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Release Notes

Chromeleon 7 Chromatography Data System

Software Version CM 7.3 PA OPC • August 2020

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Release History

Revision	Date	Comment
1	August 2020	Initial Product Release

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Table of Contents

1	Introduction.....	4
2	Other Documentation.....	5
3	What’s New in Chromeleon 7.3 PA OPC	6
3.1	Chromeleon 7 Process Analyzer OPC [50919]	6
3.2	Client Inactivity Timeout [53818]	6
4	Resolved Issues.....	7
5	Limitations and Known Issues.....	8
5.1	Functional Differences between Chromeleon 7 Process Analyzer and Chromeleon 6 Process Analyzer	8
6	Backward/Forward Compatibility	9
6.1	Chromeleon Enterprise Compatibility between Chromeleon 7.2 and Chromeleon 7.3 ..	9
7	Appendix.....	10
7.1	Release Notes.....	10
7.2	Online Help.....	10

1 Introduction

Chromeleon 7 Process Analyzer (PA) is a client/server-based chromatography management system that provides software control of Dionex Integral Process Analytical Systems. It is typically intended for use in industrial applications, including pharmaceuticals and biopharmaceuticals, power, semiconductor, environmental, chemical and petrochemical markets, and the food/beverage/agriculture environments.

Chromeleon 7 PA is an application built on the foundation of Chromeleon 7 Chromatography Data System (CDS) software. It adds process monitoring functions to Chromeleon's existing chromatography functions, including sample stream selection, sample preparation and analysis, and alarm and conditional response configuration.

Chromeleon 7 PA inherits most of the functionality of the original Chromeleon Process Analyzer based on Chromeleon 6.8. It is designed for a smooth transition from that platform and has an easily recognizable user interface. Being based on Chromeleon 7 CDS, it provides the following improvements over the Chromeleon 6.8 version:

- Chromeleon 7 compliance tools to allow use in regulatory environments.
- Chromeleon 7 networking, which allows for configuration of remote analyzers.
- A new, dedicated Windows service that eliminates the need for the creation of a generic user to keep an analyzer running when the client is closed.

With this release, a new feature set has been added to Chromeleon 7 PA, called Chromeleon 7 Process Analyzer Open Platform Communications (OPC). It is based on the industry-accepted set of OPC standards and allows Chromeleon 7 PA to transmit data to distributed control systems and other OPC-based software and allows for limited control of Chromeleon 7 PA itself.

2 Other Documentation

Chromeleon 7.3 Process Analyzer OPC is provided with a setup guide that will help you to configure the software. This document, Setup Guide - Chromeleon 7 PA and OPC.pdf, can be found in electronic form on the installation disk in the Documents folder.

Because Chromeleon 7 PA OPC is used in conjunction with Chromeleon 7 CDS, several other documents are also included in that folder to help you configure and learn more about Chromeleon 7 CDS.

Please refer to the Chromeleon 7 CDS Installation Guide for information regarding:

- System Requirements
- Supported Operating Systems and Databases
- Required Third-Party Software
- Compatibility with Previous Versions
- Installing and configuring the Chromeleon software

3 What's New in Chromeleon 7.3 PA OPC

The Chromeleon 7.3 PA OPC release adds OPC functionality to Chromeleon 7 Process Analyzer to allow for better integration with manufacturing and production environments.

3.1 Chromeleon 7 Process Analyzer OPC [50919]

Chromeleon Process Analyzer OPC is a feature that adds extended functionality to Chromeleon 7 PA and allows for broader connectivity with other software based on the OPC standards.

OPC provides access to the various tags associated with Chromeleon 7 PA to be used in such software for monitoring and analysis. It also provides limited control of Chromeleon 7 PA.

3.2 Client Inactivity Timeout [53818]

When the inactivity policy is enabled in the Chromeleon 7 CDS Administration Console, the Chromeleon 7 PA client will now close after the time specified for that policy.

4 Resolved Issues

This chapter describes issues that have been resolved with the release of Chromeleon 7.3 PA OPC. If you require information about the status of an issue observed in Chromeleon 7.3 or a Chromeleon CDS release that is not listed here, please contact your local Thermo Fisher Scientific representative for more information.

The number in the first column of the table below refers to the Thermo Fisher Scientific tracking ID.

ID	Description
138491	Process Analyzer: If the analyzer instrument did not have a stream selector and multiple streams were configured, the instrument method override configuration would not be applied correctly when the sequence was generated.
142489	Process Analyzer: When a sequence template was edited and Chromeleon 7 PA was closed, no warning dialog would be shown, and the changes would be lost.

5 Limitations and Known Issues

The following section lists known issues and limitations. The number in the first column of the table below refers to the Thermo Fisher Scientific tracking IDs.

ID	Description
143635	<p>Process Analyzer with OPC: An exception error can occur in an Enterprise environment where the Chromeleon Domain Controller is running Chromeleon 7.3 PA-OPC or later and some (but not all) client PCs are still running Chromeleon 7.3. In this environment, if a logged in user closes a later version Process Analyzer client with the OPC category selected, and subsequently logs into a 7.3 Process Analyzer client, then an exception error will be generated.</p> <p>The proper solution is to upgrade all client PCs to the same version of Chromeleon as the Chromeleon Domain Controller. In the short term, the user should reconnect using a later version Process Analyzer client and select a different category</p>
148566	<p>Process Analyzer with OPC: After downgrading from the Chromeleon 7.3 PA OPC release to Chromeleon 7.3, Chromeleon 7 Process Analyzer will crash if the OPC category was selected before the downgrade.</p>
148992	<p>Process Analyzer: Bypassing all streams after an alarm will leave the analyzer in a running state.</p>

5.1 Functional Differences between Chromeleon 7 Process Analyzer and Chromeleon 6 Process Analyzer

Chromeleon 7 PA and Chromeleon 7 PA OPC implement the vast majority of Chromeleon 6.8 PA features, and in general, have a richer feature set, including improved security and networking. However, a few Chromeleon 6.8 features remain to be implemented on the Chromeleon 7 platform and a few will never be implemented, since they are now obsolete or no longer relevant.

There are currently three features not included in the initial Chromeleon 7 PA or this release:

For Chromeleon 7 PA:

- The Trending user interface
- Scheduled reporting
- Report export

For Chromeleon 7 PA OPC:

- An OPC client – Other OPC clients are readily downloadable or a part of the software to which Chromeleon 7 PA OPC will be connecting.

If a particular missing feature is important to you, please contact your local Thermo Fisher Scientific representative to find out if that feature is in the product development plans.

6 Backward/Forward Compatibility

6.1 Chromeleon Enterprise Compatibility between Chromeleon 7.2 and Chromeleon 7.3

Chromeleon 7.3 is not compatible with Chromeleon 7.2 in networked environments. This holds true for Chromeleon 7 PA and OPC as well and means that either the Chromeleon domain controller and the rest of the domain must first be upgraded to 7.3 or Chromeleon 7 PA needs to be run in its own domain.

If you have any questions or concerns, please contact your local Chromeleon support channel.

7 Appendix

This chapter contains general information about Service Releases, Release Notes, Online Help, and Contributed Content.

7.1 Release Notes

The Release Notes list the new features, improvements and known limitations of the current release Chromeleon 7.3 PA OPC. Included are also bug fixes for the initial Chromeleon 7 PA release, part of Chromeleon 7.3. For details about Chromeleon 7.3 and other previous releases, refer to the relevant release notes which can be found on the Chromeleon 7.3 DVD.

7.2 Online Help

In general, new features, updates and drivers that are introduced with this release are described in an updated Online Help that is distributed with the release.

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