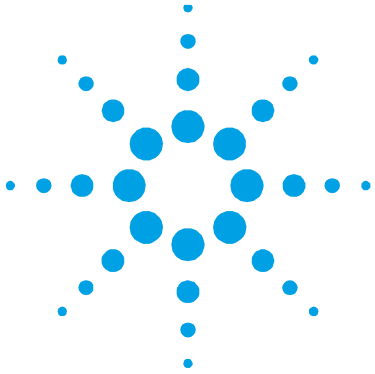

Sample Scheduler for OpenLab

Guide for former **Sample Scheduler for EZChrom Edition** User

Agilent Technologies

Notices

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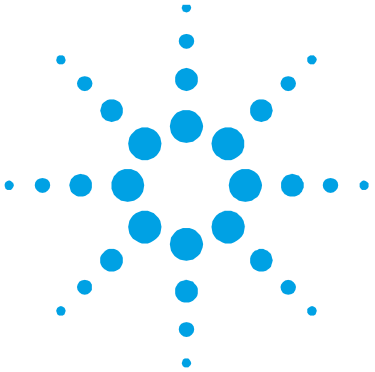
Sample Scheduler for OpenLab was designed to work with two Agilent Chromatography Data Systems: OpenLab CDS and OpenLab CDS EZChrom Edition. Some features or behaviors of the Sample Scheduler software differ depending on your CDS. This document details the differences between Sample Scheduler for OpenLab and Sample Scheduler for OpenLab CDS EZChrom Edition:

- the XML commands
- the SQL query

In the following two chapters Sample Scheduler for OpenLab CDS EZChrom Edition is abbreviated by Sample Scheduler for EZChrom Edition.



1. XML Commands

The XML scheme for Sample Scheduler for OpenLab has changed compared to the XML scheme for Sample Scheduler for EZChrom Edition. Some modifications have been implemented to enable new features in the connected CDS.

Sample Scheduler for OpenLab still accepts XMLs that match the scheme of Sample Scheduler for EZChrom Edition. If you want to submit additional parameters (for example, processing methods for OpenLab CDS), use the new format.

The following table provides a guideline on how to change an XML generator of the old scheme to generate XMLs that match the new scheme. This is required in the following cases:

- to have one XML-generator that create commands that can be run on either CDS EZChrom Edition or OpenLab CDS
- when upgrading the CDS system to OpenLab CDS. OpenLab CDS requires the submission of parameters that correspond exclusively to the new scheme.

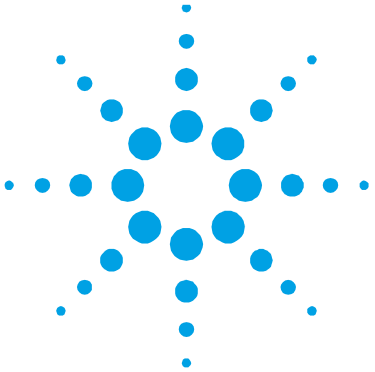
NOTE The XML scheme (.XSD) is provided by the Sample Scheduler for OpenLab setup. It is available in the <Sample Scheduler>/Documentation folder.

Table 1 XML Parameters

Sample Scheduler for EZChrom Edition	Sample Scheduler for OpenLab
<Experiment>	<Experiment>
Template	Template
SampleId	**Identifier** (should be unique for every analysis in the system), **SampleName** (can be duplicated)
Replicates	Replicates
State	State
Project	Project
User	User
E_Custom1	**AnalysisVariable1**
E_Custom2	**AnalysisVariable2**
E_Custom3	**AnalysisVariable3**
E_Custom4	**AnalysisVariable4**
E_Custom5	**AnalysisVariable5**
PrintMethodReports	PrintMethodReports
<Task>	<Task>
ResultName	ResultName
InstrumentMethods	InstrumentMethods
CanUseMethodInjectionVolume	CanUseMethodInjectionVolume
T_Custom1 – T_Custom10	**NOT Supported**
<Tower>	<Tower>
DataFileName	**DataFile**
Position	**InjectionSource** (the Injection source as string as it appears in the CDS)
SampleInfo	SampleInfo
Calibration	Calibration
<SampleInfo>	<SampleInfo>
Description	Description
Vial	Vial
UseMethodInjectionVolume	UseMethodInjectionVolume
InjectionVolume	InjectionVolume

Table 1 XML Parameters

InjectionVolumeUnit	InjectionVolumeUnit
SampleMass	**SampleAmount**
SampleMassUnit	**SampleAmountUnit**
Multiplier	**Multiplier1**
Dilutor	**Dilutor1**
<Calibration>	<Calibration>
SampleType: • Unknown • Standard	SampleType: • **Sample** • **Cal. Std.**
Level	Level
CalibrationMode: • ClearAllCalibration • ClearCalibrationForLevel • ClearReplicates • AverageReplicates	CalibrationMode: • ClearAllCalibration • **ClearCalibrationAtLevel** • ClearReplicates • AverageReplicates
<InternalStandard>	<InternalStandard>
InternalStandardAmount	**InternalStandardAmount1**
InternalStandardAmountUnit	InternalStandardAmountUnit



2. SQL Query

The query for Sample Scheduler for OpenLab has changed compared to the query for Sample Scheduler for EZChrom Edition. Some modifications have been implemented to enable new features in the connected CDS.

Sample Scheduler for OpenLab CDS still accepts SQL queries that match the Sample Scheduler for EZChrom Edition format. If you want to submit additional parameters (for example, processing methods for OpenLab CDS), use the new format.

The following table provides a guideline on how to change the old format of an SQL statement used for the configuration of the Sample Scheduler to the new format. This is required in the following cases:

- to have one LIMS that provide commands that can be run on either CDS EZChrom Edition or OpenLab CDS
- when upgrading the CDS system to OpenLab CDS. OpenLab CDS requires the submission of parameters that correspond exclusively to the new scheme.

Table 2 SQL Parameters

Sample Scheduler for EZChrom Edition	Sample Scheduler for OpenLab
LimsCommandId	**Identifier** (used to confirm to the LIMS that the command has been received)
SampleId	**Identifier** (has to be unique), **SampleName** (doesn't have to be unique)
State	State
ProjectName	ProjectName
UserName	UserName
Replicates	Replicates
PrintMethodReports	PrintMethodReports
E_Customi i=[1-5]	**AnalysisVariablei i=[1-5]**
ResultName	ResultName
InstrumentName	InstrumentName
MethodName	**AcquisitionMethodName**, **ProcessingMethodName**
AlternativeInstrumentsMethods	AlternativeInstrumentsMethods
CanUseMethodInjectionVolume	CanUseMethodInjectionVolume
TowerPosition	**InjectionSource** (this is no longer a 0 / 1, but a string that has to be identical to the name of the injector as used in the CDS)
DataFileName	**DataFile**
SampleDescription	SampleDescription
Vial	Vial
UseMethodInjectionVolume	UseMethodInjectionVolume
InjectionVolume	InjectionVolume
InjectionVolumeUnit	InjectionVolumeUnit
SampleMass	**SampleAmount**
SampleMassUnit	**SampleAmountUnit**
Multiplier	**Multiplier1**
Dilutor	**Dilutor1**
SampleType: • Unknown • Standard	SampleType: • **Sample (0)** • **Cal. Std. (1)**

Table 2 SQL Parameters

Level	Level
CalibrationMode	**CalibrationRunType**
InternalStandardAmount	**InternalStandardAmount1**
InternalStandardUnit	InternalStandardUnit
T_Customi i=[1-5]Server name	**NOT Supported**

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In This Book

The manual describes the main differences between Sample Scheduler for OpenLab CDS and Sample Scheduler for EZChrom Edition regarding:

- The XML Commands
- The SQL Query

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