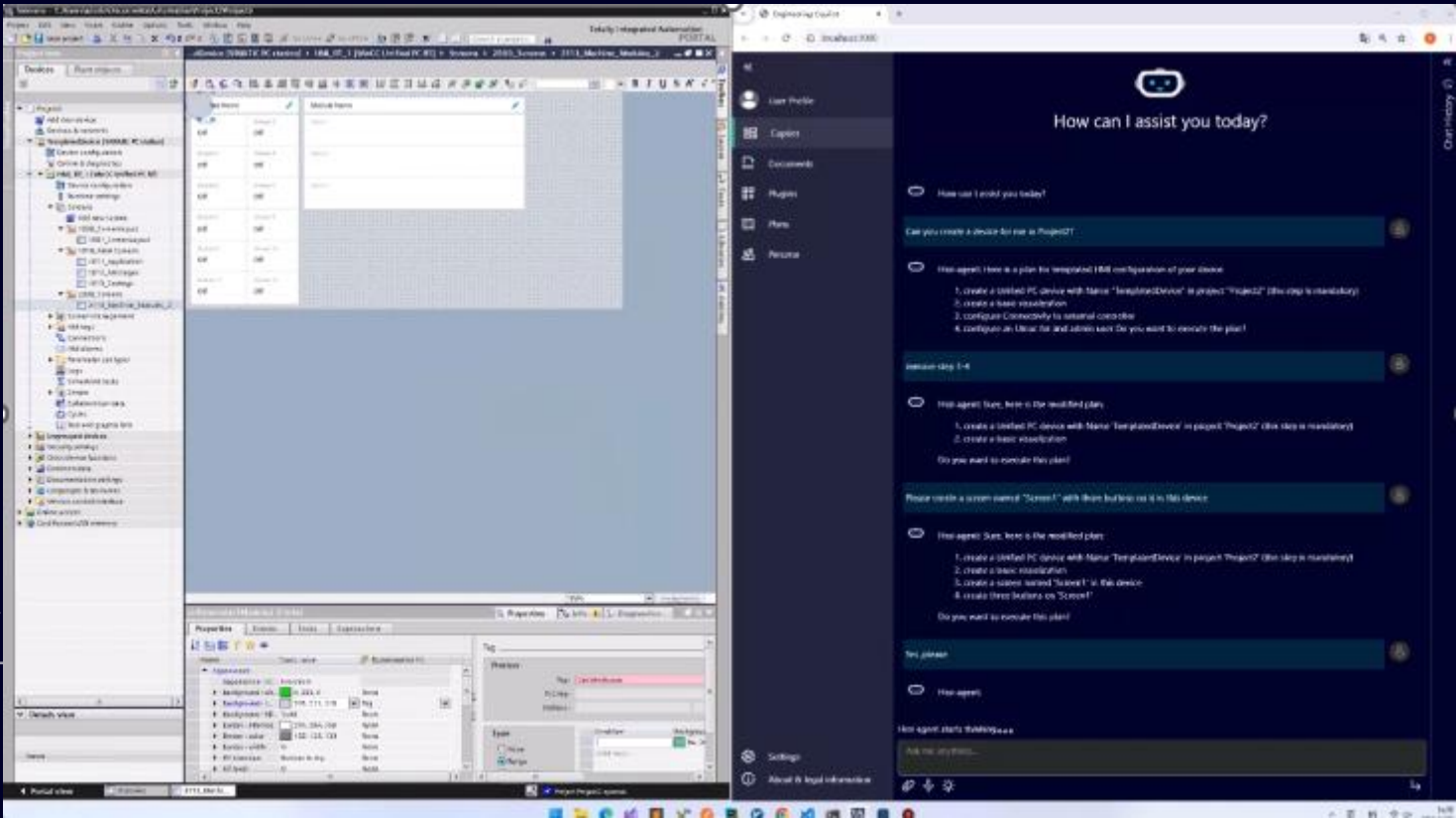
- No need to be proficient in SCL
- Focus on other priorities by letting the Engineering Copilot TIA handle routine coding



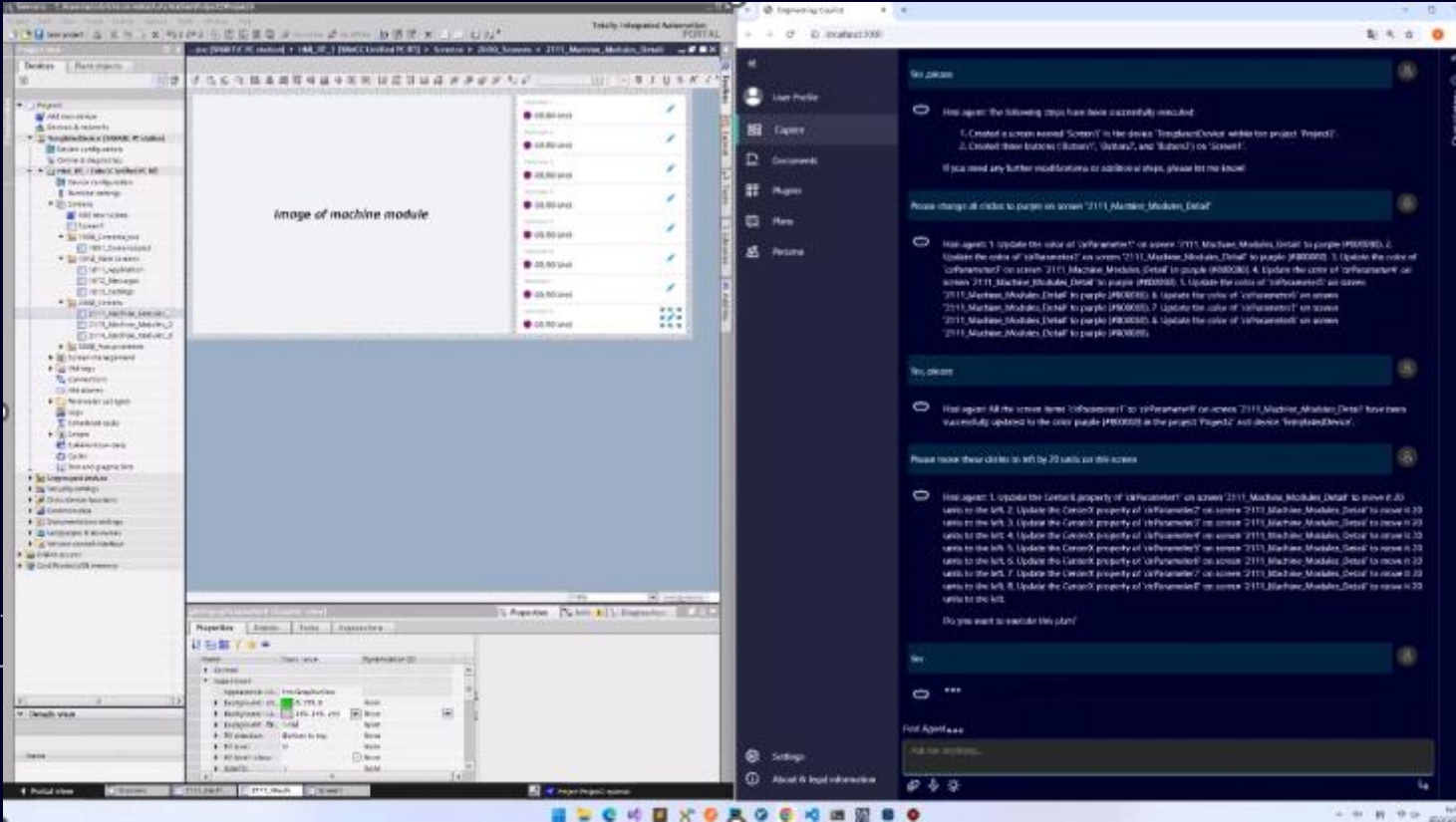
HMI Engineering Generating WinCC Unified HMI



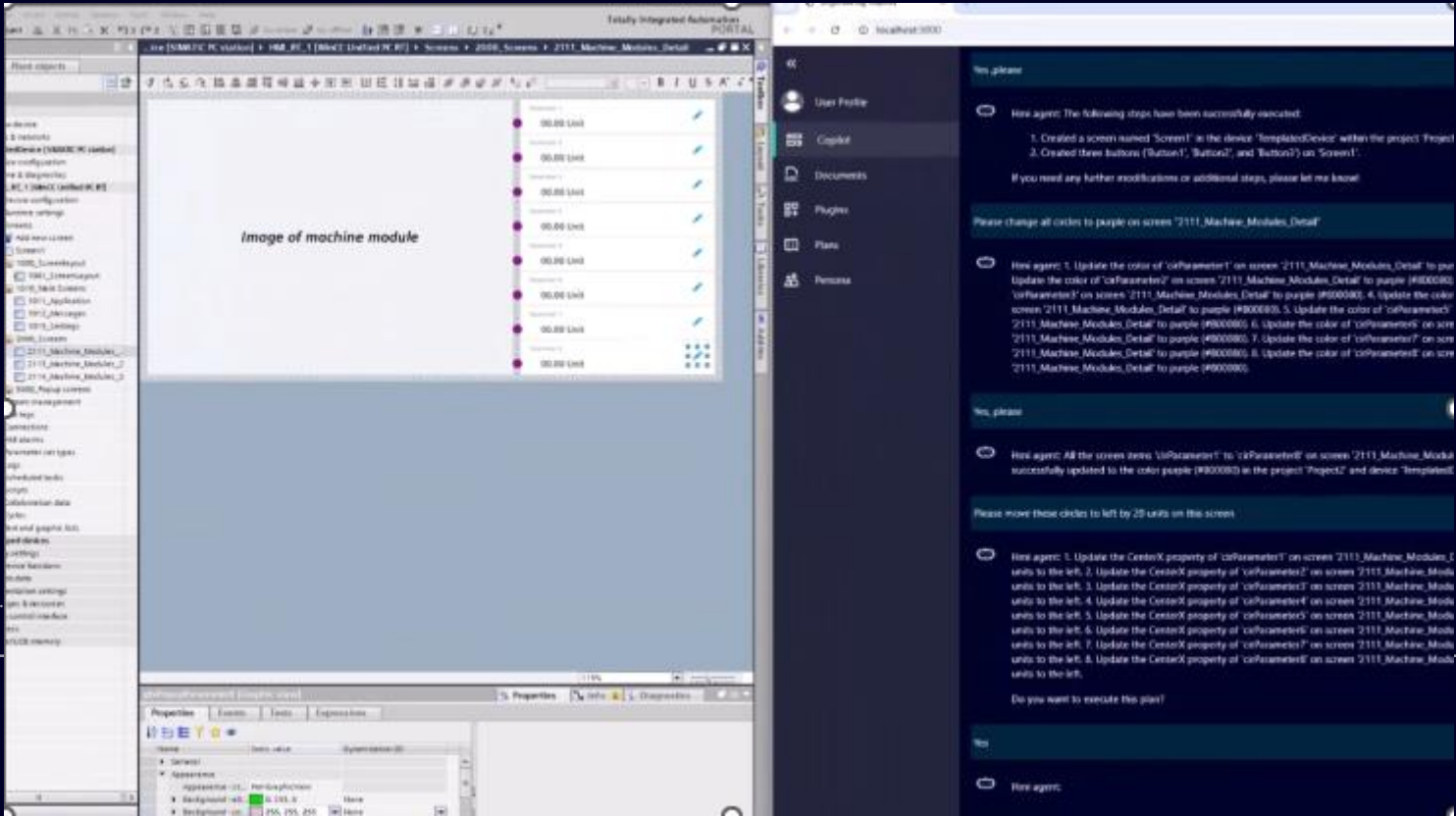
HMI Engineering Generating WinCC Unified HMI



HMI Engineering Generating WinCC Unified HMI



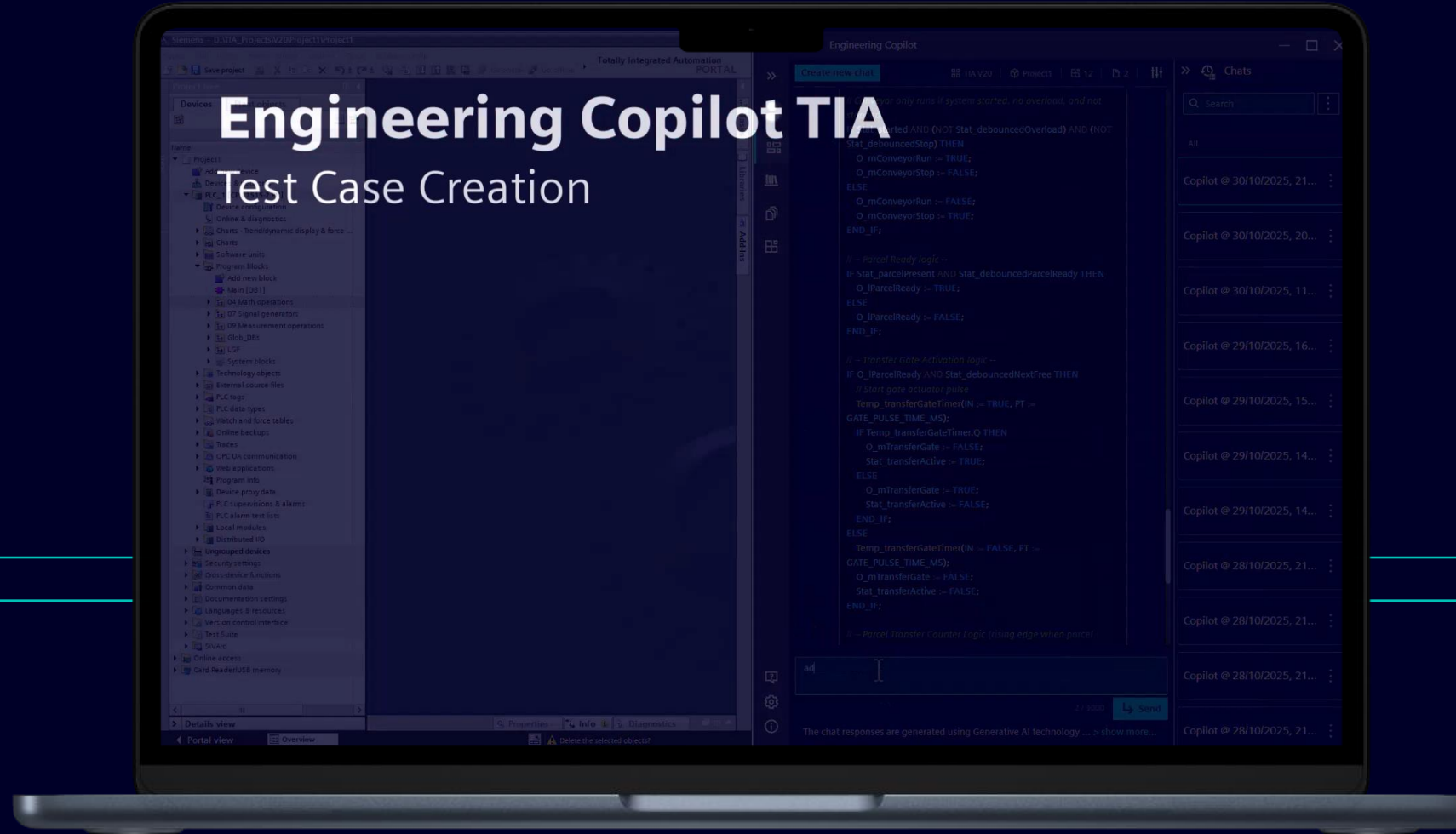
HMI Engineering Generating WinCC Unified HMI



Engineering Copilot TIA

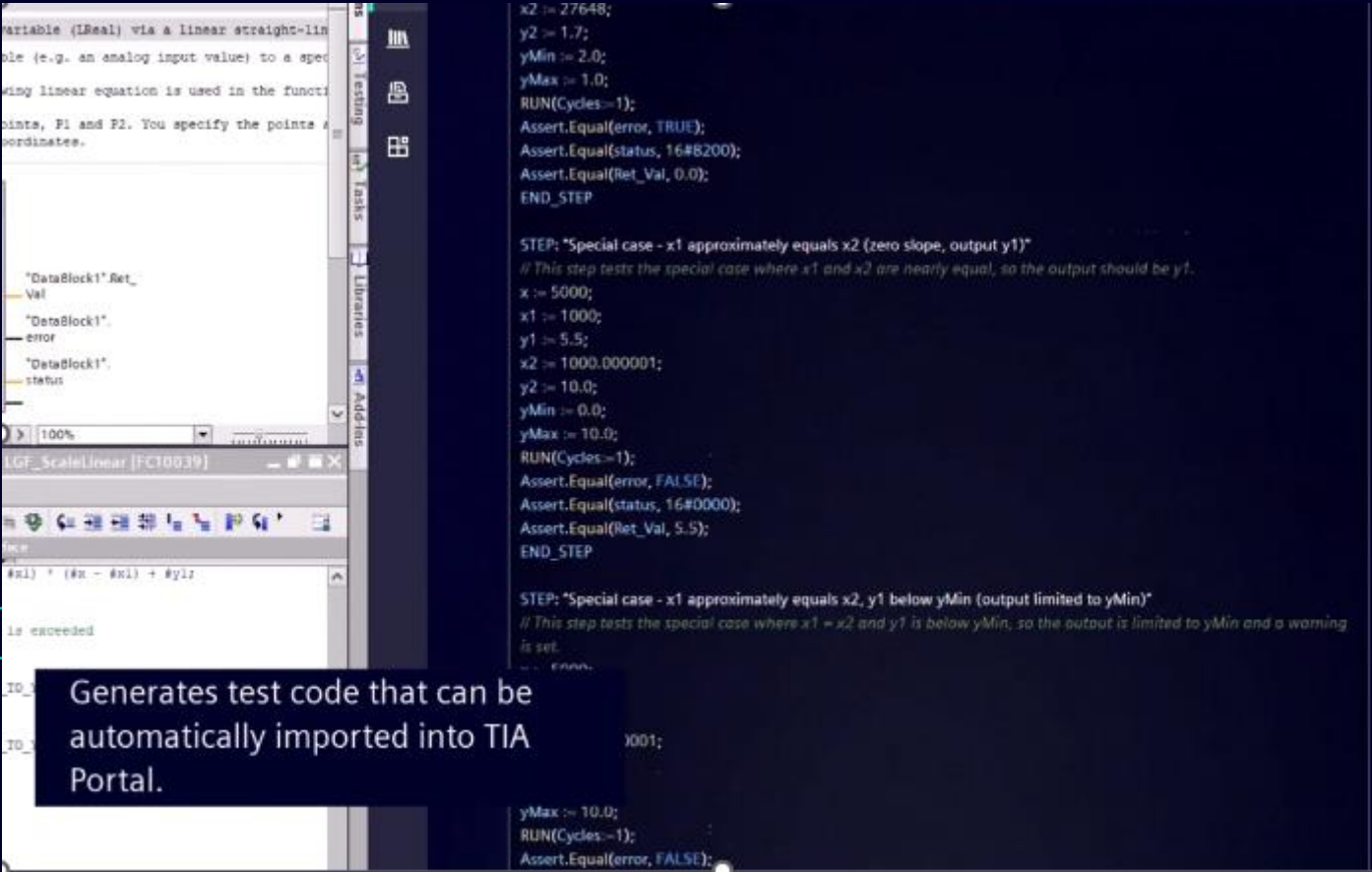
Code Creation:
Test Code in Seconds.

→ Cut manual testing and
documentation overhead



Code Creation: Test Code in Seconds.

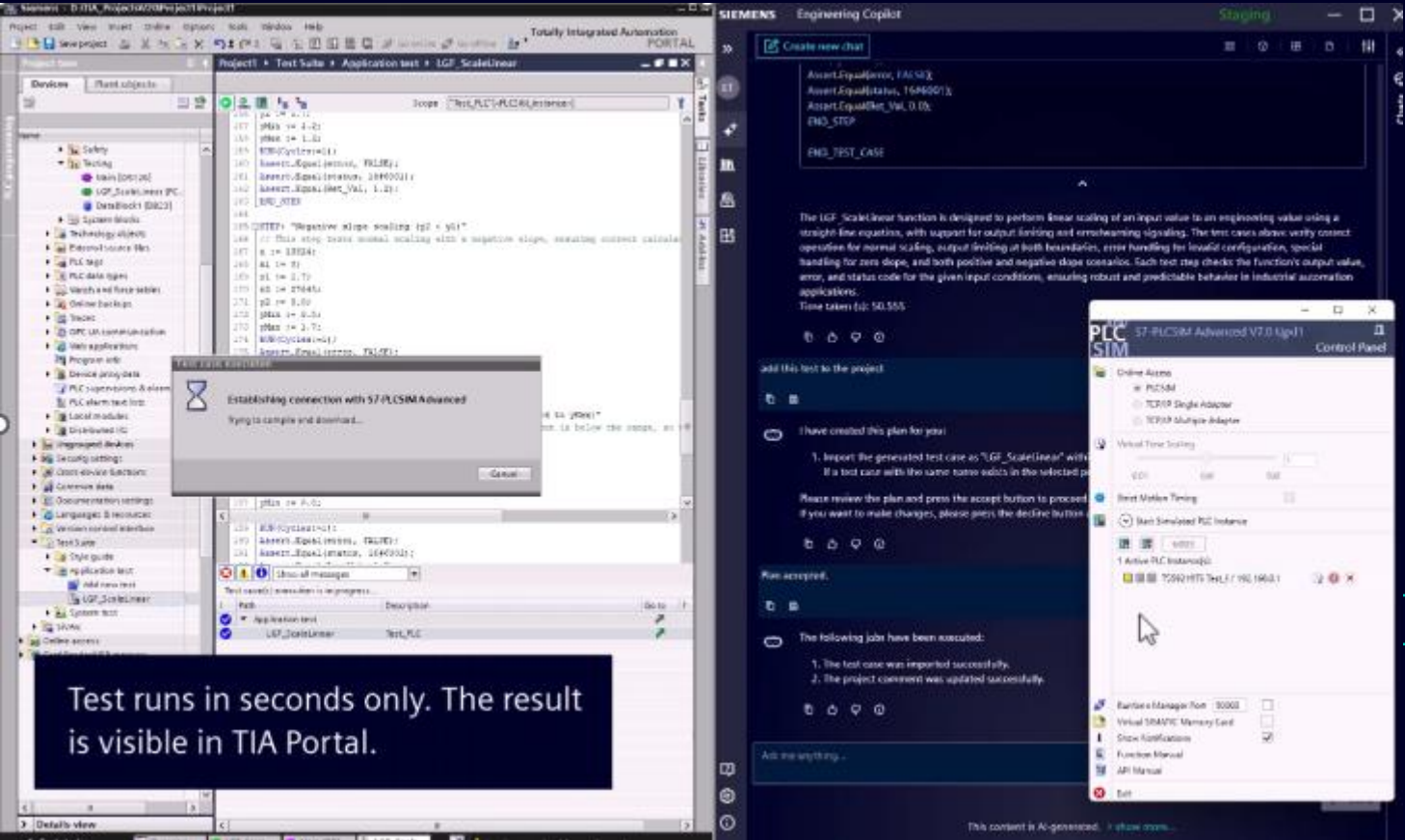
→ Cut manual testing and documentation overhead



Engineering Copilot TIA

Code Creation: Test Code in Seconds.

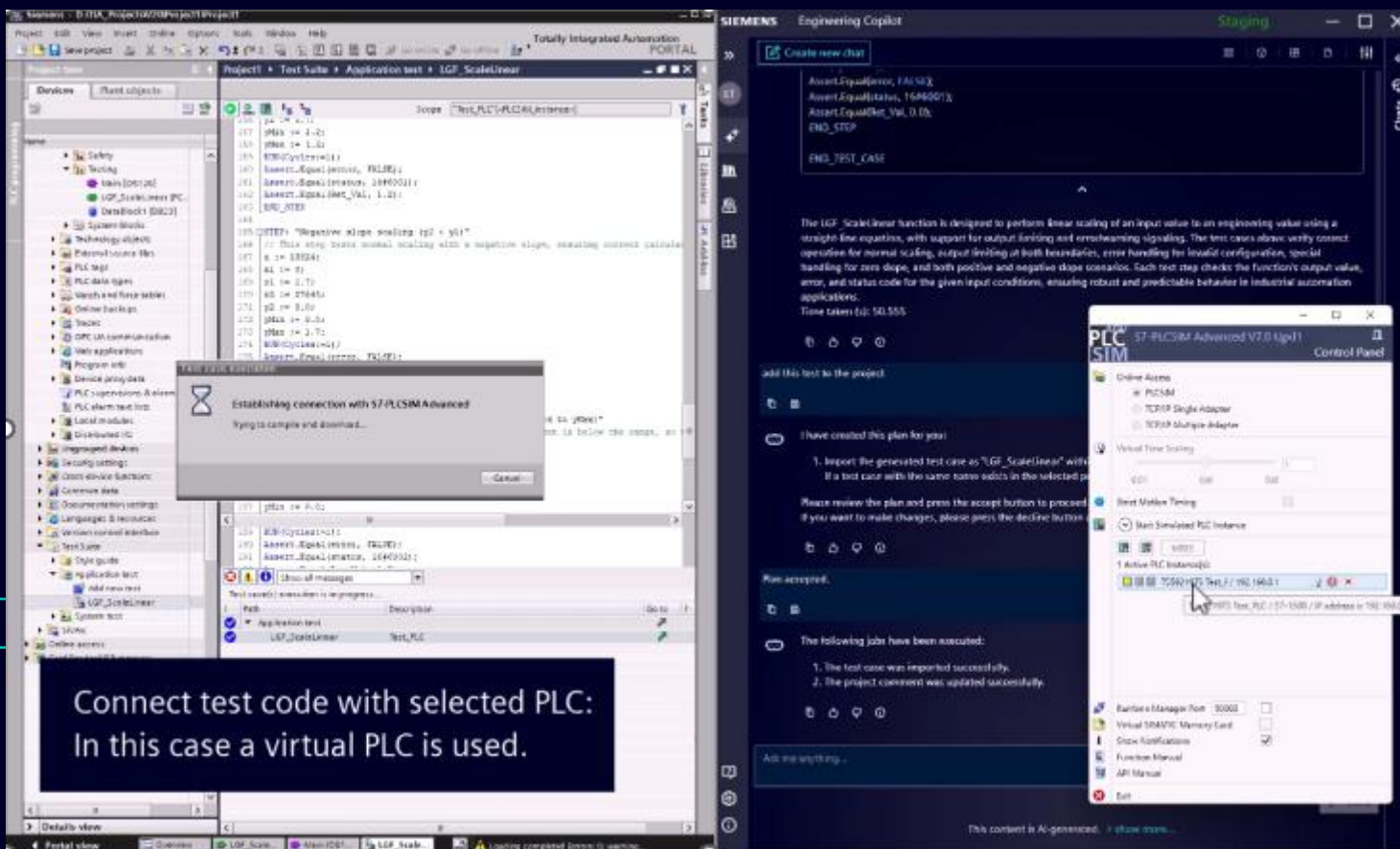
→ Cut manual testing and documentation overhead



Engineering Copilot TIA

Code Creation: Test Code in Seconds.

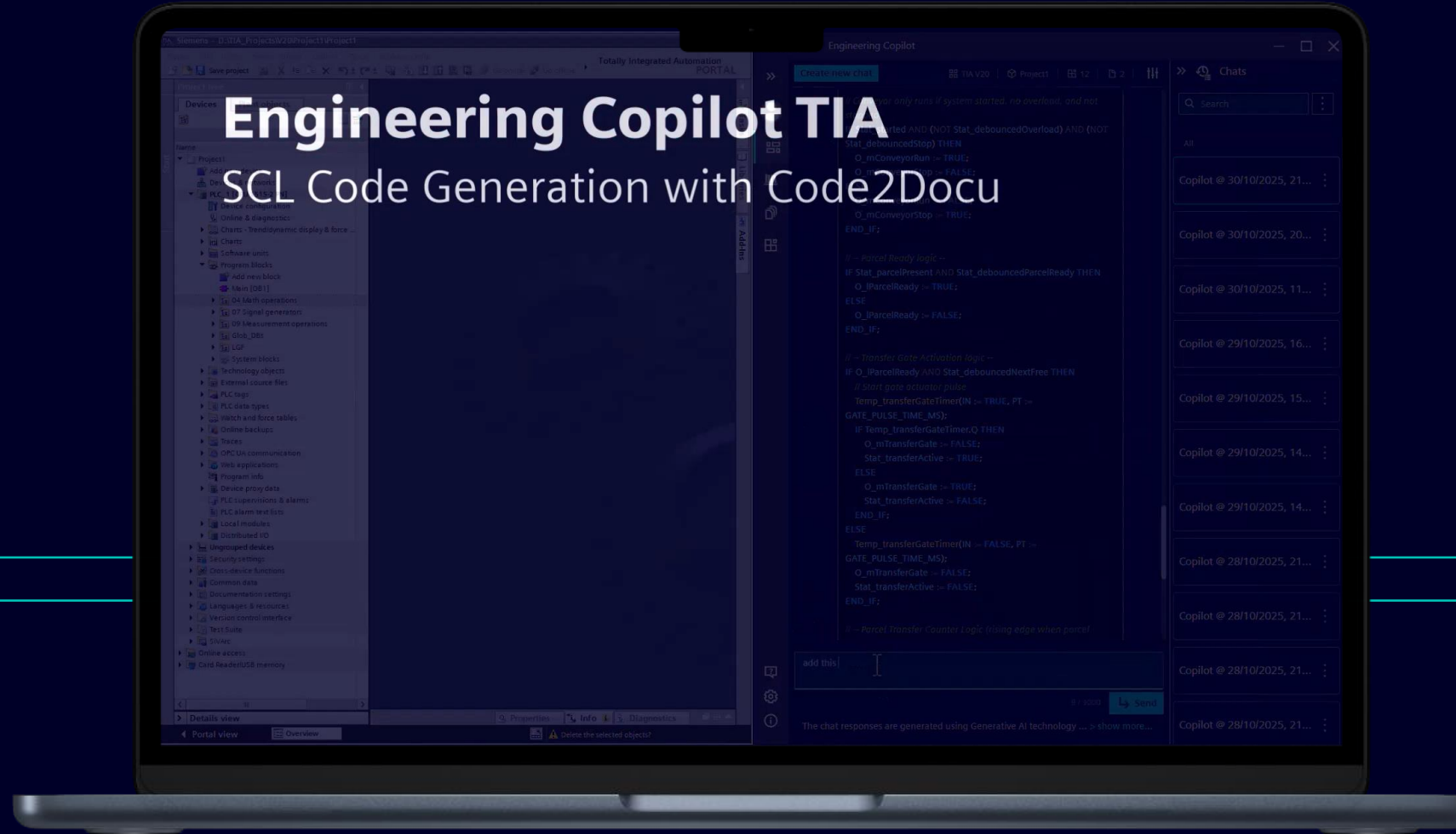
→ Cut manual testing and documentation overhead



Engineering Copilot TIA

Code Creation:
Document Code with Tia Portal
'Code2Docu' Add-In.

→ Cut manual documentation overhead.



Engineering Copilot TIA

Code Creation: Document Code with Tia Portal 'Code2Docu' Add-In.

→ Cut manual documentation overhead.



SIEMENS Engineering Copilot

Create a new chat

Create a SCL code to connect 3 input variables of data type string to one output string and cut out characters "T" and "N". Add code documentation in the format of #Code2Docu:

10/11/2025, 15:12

SCL

```
FUNCTION_BLOCK "FB_ConcatAndClean"
TITLE = FB_ConcatAndClean
[SY_Optimized_Access = "TRUE"]
AUTHOR = YourCompanyName_noWhiteSpaceAllowed
FAMILY = StringProcessing_noWhiteSpaceAllowed
NAME = FB_ConcatAndClean_Scl_noWhiteSpaceAllowed
[This block concatenates three input strings and removes all occurrences of "T" and "N" from the result.]

VAR_INPUT
    InputString1 : STRING; // First input string
    InputString2 : STRING; // Second input string
    InputString3 : STRING; // Third input string
END_VAR

VAR_OUTPUT
    OutputString : STRING; // Concatenated and cleaned output string
END_VAR

VAR_TEMP
    TempConcat : STRING; // Holds concatenated string
    TempResult : STRING; // Holds intermediate result after deletion
    FoundPos : INT; // Position of character to remove
    RemoveLen : INT; // Length of character to remove (always 1)
END_VAR

BEGIN
    // This code is LLM-generated and may be subject to third party licenses, including, without limitation, open source licenses.

    BEGIN_BLOCK_INFO "CODE"
        // Your Company Name / Copyright 2025
        //
        // Title: FB_ConcatAndClean
        // Comment/Function: Concatenates three input strings and removes all "T" and "N"
        // characters from the result.
        // Library/Block: StringProcessing
    END_BLOCK_INFO

```

Ask me anything...

01/000 Send

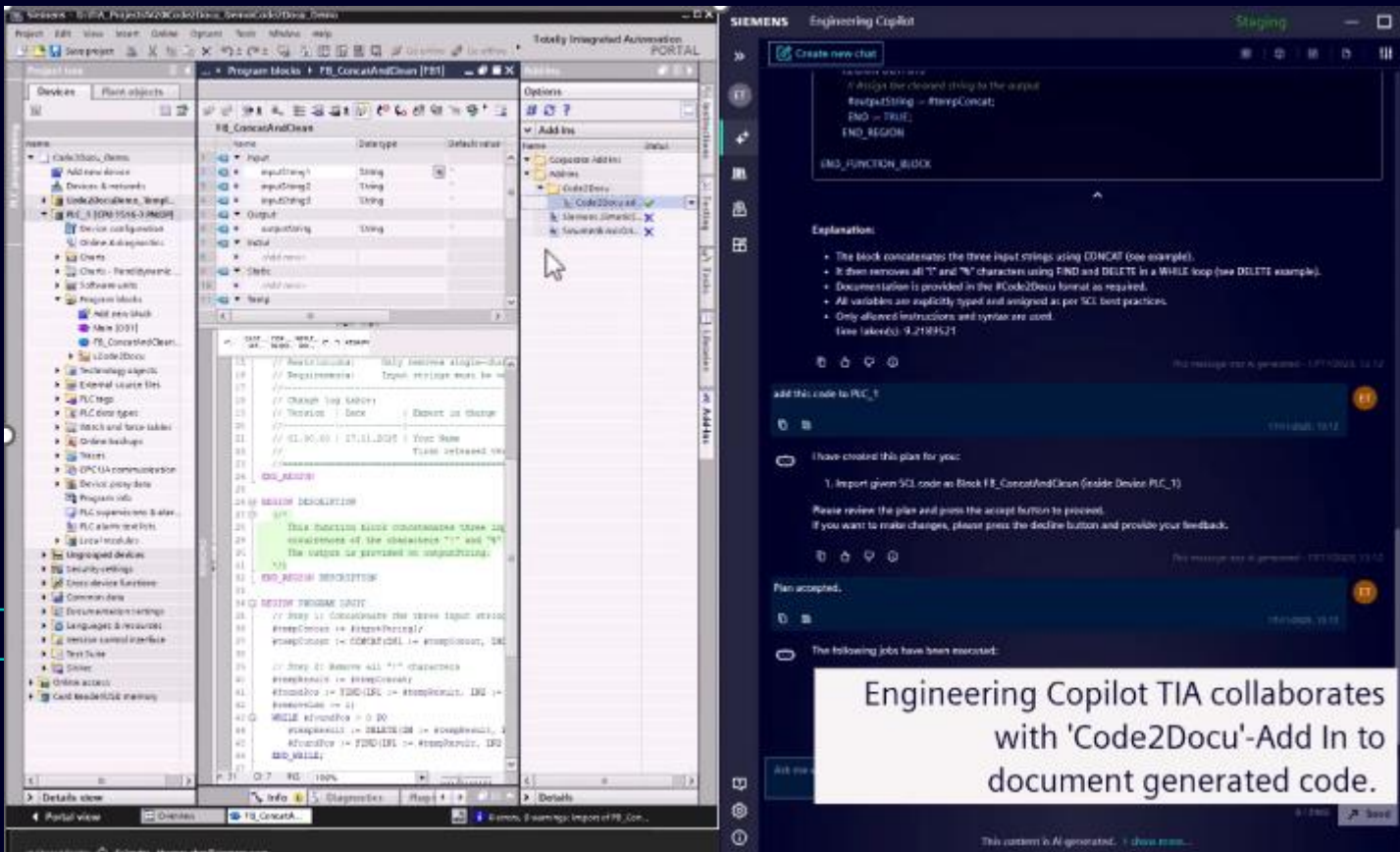
This content is AI-generated. Always verify the information for accuracy. > show more...

SCL code with code information is generated.

Engineering Copilot TIA

Code Creation: Document Code with Tia Portal 'Code2Docu' Add-In.

→ Cut manual documentation overhead.



Engineering Copilot TIA

Code Creation: Document Code with Tia Portal 'Code2Docu' Add-In.

→ Cut manual documentation overhead.

FB_ConcatAndClean (FB)

Author: Your Company Name\n\nShort description

This block concatenates three input strings and removes all occurrences of "I" and "K" from the result.

Interface description

Block interface

String inputString1 String outputString String

String inputString2

String inputString3

Input parameter

Identifier	Data type	Default value	Description
inputString1	String	*	First input string
inputString2	String	*	Second input string
inputString3	String	*	Third input string

Output parameter

Identifier	Data type	Description
outputString	String	Concatenated and cleaned output string

Functional description

This function block concatenates three input strings and removes all occurrences of the characters "I" and "K" from the resulting string. The output is provided as outputString.

Change log

Version & Date	Change description
1.0.0 17.11.2025	Your Name First released version

Code2Docu by TIA Portal STEP 7

A detailed documentation is generated.

Engineering Copilot TIA

Hardware Creation:
Streamline your device setup –
automatic device configuration using
Excel and/or Prompting.

→ No longer waste time while creating
devices manually



Engineering Copilot TIA

Hardware Creation:
Streamline your device setup –
automatic device configuration using
Excel and/or Prompting.

→ No longer waste time while creating
devices manually

The screenshot displays the Siemens Engineering Copilot TIA interface. On the left, a large window shows a project structure with 'Devices & networks' selected. On the right, a sidebar titled 'SIEMENS Engineering Copilot' contains a 'Documents' section. This section has a search bar, an 'upload' button, and a table listing 4 documents. A hand cursor is pointing at the first document, 'Device_list.xlsx'. Below the documents list, a white text box contains the instruction: 'Connect uploaded device list with the chat'.

Name	Uploaded	Type	Used In	Pages
Device_list.xlsx	30/10/2025, 20:46:13	.xlsx	Copilot @ 30/10/2025, 21:57:22	1
Style_guide_Company_A.pdf	30/10/2025, 20:46:25	.pdf	Copilot @ 30/10/2025, 21:14:45	1
Functional Description for a conveyor system.pdf	30/10/2025, 20:46:32	.pdf	Copilot @ 30/10/2025, 21:14:45	3
PLC_MES_Communication.pdf	30/10/2025, 20:46:58	.pdf	No Chat	23

Engineering Copilot TIA

Hardware Creation:
Streamline your device setup –
automatic device configuration using
Excel and/or Prompting.

→ No longer waste time while creating
devices manually



The screenshot displays the Siemens Engineering Copilot TIA interface. On the right, a chat window titled 'SIEMENS Engineering Copilot' is open, showing a prompt 'How can I help you today?' and a response 'Generating Response.' with a 'Stop' button. On the left, a table lists device configurations:

Device Name	Module Name	Version	Slot	Article Number	Ip Address
CPU	PLC_3-4201	4.0		6ES7 517-3UG10-0A00	172.16.0.1
Driver1	G220_Driver1	6.2		6ES7 517-3UG10-0A00	172.16.0.2
ET200SP	ET_1-4200	V8.1		6ES7 517-3UG10-0A00	172.16.0.3
	-KE61	V1.0		1-6ES7 517-3UG10-0A00	
	-KE62	V1.0		2-6ES7 517-3UG10-0A00	
	-KE63	V1.0		3-6ES7 517-3UG10-0A00	
	-KE64	V2.0		4-6ES7 517-3UG10-0A00	
	-KE65	V1.0		5-6ES7 517-3UG10-0A00	
	-ServerModule	V1.2		6-6ES7 517-3UG10-0A00	
Kuka	KUK-RO1			gsdml-v2.31-kuka-irc4-profinet_3.2-20140606.xml	

Below the table, a text box states: 'Engineering Copilot TIA automatically creates devices & imports them into existing TIA portal project'.

Engineering Copilot TIA

Hardware Creation:

Streamline your device setup –
automatic device configuration using
Excel and/or Prompting.

→ No longer waste time while creating
devices manually

The screenshot displays the Siemens TIA Portal interface. The main window shows a network topology with four devices: PLC_1-KE01, ET_1-KE60, KUK-RO1, and MV420. Each device has associated IP addresses listed below it. A chat interface is overlaid on the bottom right, showing a conversation about updating IP addresses. The chat messages are:

- ET_1-KE60
- 4. The mod...
- ET_1-KE60
- 5. The mod...
- ET_1-KE60
- 6. The mod...
- ET_1-KE60
- 7. The mod...
- ET_1-KE60
- 8. The mod...
- device ET...
- 9. The devic...
- PROFINET...
- 10. The devic...
- address 1...
- 11. Failed to...
- If you need fur...
- This message...
- Update the IP address r...
- I have created...
- 1. Set Interf...
- 2. Set Interf...
- 3. Set Interf...
- 4. Set Interf...

Below the chat interface, a table is visible with the following columns: Device Name, Module Name, Version, Slot, Article Number, and Ip Address. The table contains one row of data:

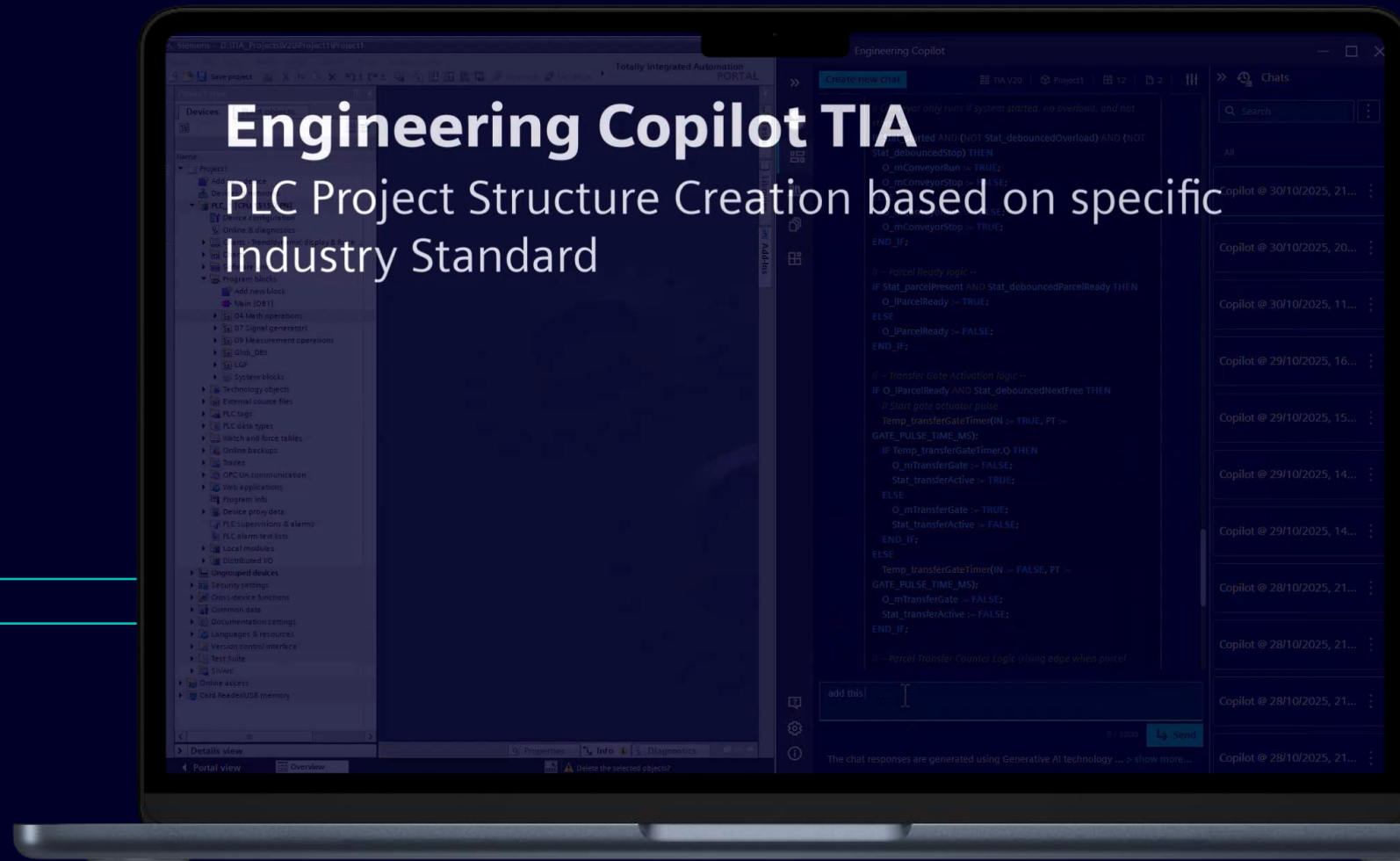
Device Name	Module Name	Version	Slot	Article Number	Ip Address
1					

Engineering Copilot TIA

Comprehensive TIA Portal Projects:

Creating PLC Project Structures based on specific Industry Standard

→ Reduce time-to-operation



Engineering Copilot TIA

Comprehensive TIA Portal Projects:

Creating PLC Project Structures based on specific Industry Standard

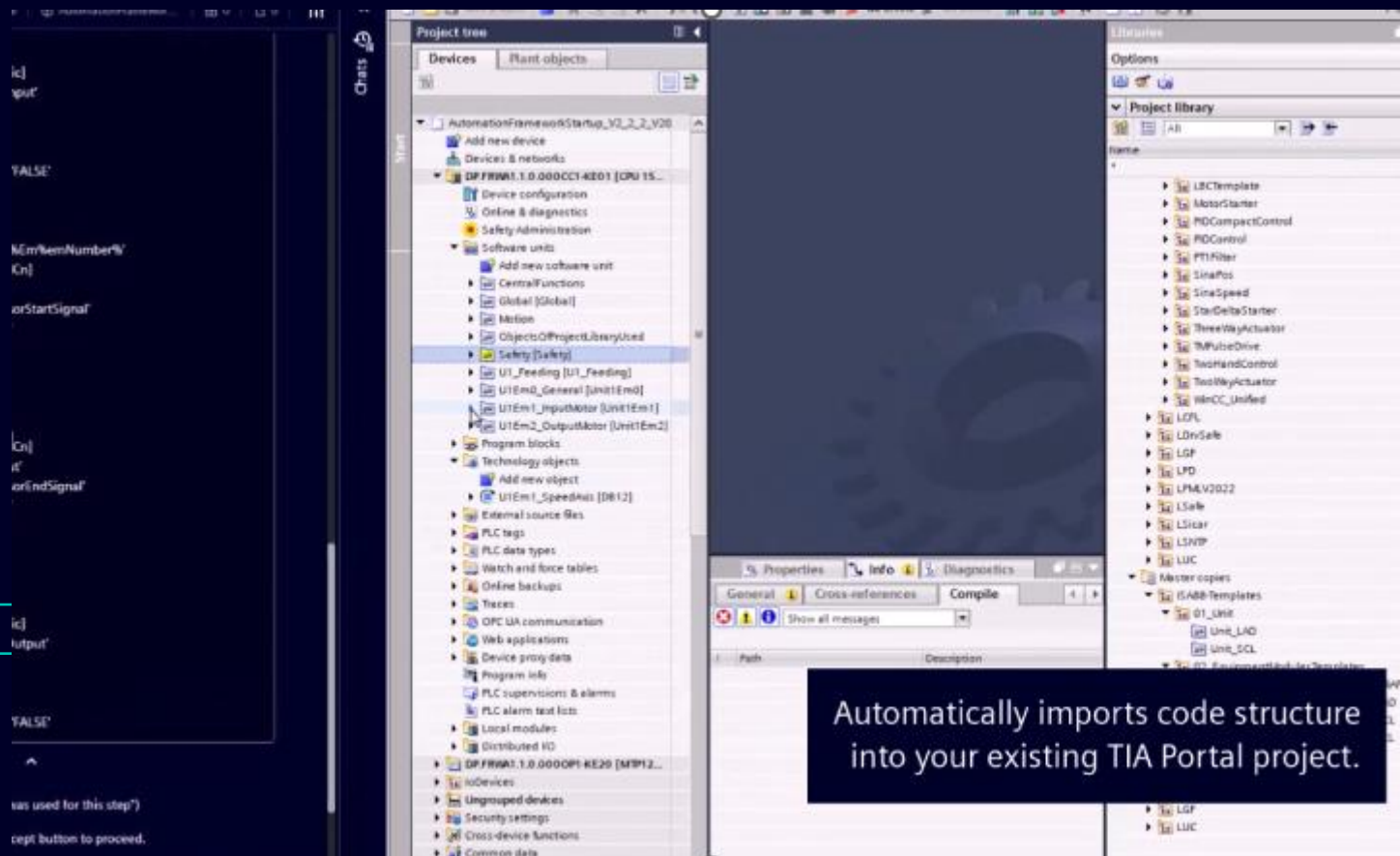
→ Reduce time-to-operation

The screenshot displays the Siemens Engineering Copilot TIA interface. On the left, a chat window titled "How can I help you today?" contains a user prompt: "Hello I want to generate a project using AutomationFramework with this elements and parameters Unit1: unitName Feeding unitNumber 1 EM1: emName InputMotor emNumber 1 DS1_EM1: cmName InputSensorStart digitalInputName InputSensorStartSignal digitalInputAddress %I0.3 DS2_EM1: cmName InputSensorOut digitalInputName InputSensorEndSignal digitalInputAddress %I0.4 Axis1_EM1: cmName conveyorMotorInput ToType SpeedAxis EM2: emName OutputMotor emNumber 2 DS1_EM2: cmName OutputSensorIn digitalInputName outSensorStartSignal digitalInputAddress %I0.5 DS2_EM2: cmName OutputSensorOut digitalInputName outSensorEndSignal digitalInputAddress %I0.6 Axis1_EM2: cmName conveyorMotorOutput". On the right, a project structure tree is visible, showing a hierarchy of components including "Add new device", "Devices & networks", "DPF RWAT.1.0.000-CC1-KE01 [CPU 1517...", "Device configuration", "Online & diagnostics", "Safety Administration", "Software units", "Add new software unit", "CentralFunctions", "Global [Global]", "Motion", "ObjectsOfProjectLibraryUsed", "Safety [Safety]", "Program blocks", "Technology objects", "External source files", "PLC tags", "PLC data types", "Watch and force tables", "Online backups", "Traces", "OPC UA communication", "Web applications", "Device proxy data", "Program info", "PLC supervisions & alarms", "PLC alarm text lists", "Local modules", "Distributed I/O", "IODevices", "VERSION CONTROL INTERFACE", "Test Suite", and "Online access". A text box at the bottom right of the interface states: "Generate PLC project structures using specific industry standard."

Engineering Copilot TIA

Comprehensive TIA Portal Projects: Creating PLC Project Structures based on specific Industry Standard

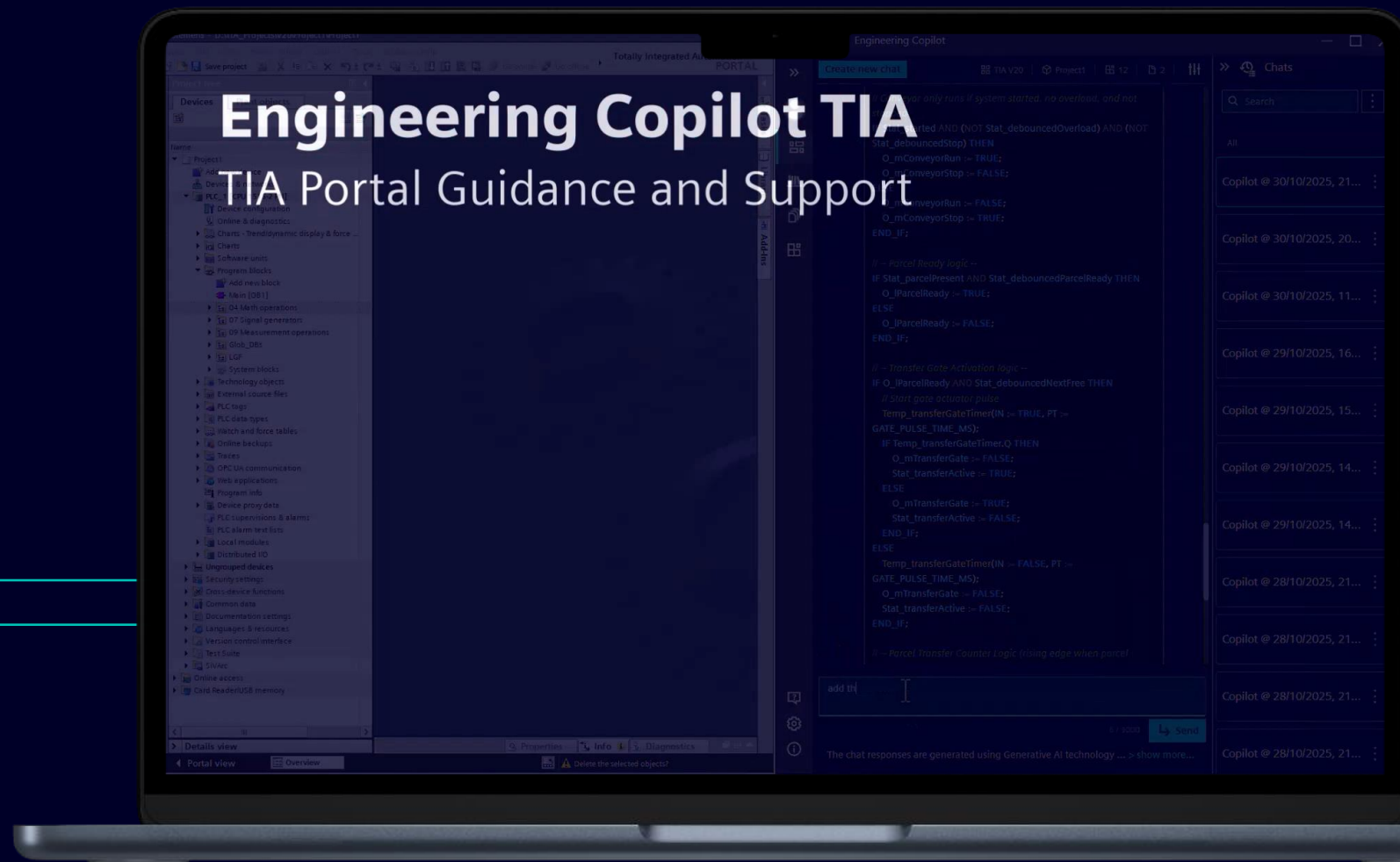
→ Reduce time-to-operation



Engineering Copilot TIA

TIA Portal Guidance & Support:
Quick responses to questions in
the context of TIA Portal
Engineering.

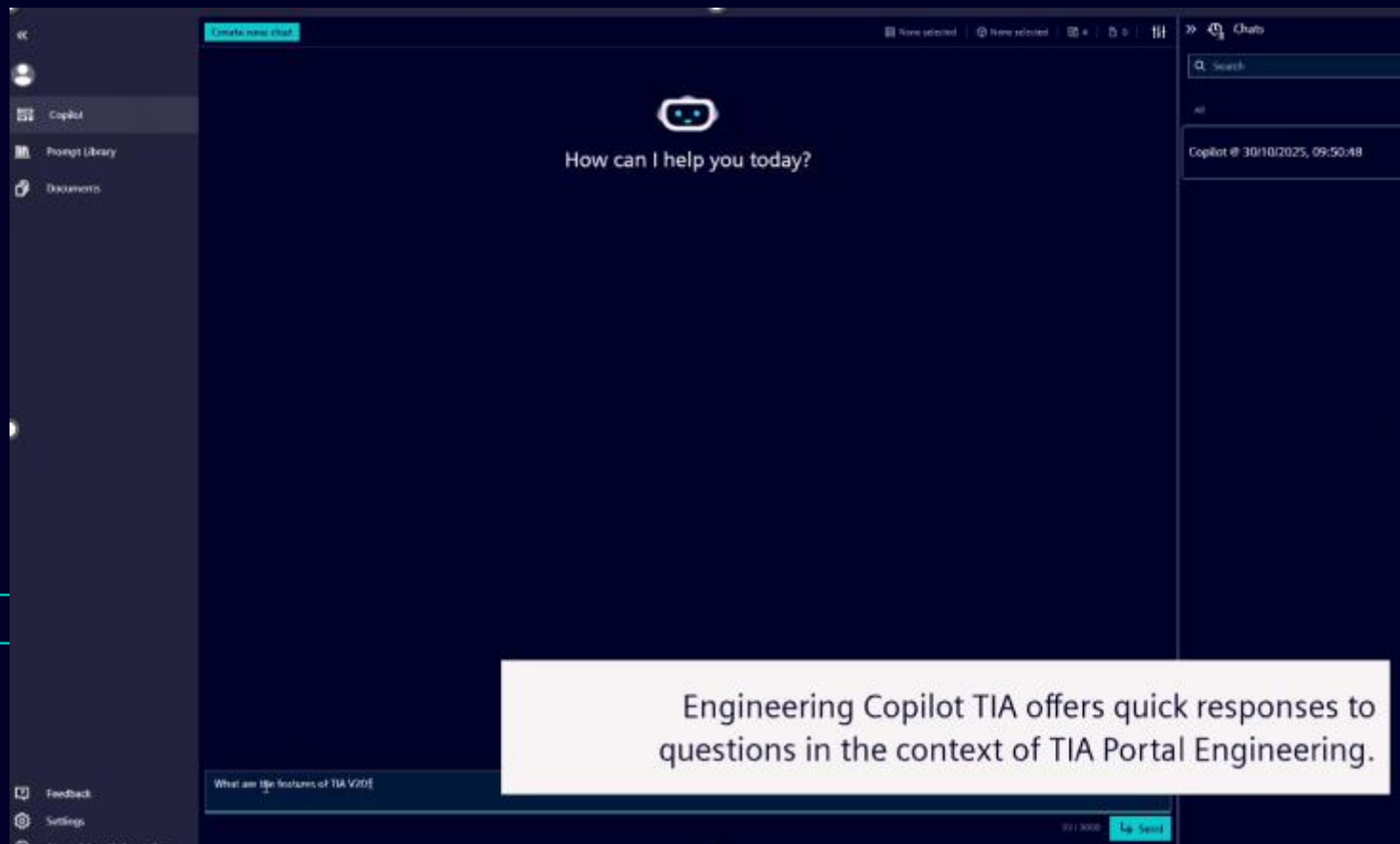
→ Easy access to relevant expert know-how



Engineering Copilot TIA

TIA Portal Guidance & Support:
Quick responses to questions in
the context of TIA Portal
Engineering.

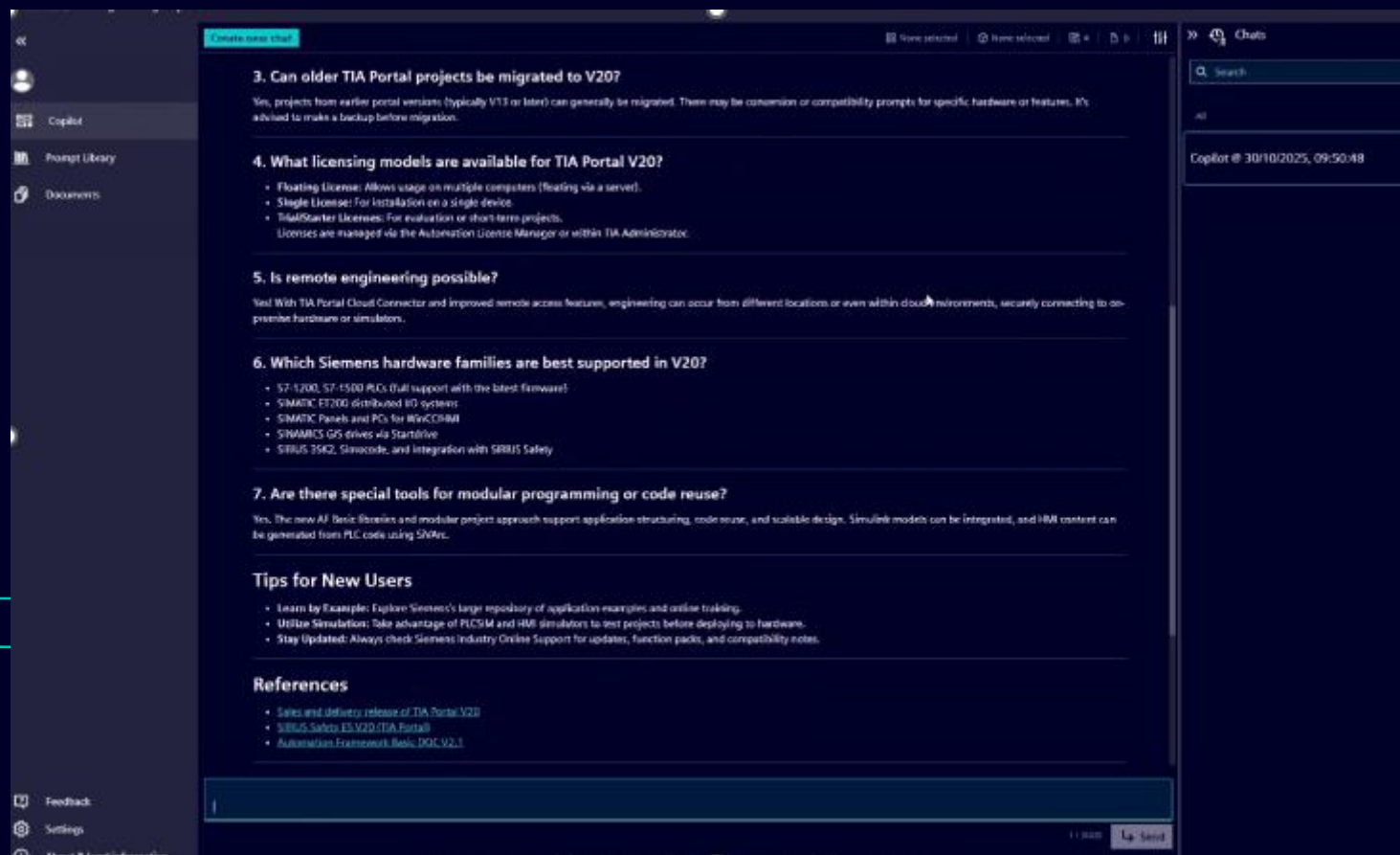
→ Easy access to relevant expert know-how



Engineering Copilot TIA

TIA Portal Guidance & Support: Quick responses to questions in the context of TIA Portal Engineering.

→ Easy access to relevant expert know-how



Engineering Copilot TIA

TIA Portal Guidance & Support:

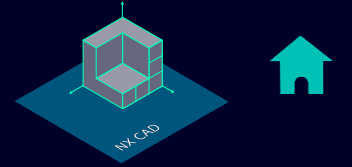
Quick responses to questions in the context of TIA Portal Engineering.

→ Easy access to relevant expert know-how



The screenshot displays the Siemens Engineering Copilot TIA interface. The left pane shows a document titled "TIA Portal V20: Overview of Engineering options" with a table of options. The right pane shows a chat window with a search bar and a message: "The given information includes direct references to relevant SIOS entries."

Option	Version	Release Date	Release Type	Release Info
TIA Portal V20	V20.0	2020-09-01	Major	Initial release
TIA Portal V20	V20.1	2021-03-01	Minor	Minor update
TIA Portal V20	V20.2	2021-09-01	Minor	Minor update
TIA Portal V20	V20.3	2022-03-01	Minor	Minor update
TIA Portal V20	V20.4	2022-09-01	Minor	Minor update
TIA Portal V20	V20.5	2023-03-01	Minor	Minor update
TIA Portal V20	V20.6	2023-09-01	Minor	Minor update
TIA Portal V20	V20.7	2024-03-01	Minor	Minor update
TIA Portal V20	V20.8	2024-09-01	Minor	Minor update
TIA Portal V20	V20.9	2025-03-01	Minor	Minor update
TIA Portal V20	V20.10	2025-09-01	Minor	Minor update

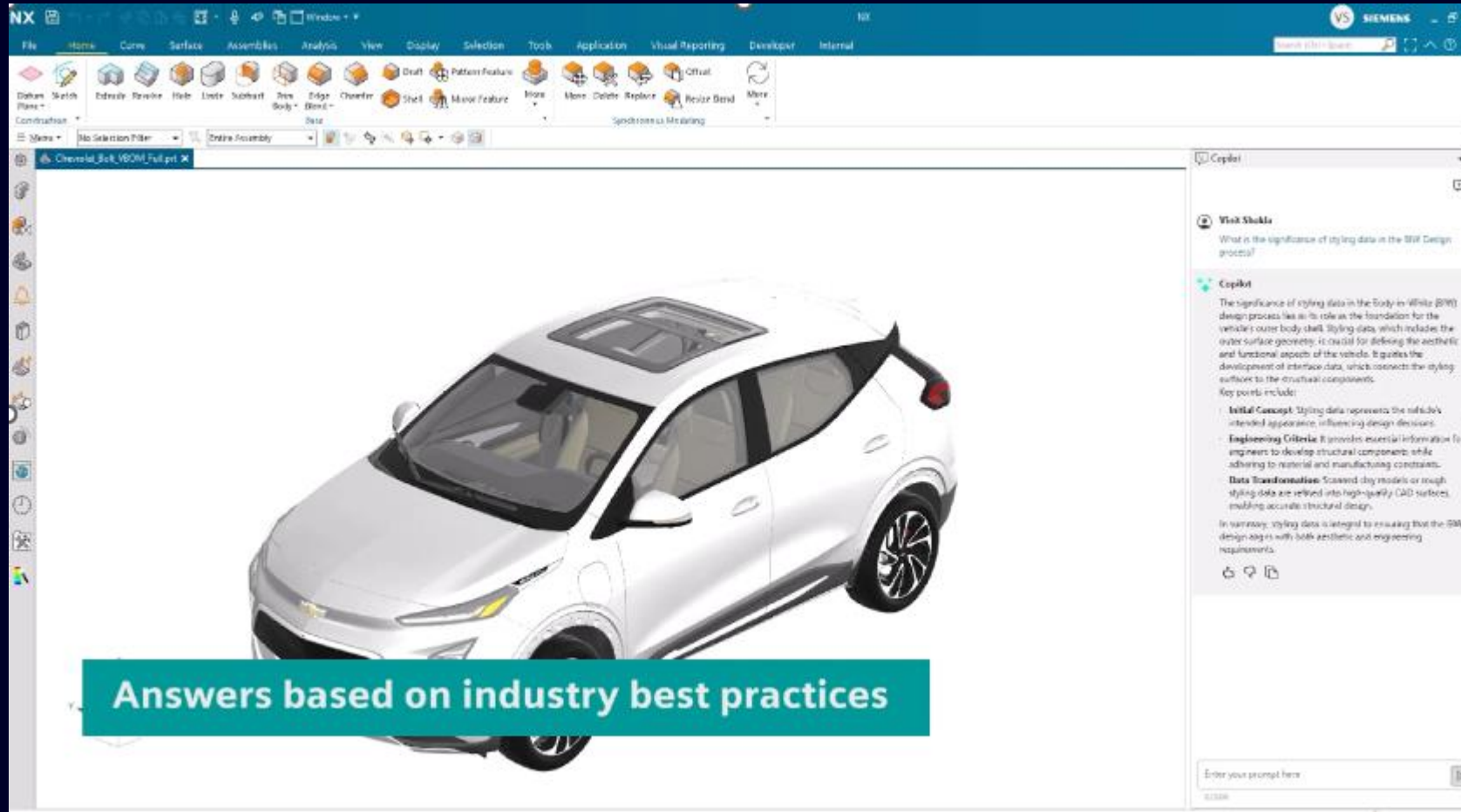
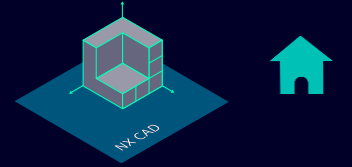


Transform engineering

Design Copilot NX delivers AI engineering assistance to enable users to ask natural language questions, quickly access detailed technical insights and streamline complex design tasks for faster and smarter product development. Design engineers can:

- Receive accurate design assistance
- Understand detail design context
- Make design changes quickly
- Enable more productive workflows and efficiency savings

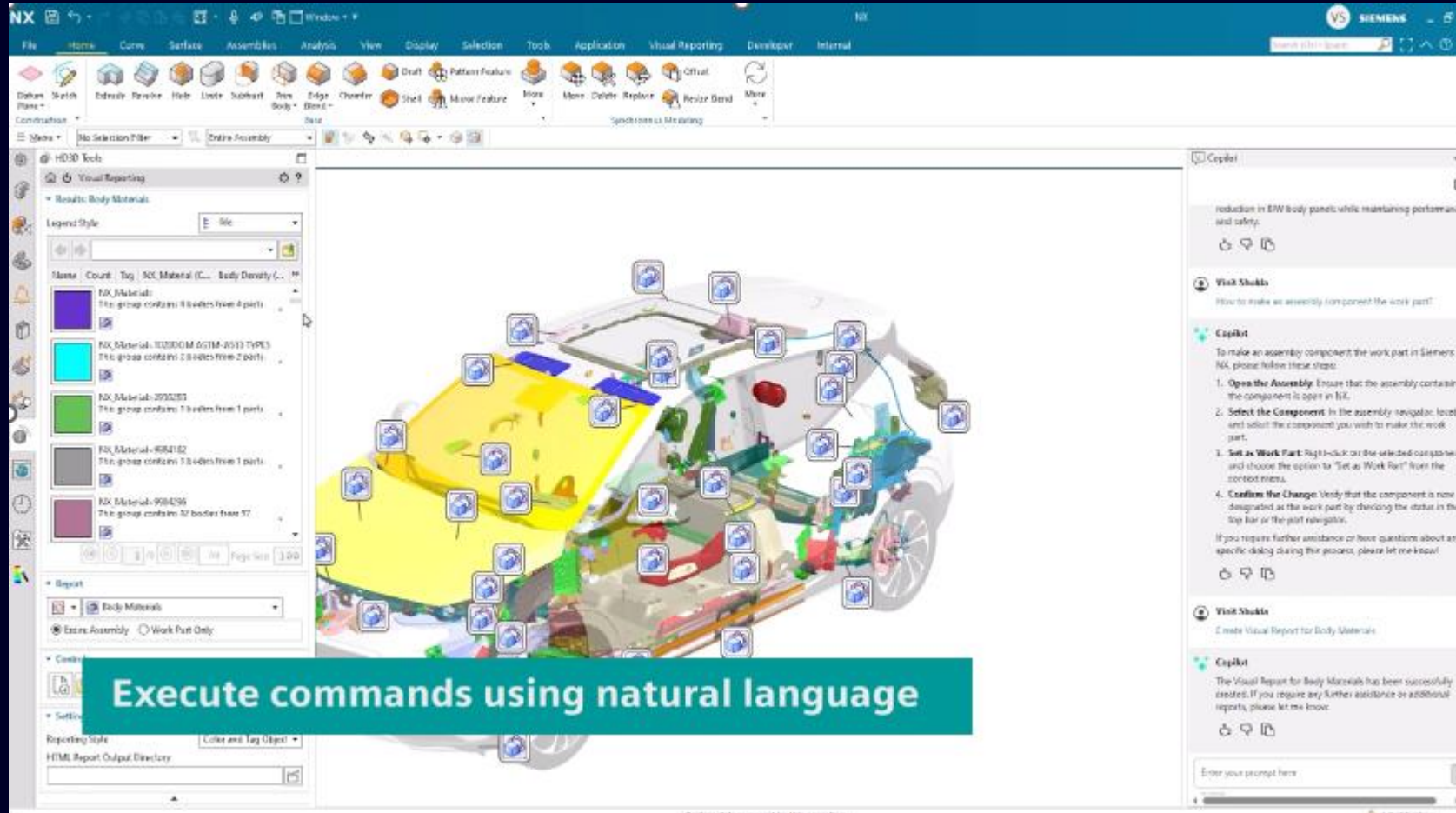
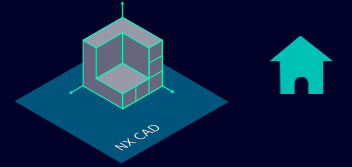
Design Copilot NX



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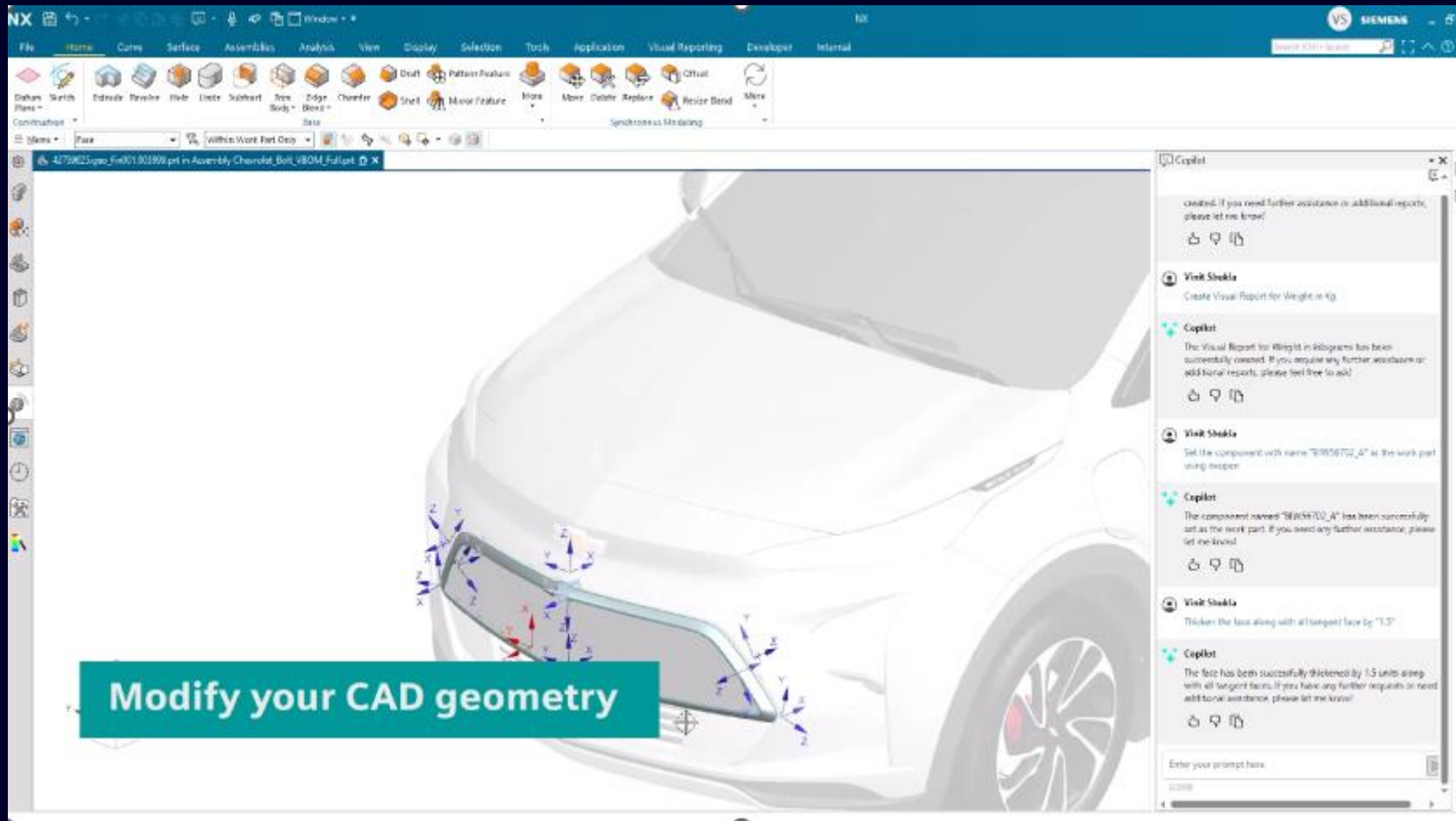
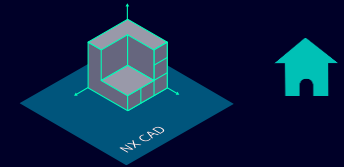
Design Copilot NX



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Design Copilot NX



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- Make design changes quickly
- Enable more productive workflows and efficiency savings

! Kiitos!



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