Datasheet

Chromatography On Demand
- AlphaCOD -

AlphaCOD

A Fujitsu AI solution to detect chemical traces in samples.

Note: *The information in this datasheet might be superseded by the online version available on* [online AlphaCOD Datasheet](#).

Introduction

The Fujitsu **Chromatography On Demand** solution – **Alpha**COD – is designed to assist laboratories' technicians in detecting chemical traces in samples, like pesticide in food or in water, dioxins in air, steroids in blood or in plasma, etc. Typical customers are analytical chemistry laboratories using mass spectrometry and chromatography systems.

AlphaCOD solution provides faster and more accurate chromatography analysis using an AI cloud service. It enhances greatly the efficiency and capabilities of chemical compound profiling for more effective decision-making and lower cost in multiple fields, like agri-food, environmental monitoring, healthcare, research.

Challenges
Analyzing food, biological or product samples is essential to isolate contaminants or establish composition. Moreover, trace detection is escalating rapidly, driven by consumer choice and organic farming, medicines, and regulations. However, current processes are manually intensive and fallible. In addition, laboratories are facing limited availability of skilled personnel and difficult mobility between the chromatography' solutions.

Solution
AlphaCOD solution automates chromatography sample analysis by using an AI assistant that is trained on several hundreds of thousand samples to automatically categorise the traces into detected or not detected. Integrated with a laboratory ERP platform it brings data analytics closer to business operations.

Outcomes
Samples can be processed much faster. **Alpha**COD AI Assistant eliminates human error by removing manual operations. The intuitive and familiar interface available within **Alpha**COD makes it easy to use. Extensible, adaptable, and integrated approach enables digital transformation of laboratories.

Scope of the Solution

AlphaCOD is a Software as a Service (SaaS) solution. **Alpha**COD AI Assistant is priced by number of tokens that are processed by the laboratory each year.
Two offerings are available to meet the needs. Both offerings include all **Alpha**COD updates and associated support (9x5) for 1 year.

Premium offering
AlphaCOD Premium offering includes the solution usage for:

- 10 users
- Automatic data ingestion for 1 laboratory
- Unlimited Scanners
- Pay per use **Alpha**COD AI Assistant

Platinum offering
On top of the Premium features, **Alpha**COD Platinum offering includes the solution usage for:

- Unlimited Users
- Unlimited Laboratories
- Connectors with local SI
- Possibility to on-premises installation

Token Packs
The laboratory buys one or several **Packs** of tokens to match the volume of analysis from the Chromatograph that will be processed by **Alpha**COD AI Assistant for 1 year. Seven different Token Packs are available for each offering:
- 5k Pack: to treat 5 000 analyses with **Alpha**COD AI Assistant for 1 year.
- 10k Pack: to treat 10 000 analyses with **Alpha**COD AI Assistant for 1 year.
- 25k Pack: to treat 25 000 analyses with **Alpha**COD AI Assistant for 1 year.
- 50k Pack: to treat 50 000 analyses with **Alpha**COD AI Assistant for 1 year.
- 100k Pack: to treat 100 000 analyses with **Alpha**COD AI Assistant for 1 year.
- 200k Pack: to treat 200 000 analyses with **Alpha**COD AI Assistant for 1 year.
- 400k Pack: to treat 400 000 analyses with **Alpha**COD AI Assistant for 1 year.

At the end of each Pack it is possible to easily prolongue the existing Pack if needed for another year!

Solution in Detail

Content of the Solution:
The solution contains different components including the Fujitsu AI Assistant that will analyse the raw data which is produced by Customer's Chromatograph. The automated AI analysis by the Fujitsu AI Assistant will generate a comprehensive webbased interactive report supporting the lab-technician in his daily work.

Solution Options:
Several options are available when the laboratory is interested in **Alpha**COD solution:
- Activate the Right to Use if this is the first time to use **Alpha**COD solution.
- Buy one or several Packs of tokens that can be treated by **Alpha**COD AI Assistant in 1 year.

	Premium	Platinum
Cloud	Yes	Yes
On-Premise	No	Yes
#Labs	1	Unlimited
#Users	10	Unlimited
#Devices	Unlimited	Unlimited
AI-Assistant	Yes	Yes
Multi-Readers	Yes	Yes
Full automation	Yes	Yes
Token Transfer	Yes (20%)	Yes (20%)
Support SLA 9x5	Yes	Yes
Updates	Yes	Yes
Connectors	No	Yes

AlphaCOD Right to Use
If the laboratory is a first-time customer for **Alpha**COD solution, the laboratory will need and activate the **Alpha**COD Right to Use. The Right to Use is a separate document that the customer will receive and contains the customer's official **Alpha**COD Premium or Platinum serialnumber. This activation will trigger the setup of a private and secure instance of **Alpha**COD Cloud platform, dedicated to the laboratory's information. This private and secure instance is used to store noncritical information *(see also section Data gathering and SaaS compliancy)* during the duration of the contract and the processing of the analysis data.

AlphaCOD Premium Offering
AlphaCOD Premium offering includes:
10 users: 10 concurrent laboratories' technicians can connect and work simultaneously in the Graphical User Interface available in **Alpha**COD solution.
Automatic data ingestion for 1 laboratory: 1 laboratory (one logical site) can use automatic data ingestion available in **Alpha**COD solution. In practice, there is one Fujitsu COD Drive component (small Python agent produced by Fujitsu) installed on 1 laboratory server which will automatically read the raw data file of the scanners when they are produced and send them to **Alpha**COD solution for interpretation by **Alpha**COD AI Assistant.
Unlimited Scanners: **Alpha**COD solution can ingest files from unlimited number of scanners, through Fujitsu COD Drive component. This implies Fujitsu COD Drive must have read access to the raw data files that are produced by these scanners. This is typically achieved using a Network Attached Server (NAS) disk, shared by all the scanners to store the raw analysis data file.
Pay per use **AlphaCOD AI Assistant**: This is the key component of **Alpha**COD solution. **Alpha**COD AI Assistant interprets the raw data from the laboratory analysis, compute information for each molecule like the RT, RRT, SNR, LOQ, Ion's ratios, etc… With all computed information, **Alpha**COD AI Assistant automatically categorize the molecules into detected or not detected, using **Alpha**COD AI model trained on several hundreds of thousand samples. **Alpha**COD AI Assistant is running in Fujitsu Cloud platform, to leverage the latest Fujitsu AI servers for optimal performance.

AlphaCOD Platinum Offering
On top of the Premium features, **Alpha**COD Platinum offering includes:
Unlimited Users: unlimited concurrent laboratories' technicians can connect and work simultaneously in the Graphical User Interface available in **Alpha**COD solution.
Unlimited Laboratories: unlimited laboratories or departments or production lines can use automatic data ingestion available in **Alpha**COD solution. In practice, there is a Fujitsu COD Drive component (small Python agent produced by Fujitsu) installed on the laboratory servers which will automatically read the raw data file of the scanners when they are produced and send them to **Alpha**COD solution for interpretation by **Alpha**COD AI Assistant.
Connectors with local SI: **Alpha**COD solution can be connected to the existing Laboratory Information Management Systems (LIMS) to export analysis meta information before the automatic treatment by **Alpha**COD AI Assistant, and possibly import results and generated reports into the LIMS at the end of the treatment. All connectors developed specifically for the laboratory, if any, are maintained by Fujitsu during the time of the contract.
Possibility to on-premises installation: Platinum offering opens the possibility to install **Alpha**COD solution on premises, on one server or virtual machine of the laboratory. *(see also Prerequisites)*

AlphaCOD Token Packs
A Token Pack ("Token Pack" or "Pack") provides a certain amount of tokens to be processed by the AI Assistant.
A token is one examination done by the Fujitsu AI Assistant. For example, examining one sample on Mycotoxins (detected or not) would consume one token.

There are 7 Token Packs available for both Premium and Platinum offerings. All the 7 Packs can be combined to buy the appropriate volume of tokens that will be processed by **Alpha**COD AI Assistant for 1 year.

- 5k Pack: to treat 5 000 analyses with **Alpha**COD AI Assistant for 1 year.
- 10k Pack: to treat 10 000 analyses with **Alpha**COD AI Assistant for 1 year.
- 25k Pack: to treat 25 000 analyses with **Alpha**COD AI Assistant for 1 year.
- 50k Pack: to treat 50 000 analyses with **Alpha**COD AI Assistant for 1 year.
- 100k Pack: to treat 100 000 analyses with **Alpha**COD AI Assistant for 1 year.
- 200k Pack: to treat 200 000 analyses with **Alpha**COD AI Assistant for 1 year.
- 400k Pack: to treat 400 000 analyses with **Alpha**COD AI Assistant for 1 year.

The Pack schema allows the laboratory to start small in using **Alpha**COD solution and grow or adapt the volume of analysis from the Chromatograph that are treated by **Alpha**COD AI Assistant when needed.

To get a better price per token, it is more interesting to buy a greater number of tokens.

If the number of tokens bought is processed before 1 year, the laboratory can buy additional Packs for 1 year. The renewal of the Packs is at the anniversary of the latest order.

The start and end date of each Pack is triggered by the customer online activation on the Fujitsu Portal and will remain activated during 1 year from activation date of that Pack.

If the number of tokens bought is not used during the 1-year period, maximum 20% of the total amount of bought tokens can be transferred for up to one year, limited to the expiry of last active Pack.

Each Pack requires an activation by the laboratory to trigger the 1-year usage and support term.

At the end of each Pack it is also possible to easily prolongue the existing Pack if needed for another year!

Solution Support

AlphaCOD solution includes standard support schema.

If laboratory's technician faces an issue while using **Alpha**COD solution, he/she may call Fujitsu hotline (L1 support), available during local business hours. Fujitsu hotline will gather all information requested for the case investigation by Fujitsu L2 and L3 support. Workarounds to solve the problem might be proposed to the laboratory.

AlphaCOD L2 and L3 support is carried out by Fujitsu Professional Support Engineers during business hours in France. The response time is on a best effort basis. Normally, the expected response time is within 1 French business day.

The start and end date of the Support of each Pack is triggered automatically by the customers online activation of each **Alpha**COD Token Pack on the Fujitsu Portal and will remain activated for 1 year from the activation date of that Pack.

All support will be remote support.

Travel Expenses

Travel cost is not included in the **Alpha**COD solution. In case local support or maintenance activity is needed such local service must be requested and ordered by the customer based on an individual offer of Fujitsu.   (Daily service rates, travel costs / flights, hotel, ...).

Example

For a **new** customer that needs 150.000 Premium tokens to cover the first year, the laboratory needs:

- 1 x Right to Use
- 1 x 100k Token Pack Premium
- 1 x 50k Token Pack Premium

For an existing customer that needs 150.000 Premium tokens each year the laboratory needs:

- 1 x 100k Prolongation Token Pack Premium
- 1 x 50k Prolongation Token Pack Premium

For an existing customer that needs 150.000 Premium tokens renewed and have 25.000 extra Tokens the first time the laboratory needs:

- 1 x 100k Prolongation Token Pack Premium
- 1 x 50k Prolongation Token Pack Premium
- 1 x 25k Token Pack Premium

Product Codes

Order codes

Fujitsu AlphaCOD – Chromatography On Demand

Premium
ALPHA-COD PREMIUM *(Alpha*COD *Right to Use Premium)*

FSP:G-SW12660PRCOD *(Alpha*COD *- Premium 5k Pack - 1Y)*
FSP:G-SW12C60PRCOD *(Alpha*COD *- Premium 10k Pack - 1Y)*
FSP:G-SW12G60PRCOD *(Alpha*COD *- Premium 25k Pack - 1Y)*
FSP:G-SW13560PRCOD *(Alpha*COD *- Premium 50k Pack - 1Y)*
FSP:G-SW13960PRCOD *(Alpha*COD *- Premium 100k Pack - 1Y)*
FSP:G-SW13N60PRCOD *(Alpha*COD *- Premium 200k Pack - 1Y)*
FSP:G-SW13Q60PRCOD *(Alpha*COD *- Premium 400k Pack - 1Y)*

Platinum
ALPHA-COD PLATINUM *(Alpha*COD *Right to Use Platinum)*

FSP:G-SW13S60PRCOD *(Alpha*COD *- Platinum 5k Pack - 1Y)*
FSP:G-SW13T60PRCOD *(Alpha*COD *- Platinum 10k Pack - 1Y)*
FSP:G-SW13U60PRCOD *(Alpha*COD *- Platinum 25k Pack - 1Y)*
FSP:G-SW13V60PRCOD *(Alpha*COD *- Platinum 50k Pack - 1Y)*
FSP:G-SW13Y60PRCOD *(Alpha*COD *- Platinum 100k Pack - 1Y)*
FSP:G-SW13Z60PRCOD *(Alpha*COD *- Platinum 200k Pack - 1Y)*
FSP:G-SW14260PRCOD *(Alpha*COD *- Platinum 400k Pack - 1Y)*

Prolongation Order codes
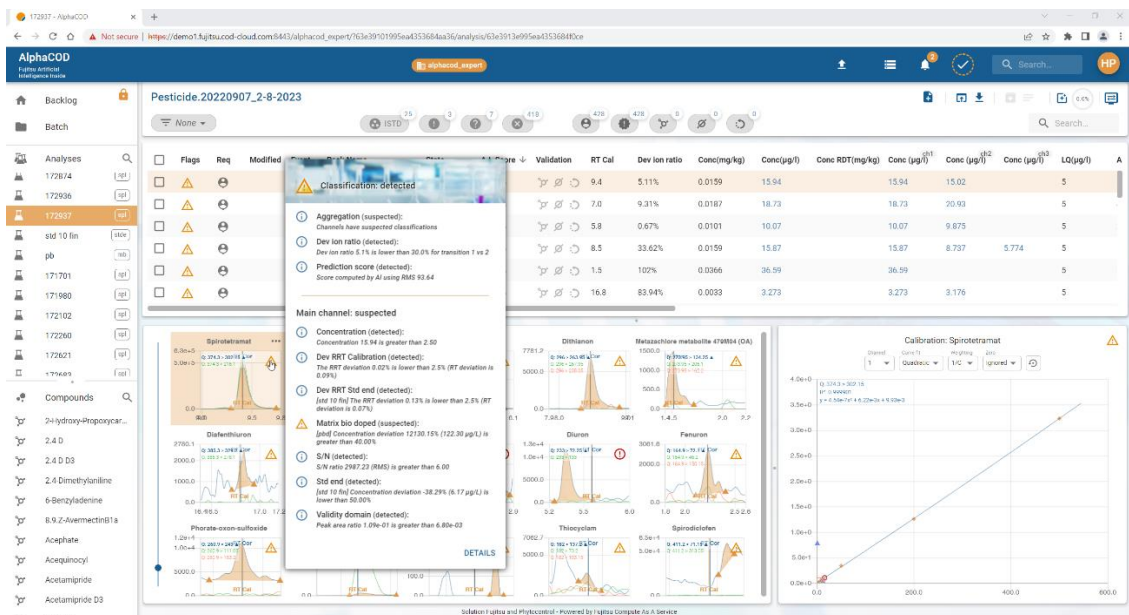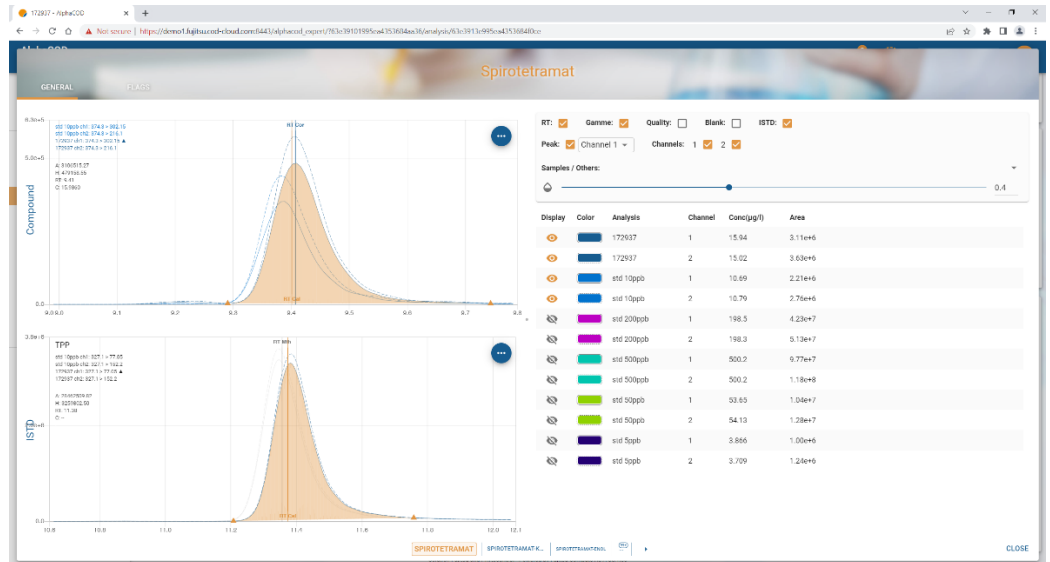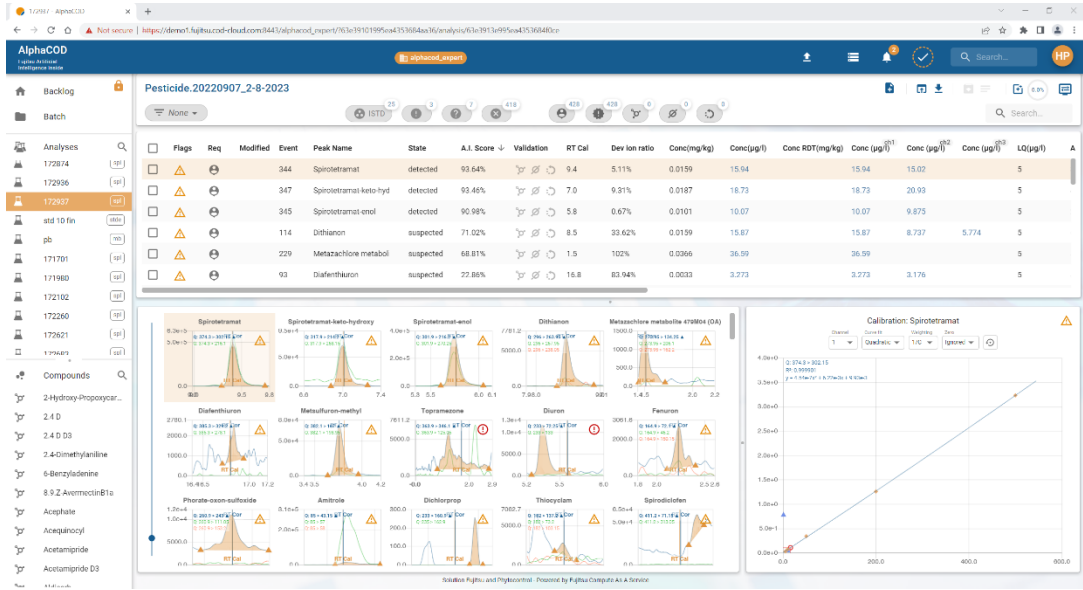
Fujitsu AlphaCOD – Chromatography On Demand

Premium
FSP:G-SWT2660PRCOD *(Alpha*COD *- Premium 5k Pack - 1Y)*
FSP:G-SWT2C60PRCOD *(Alpha*COD *- Premium 10k Pack - 1Y)*
FSP:G-SWT2G60PRCOD *(Alpha*COD *- Premium 25k Pack - 1Y)*
FSP:G-SWT3560PRCOD *(Alpha*COD *- Premium 50k Pack - 1Y)*
FSP:G-SWT3960PRCOD *(Alpha*COD *- Premium 100k Pack - 1Y)*
FSP:G-SWT3N60PRCOD *(Alpha*COD *- Premium 200k Pack - 1Y)*
FSP:G-SWT3Q60PRCOD *(Alpha*COD *- Premium 400k Pack - 1Y)*

Platinum
FSP:G-SWT3S60PRCOD *(Alpha*COD *- Platinum 5k Pack - 1Y)*
FSP:G-SWT3T60PRCOD *(Alpha*COD *- Platinum 10k Pack - 1Y)*
FSP:G-SWT3U60PRCOD *(Alpha*COD *- Platinum 25k Pack - 1Y)*
FSP:G-SWT3V60PRCOD *(Alpha*COD *- Platinum 50k Pack - 1Y)*
FSP:G-SWT3Y60PRCOD *(Alpha*COD *- Platinum 100k Pack - 1Y)*
FSP:G-SWT3Z60PRCOD *(Alpha*COD *- Platinum 200k Pack - 1Y)*
FSP:G-SWT4260PRCOD *(Alpha*COD *- Platinum 400k Pack - 1Y)*

Solution Screenshots

Prerequisites

Note: *The information shows the Prerequisites at a certain point in time. These Prerequisites will be updated from time to time. The latest valid Prerequisites are online available on* online AlphaCOD Datasheet.

AlphaCOD solution includes a local deployment of Fujitsu COD-Drive agent to enable the automation of the data ingestion. The integration of the solution in laboratory IT requires:

- Read access to chromatograph's files.
- API access to Fujitsu AI model: https://ai.fujitsu.cod-cloud.com/api
- Write access to laboratory backup area.

When Fujitsu **Alpha**COD is installed on-premises, the following minimal platform server requirements are mandatory:

- Rocky Linux (centos 8.x)
- 8+ cores
- 32+ GiB memory
- 1+ TB RAID storage

The backup, maintenance and updates of the Operating System (OS) of the on premises **Alpha**COD solution are within the responsibility of the customer.

List of supported chromatograph scanners and analysis types:

Shimadzu
- Type: Chromatography/Mass Spectrometry
- Format: *.lcd (LabSolutions Data File)

Bruker
- Type: Mass Spectrometry
- Format: *.xms, *.sqlitefiles in *.d folders

Waters
- Type: Chromatography/Mass Spectrometry
- Format: *.raw folders (MassLynx Data File)

Agilent
- Type: Chromatography/Mass Spectrometry
- Format: *.D (ChemStation Data File)

Jeol
- Type: Mass Spectrometry
- Format: *.bin files in *.JQD folders

Thermo Fisher
- Type: Mass Spectrometry
- Format: *.raw (Xcalibur Data File)

Sciex
- Type: Mass Spectrometry

- Format: *.wiff (Analyst Data File)

Note: *the list of supported chromatograph scanners and analysis types can evolve during the life of **AlphaCOD** solution. The latest valid list is available online on* online AlphaCOD Datasheet.

AlphaCOD solution works **only** for chromatographs scanners and analysis types listed in the Prerequisites. Any other chromatographs or type of analysis are excluded from **Alpha**COD solution.

Data gathering and SaaS compliancy

The Data gathered as part of **Alpha**COD solution will be sent to the Fujitsu **Alpha**COD Cloud Platform. Please review and confirm company policies for SaaS connectivity and Data gathering: more information can be found here: Fujitsu Cloud Data Security

After the end of the contract, all **Alpha**COD Cloud instances provisioned for the laboratory will be deprovisioned by Fujitsu according to: Customer deprovisionning

Scope of Solution Location

AlphaCOD solution is **only** available remotely in the EMEA countries where local AlphaCOD T&C's have been applied! Please check the next section "Legal Information / General Terms and Conditions" to see if your country applies.

(see also Travel Expenses on possible additional costs)

Legal Information / General Terms and Conditions

In addition to this datasheet, which includes a final list of the features of the services, the general business terms and conditions of the respective local Fujitsu entity for the performance of the services in its respective local version shall apply.
Please refer to: Terms and Conditions

More information

Fujitsu products, solutions & services

Fujitsu Portfolio

Built on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offerings. This allows customers to select from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products

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Software

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More information

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www.fujitsu.com

Fujitsu green policy

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.

Using our global know-how, Fujitsu aims to contribute to the creation of a sustainable environment for future generations through IT.

Please find further information at http://www.fujitsu.com/global/about/environment

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