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Overview of AI services available in OMN

#IMAGE PROCESSING   **#IMAGE TAGGING**   **#TEXT GENERATION**   **#TEXT TRANSLATION**

IMAGES

#AI TAGGING

AI image tagging enriches content by automatically analysing and recognising image content. After uploading, relevant keywords are automatically assigned. It is also possible to recognise text on images using OCR (Optical Character Recognition).

Service	Description	Requirements/further information
Google Cloud Vision AI	Google Cloud Vision AI offers two main functions for image tagging: **AutoML Vision** and **Vision API**. AutoML Vision is used to train machine learning models so that users can classify images with custom labels, while Vision API recognises objects, faces and text, among other things.	The OMN integration works with Google Cloud Vision AI via an API. To use Google Cloud Vision AI services in the OMN context, a paid subscription must be purchased. **https://cloud.google.com/vision?hl=de#section-12**
Amazon Recognition	**Unleash the power of your images with Amazon Rekognition image analysis.** Automatically recognise objects, scenes and activities in your photos. Organise your image library, improve search accuracy and gain valuable insights from your visual data.	The OMN integration works seamlessly with Amazon Rekognition via its API, which requires an AWS account with access to the Amazon Rekognition API. https://docs.aws.amazon.com/rekognition/latest/dg/sdk-programmatic-access.html https://aws.amazon.com/de/rekognition/

Clarifai	Clarifai is a deep learning AI platform that offers, among other things, a computer vision service that enables the interpretation of video, image, text and audio data.	The OMN integration works with Clarifai via an API. To use Clarifai in the OMN context, a paid subscription must be purchased: https://www.clarifai.com/pricing Documentation on Clarifai and its API can be found here: https://docs.clarifai.com
Microsoft Computer Vision	MS Computer Vision is an AI service that analyses content in images and videos.	The OMN integration works with MS Computer Vision via an API. The API gives developers access to advanced algorithms for processing images and returning information. To use MS Computer Vision in the OMN context, a paid subscription must be purchased. All information about MS Computer Vision and the API can be found here. https://azure.microsoft.com/en-us/products/ai-foundry/tools/vision https://azure.microsoft.com/en-us/pricing/details/cognitive-services/computer-vision/ https://learn.microsoft.com/en-us/azure/ai-services/computer-vision/

Imagga	Imagga offers an AI-powered image tagging service that allows users to enrich images and videos with contextual tags to facilitate image search.	The OMN integration works with Imagga via an API. To use Imagga in the OMN context, a paid subscription must be purchased. All information about Imagga and its API can be found here. https://imagga.com https://imagga.com/pricing https://docs.imagga.com
Apollon Fashion (Pixyle)	Pixyle is an AI-powered automatic tagging solution that identifies product features in fashion images and generates comprehensive tags. The OMN integration works with Pixyle via an API. **Apollon Fashion (Pixyle)** specialises in fashion and recognises objects and their properties within OMN. Pixyle offers a dashboard that allows users to create collections, run a quick demo, and automatically build a comprehensive taxonomy. The Pixyle taxonomy is supported in the following languages: Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Polish, Spanish, Swedish, and more.	To use Pixyle in the OMN context, a paid subscription must be purchased. https://www.pixyle.ai https://www.pixyle.ai/solutions

Ximilar	Ximilar offers intelligent visual data processing based on computer vision and machine learning (SaaS), which makes it possible to train and deploy visual AI solutions – either based on ready-to-use services or customised to individual needs. Services include image categorisation, automatic tagging and object recognition.	The OMN integration works with Ximilar via an API. To use Ximilar in the OMN context, a paid subscription must be purchased. https://www.ximilar.com https://www.ximilar.com/pricing
Deep VA	DeepVA is an API-based service for visual data analysis that helps media companies extract information from images, videos and live streams. It offers AI solutions specifically for analysing images and videos. The software can recognise and classify faces, objects, scenes, emotions, text and more. In addition, DeepVA allows users to train, manage and use their own AI models . The software supports various data formats and use cases such as marketing, security, journalism, art and education.	https://docs.deepva.com https://www.youtube.com/@deepva759

IMAGES

#AI IMAGE PROCESSING SERVICES

AI Image goes beyond simple image editing. It is a powerful tool that automates both image processing and analysis using artificial intelligence.

- **Intelligent workflows:** Combine AI modules with intelligent components to create custom workflows for a variety of image tasks.
- **Effortless automation:** Automate time-consuming tasks such as cropping, skin retouching and background removal – all at the touch of a button.
- **Unlock image insights:** Use AI Image's analysis capabilities to extract information and gain a deeper understanding of your images.

Service	Description	Requirements/further information
AI Image Analysis ChatGPT	**ChatGPT, the innovative AI service from OpenAI, has expanded its capabilities.** While it continues to be a master at responding to your instructions and generating creative content, it can now also analyse images. **Discover a new world of insights:** • **Identify objects and scenes:** Upload an image and let ChatGPT tell you what it sees. • **Extract information:** Need details from an image? ChatGPT can help you extract text, recognise objects, and understand context. • **Gain deeper understanding:** ChatGPT can analyse the image and provide you with insights beyond the surface level	The OMN integration works with Chat GPT via an API.

AI Image – Dall-E Creation Services	**DALL-E is an AI system that can generate images from text descriptions, known as prompts.** It was developed by OpenAI and is based on a transformer model that processes both text and images as a sequence of tokens. DALL-E can combine different concepts, attributes and styles to create realistic or creative images. Further information and examples can be found on the official website. There are now several versions of DALL-E, and OMN supports the latest version called **DALL-E 3**. • **DALL-E 1** was released by OpenAI in January 2021 and can only generate simple images against a simple background. • **DALL-E 2,** released in April 2022, generates higher-resolution images compared to DALL-E 1, creates more complex or photorealistic scenes, and delivers better results overall. • **DALL-E 3**, released in August 2023, is the latest model and uses a larger and more balanced dataset that contains more diverse scenarios, delivering better, more detailed results. It interprets prompts more accurately and generates images that more closely match the text entered. In addition, DALL-E 3 can generate images with even higher resolution and strictly censors or prevents the creation of violent, hateful or adult content. **The DALL-E AI workflow for image generation can be configured in two ways:** 1. **Freestyle mode:** The workflow directly accepts text input from the user describing the image to be generated. 2. **Product-based start:** DALL-E generates an image based on the product attributes, name and category of the selected product.	https://openai.com/de-DE/index/dall-e-2 https://openai.com/de-DE/index/dall-e-3

AI Image Processing - AutoRetouch	**The AI Image Processing service autoRetouch is an AI-powered image editing platform. The OMN integration works with autoRetouch via an API.** Users can apply an autoRetouch workflow to images in OMN DAM. This is done by using a preconfigured workflow from the autoRetouch service. To use autoRetouch in the OMN context, a paid subscription must be purchased. Once you have successfully registered, autoRetouch workflows can be configured here. All information about the autoRetouch API can be found here. The output file format and file name can be controlled using the autoRetouch components **"Export"** and **"Edit Filename"**.	To use autoRetouch in the OMN context, a paid subscription must be purchased. All information about the autoRetouch API can be found here. https://docs.api.autoretouch.com The output file format and file name can be controlled using the autoRetouch components **"Export"** and **"Edit Filename"**. https://www.autoretouch.com
AI Image Processing – AutoRetouch Ghost Mannequin	The Ghost Mannequin service is an AI service from autoRetouch and performs a "ghosting" workflow on images in OMN DAM. This is done using the Ghost Mannequin workflow of the autoRetouch service.	No prior configuration is required on the autoRetouch side. https://www.autoretouch.com
AI Image Processing – Remove BG	The AI image processing service remove.bg is an AI service that works as an integration with the remove.bg API in OMN. Its task is to automatically remove the background from images in OMN DAM.	https://www.remove.bg/de To use remove.bg in the OMN context, a paid subscription must be purchased. https://www.remove.bg/pricing All information about the remove.bg API can be found here. https://www.remove.bg/tools-api

TEXT

#AI TEXT CREATION SERVICES

The NLG (Natural Language Generation) application creates emotional product texts from granular product information (attribute values) with high variance – fully automated via text rendering robots. The text robots deliver machine-generated and search engine optimised (SEO) product descriptions for a wide range of products from the PIM system.

Service	Description	Requirements/further information
ChatGPT	**ChatGPT is a generative AI service developed by OpenAI.** It can respond to various commands and retrieve information from the internet. It can also generate creative content such as poems, stories, product descriptions and much more.	Detailed information and prices can be found at: https://openai.com Since this workflow performs write operations on PIM attributes via the REST API, the OMN user executing this workflow must have an administrator role. API administrator roles are configured in the omn.eai.api.admin.roles property within the EAI Properties. The ChatGPT API is an interface that allows interaction with OpenAI's powerful GPT model. ChatGPT is not free for business use and requires a subscription. There are different pricing models for ChatGPT, depending on which features and models users want to use. Pricing is based on the number of tokens processed, which corresponds to approximately 750 words. For more information on ChatGPT pricing and features, please visit OpenAI's official website: https://openai.com/pricing

		To use the ChatGPT service within OMN, a user needs a valid ChatGPT API key (subscription) and the so-called ChatGPT organisation ID.
Conversionmaker NLG	**Conversionmaker.ai is AI-based software that generates creative, sophisticated and unique product descriptions and marketing texts from OMN product data in just a few seconds.** The tool uses a language model that has been trained with over a million texts. With Conversionmaker.ai, you can **increase** your **conversion rate**, **improve** your **SEO visibility** and **save** up to **90% of the time spent on text creation**. Conversionmaker currently supports **15 languages** and various text types such as **product descriptions, category texts, Amazon marketplace texts, blog and social media posts, and emails**. **The list of supported languages is as follows:** Bulgarian, Czech, Chinese, Danish, Dutch, English (UK + US), Estonian, Finnish, French, German (+ Austria & Switzerland), Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese (+BR), Romanian, Russian, Swedish, Slovak, Slovenian, Spanish, Turkish, Ukrainian. The languages can be adjusted by the providers, which may lead to discrepancies between the page and the languages actually supported. All languages can be viewed on this page: https://conversionmaker.ai/en/faq	Since this workflow performs write operations on PIM attributes via the REST API, the OMN user executing this workflow must have an administrator role. **API administrator roles are configured in the omn.eai.api.admin.roles property within the** EAI Properties**.** A subscription is required to use the service with OMN.

Neuroflash NLG	**Neuroflash is an AI text generator.** Since this workflow performs write operations on PIM attributes via the REST API, the OMN user executing this workflow must have an administrator role. API administrator roles are configured in the **omn.eai.api.admin.roles** property within the **EAI Properties**.	https://neuroflash.com
Retresco textengine.io	**Retresco textengine.io is a self-service platform for natural language generation (NLG) that enables users to generate individual texts independently.** It automatically transforms structured data into text.	https://www.retresco.de/en/text-automation Since this workflow performs write operations on PIM attributes via the REST API, the OMN user executing this workflow must have an administrator role. API administrator roles are configured in the omn.eai.api.admin.roles property within the **EAI Properties**.

TRANSLATION

#AI TRANSLATION SERVICES

AI Translate allows product information (including mass data) to be translated automatically and in real time.
Using artificial intelligence (AI), the translation is available to the user in the respective target language with just a few clicks.

OMN supports four directly integrated AI translation services and engines as standard: **Google, Microsoft, DeepL and SYSTRAN**.
If required, a different AI service can be used for each target language.

Service	Description	Requirements/further information
DeepL Translator	**DeepL is a machine translation service. The OMN integration works with DeepL via an API.** DeepL offers a free translator with some limited features, such as the translation of up to 5,000 characters, the translation of three locked documents per month and the use of 10 glossary entries. On the other hand, users can subscribe to the Pro version for a fee, which allows them to use additional features such as the translation of complete documents, websites, images and emails. **The list of supported languages is as follows:** Bulgarian, Chinese (traditional and simplified), Czech, Danish, Dutch, English (American and British), Estonian, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Latvian, Lithuanian, Norwegian (Bokmål), Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Swedish, Turkish, Ukrainian.	To use the DeepL translator in the OMN context, a paid **DeepL API Pro subscription** must be purchased. All information about DeepL API Pro can be found here. https://www.deepl.com/de/login https://www.deepl.com/de/pro#developer https://www.deepl.com/de/pro-api Since this workflow performs write operations on PIM attributes via the REST API, the OMN user executing this workflow must have an administrator role. API administrator roles are configured in the **omn.eai.api.admin.roles** property within the **EAI Properties**. All languages can be viewed on this page. The languages can be customised by the providers, which may result in discrepancies between the page and the languages actually supported.

DeepL Document Translation	**The DeepL document translator is a machine translation service that allows you to translate a document without affecting its formatting.** The OMN integration works with DeepL via an API. It is possible to translate a variety of document types, such as: • **PDF files** • **Word documents (.docx)** • **PowerPoint** • **Excel**	To use the DeepL translator in the OMN context, you must purchase a paid **DeepL API Pro subscription**. All information about DeepL API Pro can be found here. https://www.deepl.com/de/pro#developer https://www.deepl.com/de/pro-api
DeepL Glossary	**DeepL Glossary: Ensuring consistent translations** DeepL offers a glossary feature that helps you maintain consistent translations. Create a predefined list of terms and their corresponding translations, and DeepL will always use these translations whenever these terms appear. **Seamless integration with OMN glossaries** DeepL glossaries work seamlessly with OMN glossaries. You can continue to use your existing OMN glossaries and easily export them to DeepL when needed to translate them with DeepL's powerful AI engine.	https://www.deepl.com/de/features/glossary
DeepL Glossary Export	**Using your OMN glossaries in DeepL translations** To incorporate your existing OMN glossaries into DeepL's AI translations, you can easily export them to DeepL using the **AI DeepL Glossary Export Workflow**. This way, DeepL will use your predefined terms and translations during the automatic translation process.	**To use the DeepL translator and DeepL glossaries in the OMN context, a paid DeepL API Pro subscription must be purchased.** All information about DeepL API Pro can be found here. https://www.deepl.com/de/pro-api https://www.deepl.com/de/pro#developer

DeepL Glossary Deletion	**Using your OMN glossaries in DeepL translations** To incorporate your existing OMN glossaries into DeepL's AI translations, you can easily export them to DeepL using the **AI DeepL Glossary Export workflow**. This way, DeepL will use your predefined terms and translations during the automatic translation process.	To use the DeepL translator and DeepL glossaries in the OMN context, a paid DeepL API Pro subscription must be purchased. https://www.deepl.com/de/pro#developer All information about DeepL API Pro can be found here. https://www.deepl.com/de/pro-api
Google Cloud Translation	**Google Cloud Translation** is a machine translation service. The OMN integration works with Google via an API. https://docs.cloud.google.com/translate/docs/overview? Cloud Translation enables OMN to translate texts dynamically and programmatically via an API. Either a pre-trained or a custom machine learning model from Google is used for this purpose. Supported languages: https://docs.cloud.google.com/translate/docs/languages? The languages can be customised by the providers, which may lead to discrepancies between the page and the languages actually supported.	To use Google Cloud Translation in the OMN context, a paid subscription must be purchased. https://cloud.google.com/translate/pricing?hl=de#prices_per_month Further information on the **Translation API** and **Translation AI** in general can be found here. https://cloud.google.com/translate? Since this workflow uses write operations on PIM attributes via the REST API, the OMN user executing this workflow must have an administrator role. API administrator roles are configured in the **omn.eai.api.admin.roles** property in the EAI Properties.

Microsoft Translator	**Microsoft Translator** is a machine translation service. https://azure.microsoft.com/en-us/products/ai-foundry/tools/translator#overview Microsoft Translator is a proven, customisable and scalable machine translation technology based on industry-standard REST technology. Supported languages: https://learn.microsoft.com/en-us/azure/ai-services/translator/language-support	The OMN integration works with Microsoft via an API. Further information on text translation and the API can be found here: https://www.microsoft.com/en-us/translator/business/translator-api/ To use Microsoft Translator in the OMN context, a paid subscription must be purchased. https://azure.microsoft.com/en-us/pricing/details/cognitive-services/translator/
SYSTRAN Translate	**SYSTRAN Translate** is a machine translation service. The OMN integration works with SYSTRAN via an API. https://www.systransoft.com/lp/free-online-translation/ The free version of SYSTRAN Translate allows users to translate any text, web page, file or RSS feed into the desired language in real time. https://www.systransoft.com There is also a **Translate** PRO version, which offers numerous advantages, such as unlimited text translations. The PRO version is available as a paid subscription.	To use the SYSTRAN Translate service in the OMN context, a paid SYSTRAN subscription (Growth) must be purchased. https://www.systransoft.com/pricing/translate-pro All information about **the SYSTRAN Translate API** can be found here.https://www.systransoft.com/translation-products/translate-api

| | The list of supported languages is as follows:
Albanian, Arabic, Bengali, Bulgarian, Burmese, Catalan, Chinese, Chinese (traditional), Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hebrew, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Latvian, Lithuanian, Malay, Norwegian, Pashto, Persian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Tagalog, Tamil, Thai, Turkish, Ukrainian, Urdu, Vietnamese. | |