



- Make all data from non Agilent OL instruments (third-party instruments, software, and data systems) fully indexed and searchable in Agilent OL.
- Conduct focused database queries across different types of data and different project locations.
- Flexibly and easily re-key all meta-data for third-party instruments and data systems.

Figure 1. Automated Extraction Services are software options for Agilent OL that can extract specific metadata for specific instruments and data systems. This enables non Agilent OL -controlled systems to integrate in the laboratory framework and have all their information protected and fully searchable under Agilent OL's powerful content management capabilities.

Manage All Instrument Data with Agilent OL

The unique Agilent OL, Operating System for the Laboratory, provides powerful content management of all data and results from laboratory instruments. All electronic content from instruments becomes fully protected and secured in Agilent OL's content management system. Instruments controlled by Agilent OL use instrument control software technology that has been used in laboratories around the world for over 15 years supporting over 300 different instruments. However, other laboratory instruments that are not directly controlled by Agilent OL or separate data systems may still integrate into the Agilent OL operating system and have their electronic content also fully managed and controlled by Agilent OL.

One of the mechanisms available for “non-Agilent OL controlled” systems to take advantage of the operating system is through Agilent OL’s Automated Extraction Services



which extract key information directly from the resulting data and make it fully searchable using Agilent OL's powerful content management technologies. AES is just one way in Agilent OL to deal with these instruments and data – several other solutions are also available. This data sheet will discuss Agilent OL's AES technology and other data sheets will describe these additional solutions.

Make All Laboratory Content Fully Searchable

Automated Extraction Services are developed by Agilent Technologies, to support a specific application or data system. Based on Agilent's strong partnerships with instrument hardware manufacturers and data system vendors, these AES programmatically extract meta-data directly from the supported file type as the file is placed in the Agilent OL content repository. Agilent OL's content management features can then enable all such information to be fully searchable and protected.

Some file management software can search and retrieve information based on document properties such as file names or creation date. Agilent's AES technology, however, allows the user to do much more focused queries with the extraction of meta-data. The meta-data extracted with the AES technology is used to conduct data searches across all the ChemStation data, for example, to find those runs where "phenol" concentration falls within a particular range. The same extracted metadata can be normalized to search not only all ChemStation data, but also all Turbochrom data and Empower Data – even data generated by other techniques such as mass spectroscopy or NMR where the "phenol" concentration falls within a particular range. Agilent OL's powerful searching capability can easily find all matching files and retrieve them for safe access.

Flexibly Change the AES Filter

Some content management systems associate meta-data with the files they store, the information of interest must be decided at system installation time, which is very impractical in a laboratory application. Suppose you begin using a filter to extract one or two metadata keys and over time collect many records. You might, for example, start collecting Agilent ChemStation data when the AES extracted metadata of interest was simply sample name and peak concentration. After accumulating a great deal of data, suppose you determine that you should have extracted additional information with the filter? Suppose you realize that you would want to also have filtered the peak area, height, and baseline events? In the case of Agilent OL's AES, the flexible and powerful "re-keying" feature lets you simply select the additional information of interest, and perform a background "re-keying" or re-extraction of metadata. Agilent OL automatically extracts the new metadata from all the previously handled data.

Utilize Only the AES You Need

Automated Extraction Services are provided as optional software plug-ins for the Agilent OL application so only the pertinent AES packages need be ordered. AES packages process data for their target system on the Agilent OL server, so operate independent of the number of systems generating data. For example, in a laboratory that has five Sciex MS systems and three Waters Millennium data systems, only one AES for the Sciex Analyst and one AES for the Waters Millennium are needed.

These optional AES packages are one way a laboratory can use the Agilent OL operating system for all their instrument/data system content.

Ordering Information

Optional Automated Extraction Services for Agilent OL can be ordered for the particular instrument/third party data system. An AES is a server side component in the Agilent OL operating system, independent of the number of actual instruments/data systems it is supporting.

New AES are developed and released by Agilent on a regular basis. For the most current listing of available AES, please check the Agilent web site.

Agilent OL Automated Extraction Service Types

ACD/HPLC, MS, NMR, UV-IR (all versions)
Adobe® PDF (versions 4.05 – 6.0)
Agilent ChemStation® (all versions)
Agilent ChemStore™ (all versions)
Agilent EZChrom *Elite*™ (versions 2.0 and above)
Beckman 32 Karat™ (up to version 7.0)
BioSpin XWIN-NMR™ (all versions)
Bitmap (.bmp) Files
General Files
GIF Files
JCAMP-DX IR Files, MS Files, & NMR Files
Metrohm TiNet (version 5)
Microsoft® Office (all versions)
PCX Files
PerkinElmer ACCESS*CHROM™ (all versions)
PerkinElmer Sciex™ Analyst® 1.1, 1.2, 1.3, 1.4
PerkinElmerTotalChrom™ (version 6.2)
PerkinElmer TurboChrom™ (version 6.1)
Shimadzu Class-VP™ (versions up to 7.2)
Thermo Electron ChromQuest™ (versions up to 4.1)
Thermo Electron Xcalibur® (up to version 1.4)
Varian Galaxie™ (all versions)
Varian Saturn® MS (version 5.41 to 5.51)
Waters MassLynx™ (version 3.5)
Waters Millennium®32 (version 3.2, 4.0, 5.0)

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