

Um evento com propósito

Embarcadero Conference 2020 Online

TOOOS CONECTADOS



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Embarcadero Conference
2020 Online

Integração do **Delphi** com aplicações externas via **Open Tools API**

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Quem sou eu?



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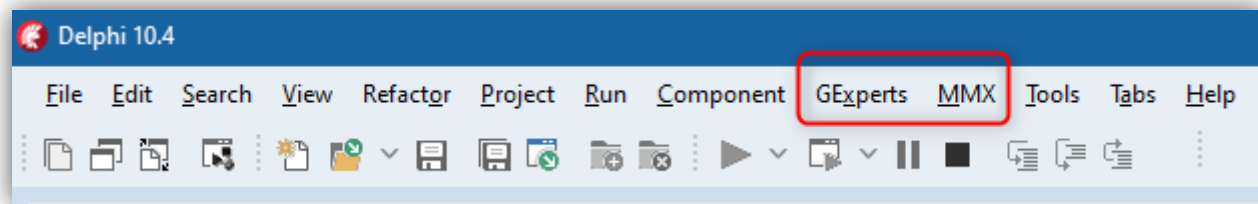
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“Open Tools API” Que isso?

Você já usou?

- CnPack
- GExperts
- MMX
- DDevExtensions
- IDE Fix Pack



Open Tools API (OTA, IOTA, OTAPI)

Trata-se de um conjunto de Interfaces que permitem o acesso à funcionalidades da IDE.

Por exemplo...

- Menu principal
- Editor de Códigos
- *Object Inspector*
- *Project Manager*
- *Toolbars*

Então você pode...

- Criar wizards (*add-ons, plugins*)
- Adicionar atalhos para aplicações externas
- Automatizar ações recorrentes

Introdução à algumas Interfaces

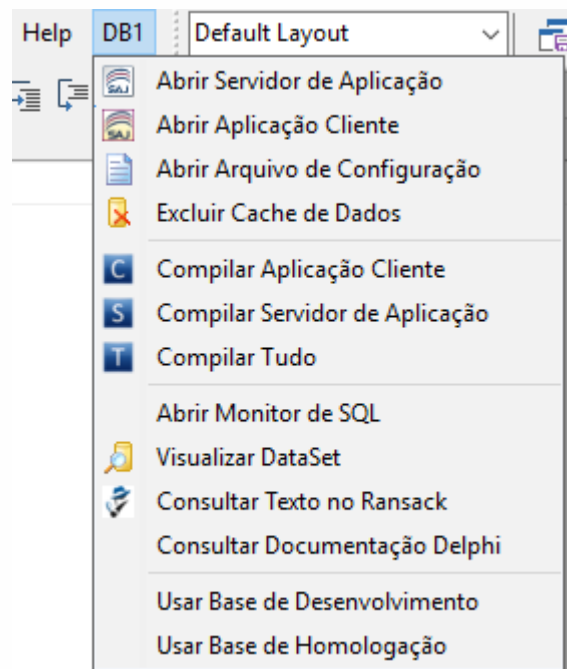
- *IOTAWizard* – desenvolvimento de plugins
- *IOTAMenuWizard* – criação de novos menus
- *IOTAEditor* – editor de códigos
- *IOTAFormEditor* – editor de formulários
- *IOTAEnvironmentOptions* – opções da IDE
- *IOTAProjectGroup* – grupos de projetos
- *IOTAProject* – projeto ativo
- *IOTABreakpoint* – ações com o *breakpoints*
- *IOTAkeyboardBinding* – atalhos para funcionalidades
- *IOTAGetItServices* – ações com o GetIt Manager
- * *IOTAIDETHemingServices* – temas da IDE
- * *IOTAAsyncCodeInsightManager* – ações com o Code Insight


ToolsAPI.pas

A stylized illustration of a laptop with a glowing blue screen and keyboard, set against a dark blue background with faint circuit patterns.

Show me the code!

Plugin da DB1





An Idera, Inc. Company

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Extending the IDE Using the Tools API

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You can extend and customize the RAD Studio IDE with your own menu items, tool bar buttons, dynamic form-creation wizards, and more, using the Tools API.

The Tools API is a suite of over 100 interfaces that interact with and control the IDE, including the main menu, the tool bars, the main action list and image list, the source editor's internal buffers, keyboard macros and bindings, forms and their components in the form editor, the debugger and the process being debugged, code completion, the message view, and the to-do list.

To extend the IDE with new features using the Tools API:

1. Create a package and configure it to extend the IDE. You may also use an existing package.
2. Implement the logic of your IDE extension.
3. Install your extension onto the IDE.

Creating or Extending a Package to Extend the IDE

To extend the IDE using the Tools API you must first [create or extend a package](#) so that it can use the Tools API.

Once you have a package, you can implement your code using a [data module](#). Add a data module to your package, [change its framework affinity](#) to the VCL, and use its [OnCreate](#) and [OnDestroy](#) events to define code to create and destroy your IDE extension.

Alternatively, you may define your extension in a unit of your package or in the main source code file of your package.

Implementing the Logic of Your IDE Extension

The code in your package can use services that the Tools API provides. Each service is an interface that presents a set of related functions. The various services offer access to the [Code Editor](#), the [Form Designer](#), the debugger, and so on.

Additionally, you may [use special interfaces](#) to implement certain features, such as wizards, notifiers, creators, modules, editors, and more.

All of the Tools API interfaces are declared in the units that you can find at `C:\Program Files (x86)\Embarcadero\Studio\21.0\source\ToolsAPI`. You can check the contents of those units to discover new ways to extend the IDE. The [library reference documentation](#) does not generally provide reference documentation of the Tools API. However, there is reference documentation available for the [PlatformAPI](#) unit of the Tools API.

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