

<epam>

# Content generation with different models

JUNE 2025

**There are no magic! It is simple REST API!**

# Before we start:

- **Raise your hand and ask questions if you have any**
- **It is better to ask questions when you have**
- **Also, type them in chat**
- **We will need DIAL API key for this session**

# Agenda:

- **Presentation:**
  - **ITT (Image To Text) content generation**
  - **TTI (Text To Image) content generation**
- **Workshop:**
  - **Analyze image with request in OpenAI Specification format (Optional part)**
  - **Analyze image via Attachments**
  - **Generate image**

# Image To Text

## ITT

# ITT OpenAI Specification:

“content” in message is array

“content” can be:

- Text content (type: text)
- Image content (type: image\_url)
- ⚠ Audio content (type: audio\_input), currently unsupported by DIAL

“image\_url” can apply as “url”:

- URL with downloadable image
- Base64 decoded image:  
f"data:image/png;base64,{base64\_image}"

DIAL core supports OpenAI Specification by default. You can use OpenAI Specified request format to call other LLMs (Gemini, Claude) – DIAL will adapt messages for vendor specific format under the hood

```
{  
  "messages": [  
    {  
      "role": "user",  
      "content": [  
        {  
          "type": "text",  
          "text": "What is in this image?"  
        },  
        {  
          "type": "image_url",  
          "image_url": {  
            "url": "https://upload.wikimedia.org/....jpg"  
          }  
        }  
      ]  
    }  
  ]  
}
```

# ITT via DIAL Attachments:

For Image To Text generation via DIAL Attachments you need:

Upload file to DIAL bucket:

[https://dialx.ai/dial\\_api#tag/Files/operation/uploadFile](https://dialx.ai/dial_api#tag/Files/operation/uploadFile)

When file is uploaded you will get response where will be present Attachment URL -> Copy it

Make request to LLM with “custom\_content” in message.  
You need to put Attachment (  
    type: file MIME type,  
    url: URL from response after has been uploaded)  
to “custom\_content” in message



# ITT via DIAL Attachments:

“content” in message is String

With “custom\_content” can be passed to LLM images for analysis

“attachmets” is array with objects that can hold the type of file and link to the file in DIAL bucket

DIAL bucket is special incapsulated storage, where user can upload file  
[https://dialx.ai/dial\\_api#tag/Files/operation/uploadFile](https://dialx.ai/dial_api#tag/Files/operation/uploadFile)

DIAL Core adapts the request according to Model Specification under the hood. So, you can provide attachment and work with any model that you want, and do not need to care about the adaptation request to Model Specification

```
{
  "messages": [
    {
      "role": "user",
      "content": "What is in this image?"
      "custom_content": {
        "attachments": [
          {
            "type": "image/png",
            "url": "files/.../picture.png"
          },
          {
            "title": "some description",
            "type": "image/jpeg",
            "url": "files/.../kitty.jpg"
          }
        ]
      }
    }
  ]
}
```



# Text To Image

## TTI

# TTI generation:

For Text To Image you need:

Make request to the model that can generate image:

- DALL-E-2
- DALL-E-3

In response you will get message with “custom\_content” and attachments with file MIME type and URL where it can be downloaded

Download it and save locally (or where needed).

[https://dialx.ai/dial\\_api#tag/Files/operation/downloadFile](https://dialx.ai/dial_api#tag/Files/operation/downloadFile)

# TTI generation:

Model: dall-e-3

[/openai/deployments/dall-e-3/chat/completions](#)

By default you need provide only prompt (content)

Also, you can configure output. You can do that via “custom\_fields” parameter:

*size:*

- 1024x1024
- 1024x1792
- 1792x1024

*style:*

natural (usual)  
vivid (super-real)

*quality:*

- standard
- hd

Pay attention that DIAL by default follows the OpenAI Specification. Since the parametrization of Image-Gen model out of OpenAI Spec, DIAL added “custom\_fields” with “configurations” to support parameters for other Models

```
{
  "messages": [
    {
      "role": "user",
      "content": "Generate smiling cat."
      "custom_fields": {
        "configuration": {
          "size": "1024x1024",
          "style": "vivid",
          "quality": "standard"
        }
      }
    }
  ]
}
```



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Thank you!