



ODC 20
26
Omnis Developer Conference

AI-Assisted Development in Omnis Studio



Concepts, Use Cases &
Demos

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AI in Omnis Studio - The starting point

18 months ago we first developed & introduced

Omnis AI Worker Objects

Chat, vision, function calling
& more... for developers

Omnis engineering began investigations with Nebul

Training a coding model with the Omnis Language

RAG encoding our documentation for a chatbot interface

18 months later - What's changed ?



Everything's changed....

Frontier AI coding models are now foremost in development

AI evolution is constantly in the news

In the the last 3 months we've had interest from a number of developers asking questions - before it was quiet

It feels like developers have realised, 'change is here'

What the plan ?



What's going on with the roadmap ?

Omnis engineering has had discussions with developers

We are being asked - 'Does Omnis have an AI strategy ?'

Just because it's not on previous roadmaps doesn't mean we're not interested - quite the opposite, we've been busy !

This evolving technology is VERY important to us, and to you

We have a number of plans, today we will focus on one

MCP Server

So, what is an MCP Server ?

A connector linking an AI host (today Claude) to external tools & data

Think of it as REST for AI - a standard protocol anyone can build to

Servers expose three primitives **Tools, Prompts & Resources**

How does an MCP server help me ?

Omnis Studio

Studio 12 will include a MCP Server later this year

The server will include a Studio IDE toolset

A dedicated set of MCP tools to interact with libraries & classes

Let's take a look at an early preview

Example



AI Host, Claude & Omnis Studio



With Claude running and the Omnis MCP server connected

Me : *"Focus on testwindow in my mcp-test library - run a code review"*



Let me gather everything about `testwindow` first.

Used omnis-mcp-server integration >

Good, I've got everything. Let me render this as a proper code review report.

AI Host, Claude & Omnis Studio



Code review report for testwindow in mcp-test

Issues found

6

Warnings

3

Info / style

3

Fields reviewed

4

VARIABLES



Telephone ivar breaks naming convention

bug

All other instance variables use the `iv` prefix — `ivFirstName`, `ivLastName`, `ivPostCode` — but the telephone variable is simply named `TeLePhone`. This makes it indistinguishable from a local or class variable at a glance and will cause confusion.

Suggested fix

Rename to `ivTelephone` — update `dataname` on `entry_1021` and all references in button `$event`



`ivAddress` declared but never used

style

`ivAddress` is defined as an instance variable but there is no corresponding entry field, label, or reference anywhere in the window. Either the field is missing from the UI, or the variable is dead code.

Suggested fix

Add an `Address` entry field to the UI, or remove `ivAddress` if it is no longer needed

The code review results found :

Inconsistent variable naming conventions

Unused variables

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VALIDATION LOGIC (BUTTON \$EVENT)

No action taken on successful validation

warning The button checks all four fields and shows an error if any are empty, but there is no ELSE branch — nothing happens when the form is valid. The "Update Details" button does nothing on success.

Suggested fix

```
Add an Else branch after the final End If to handle the success case (save, close, call a method etc.)
```

No whitespace-only input guard

warning `len(ivFirstName)<=0` only catches a completely empty string. A user entering a single space would pass validation. `stripspaces` is enabled on the entry fields which helps, but this should be explicit in the logic too.

Suggested fix

```
Use len(trim(ivFirstName))<=0 — or rely on stripspaces and document that dependency clearly
```

Validation references bare Telephone, not ivTelephone

style The button `$event` checks `len(TeLephone)<=0` — consistent with the broken naming, but confirms the variable name needs fixing end-to-end.

Suggested fix

```
Fix after renaming the ivar to ivTelephone
```

Logic path
observations

Logic test
observations

General
observations

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WINDOW PROPERTIES

ⓘ Window title is blank

warning The title property is an empty string and showTitle is false. This is likely intentional for an embedded sub-window, but if this is a standalone window the user will have no context for what they are looking at.

Suggested fix

Set title to e.g. "Contact details" and set showTitle to true, unless used as a subwindow

ⓘ Label typo: "Telephon" missing final e

style The label for the telephone entry field (Ident 1020) has its text set to Telephon — missing the trailing "e".

Suggested fix

Set text property of newwindow_label_1016_1018_1020 to "Telephone"

✅ Accessibility labels in place (mostly)

pass AXIlabelby is correctly set on the Firstname entry field linking it to its label. The remaining three entry fields have empty AXIlabelby — the \$construct methods are stubbed with descriptions to set this but the code body is empty.

Suggested fix

Implement the \$construct stubs on entry_1019, _1021, _1023 to set AXIlabelby as done for entry_1017

General observations

Spelling issues found

Missing attributes found

Example



In summary

Omnis will deliver an MCP server later this year
The server will include an Omnis IDE toolset

Developers will be able to run multiple MCP servers
Build their own MCP tools
Allowing new ways to expose your data & tools to an AI host

We are investigating best ways to track tool use, token use,
report statistics and more

Expect to see more AI features delivered in Studio 12 beyond those
on the roadmap.

Our observations...

Possible prompt tips for AI code development, things to be aware of :

- “Plan first...” - ask it to think, not do
- “Brief replies” - less waffle....saves your tokens
- “Don't guess...ask” - get AI to ask questions. Guessing costs tokens
- “Rethink” - push back.... think again, question plans

Think like AI....



Awni Hannun ✓ @awnihannun · 23h

Adopting Claude speak in my regular life, episode 1:

Partner: Did you do the dishes tonight?

Me: Yes they're done.

Partner: Why are they still dirty?

Me: You're right to push back. I didn't actually do them.

ChatGPT converted



Awni Hannun ✓ @awnihannun · 23h

Claude-Sprechweise in meinem Alltag, Folge 1:

Partner: Hast du heute Abend das Geschirr gespült?

Ich: Ja, ist erledigt.

Partner: Warum ist es dann noch schmutzig?

Ich: Du hast recht, das zu hinterfragen.

Ich habe es tatsächlich nicht gemacht.



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Thank you