

Signiant Managers + Agents Component for Tektronix Aurora

Documentation

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Versioning

Datum	Version	Kapitel	Name	Änderung
27.10.17	1.0		mweber	Finalisierung Version 1.0

1 Introduction

The *TektronixAurora* component is an integration of the Tektronix Aurora QC software into the Signiant Workflow Engine. It takes a list of files that have to be quality controlled and takes care of the whole process, starting with the creation of jobs in Aurora, waiting for those jobs to finish and finally creating reports, if required.

2 Functional Description

The component takes a list of files and makes use of the SOAP API of the Aurora software in order to do quality checks based on the template specified. For each file in the list a job is created in the software. Afterwards the component waits for the job to finish.

The result of the quality checks are analyzed and the output parameters are set accordingly. The component can optionally create xml and/or pdf reports as well.

3 Error Handling

Any errors encountered during the execution of this component will result in the component exiting in failure.

3.1 Return codes

0	Success: All files passed the quality check; or if the component is set up to not fail if qc checks return a negative result
1	Failure: The component failed due to an error during quality check; or if the component is set up to fail if not all qc checks return a positive result

4 External Communication

The component communicates via the HTTP protocol with Aurora. The default port for the most recent version of the Aurora API is 1002.

5 External Setup

Aurora needs to be installed and configured correctly. The component uses API calls via HTTP to communicate with Aurora and therefore the agent running the component needs to be able to connect to the Aurora API via the host and port specified in the component input parameters.

6 Agent Platforms

All Signiant supported Agent platforms may be used for this component, as long as they can connect to the Aurora machine via the specified host and port. However, additional work might have to be done before the

component can execute successfully. The filelist input parameter needs to contain file locations to which Aurora has access to.

A typical usecase is the workflow running on a Linux Agent and the filelist therefore being in Linux format, with the files located on a network share that is accessible by both the Agent and Aurora. In this example, the filepaths in the filelist would have to be translated from Linux format to Windows format, so that Aurora can understand them.

7 Inputs

The following table explains the use of all input parameters that are not part of the basic Signiant “Command” component.

Name	Required	Default Value	Description
Filelist	Yes	-	List of files in SigListXML format
Aurora Host	Yes	-	Protocol and host for the Aurora API call (e.g.: http://127.0.0.1 or http://aurora)
Aurora Port	Yes	1002	The port for the API call
Username	Yes	-	User to be used for job creation
Password	Yes	-	Password for the user
Template Name	Yes	-	Name of the template that shall be used to perform the qc check (e.g.: <i>Quick Scan</i>)
Default Report Folder	Yes	C:\inetpub\wwwroot\Aurora\Report	The Aurora API expects information on what the default folder to store all reports in should be. This is not used by the component, but a requirement by the API. It is suggested to set this to the default value that is configured in Aurora. The default value in Aurora is configured as default in the component as well.
Namespace	Yes	http://tektronix.com/aurora/apiservice/2015/01	Xml namespace to be used for the soap call. Can be inferred from the service wsdl. The default value for the most current version running under port 1002 is configured by default
Create Report Xml	Yes	No	Used to determine whether an xml report should be create for every file checked. Accepts Signiant Boolean value (i.e. <i>yes</i> or <i>no</i>)
Result Xml Destination	No	-	The folder into which the xml reports should be saved into. Must not contain a trailing slash (e.g.: <i>C:/temp/reports</i>)
Create Report Pdf	Yes	No	Used to determine whether a pdf report should be create for every file checked. Accepts Signiant Boolean value (i.e. <i>yes</i> or <i>no</i>)
Result Pdf Location	No	-	The folder into which the pdf reports should be saved into. Must not contain a trailing slash (e.g.: <i>C:/temp/reports</i>)
Fail Component On Negative Qc Result	Yes	No	Determines whether the component should actively throw an error if any of the qc results came back negatively. Accepts Signiant Boolean value (i.e. <i>yes</i> or <i>no</i>)
Warning Counts As Negative Result	Yes	No	Determines whether warnings should count as errors or not. Accepts Signiant Boolean value (i.e. <i>yes</i> or <i>no</i>)

8 Outputs

Name	Description
Filelist Success	List of files that passed the qc check in SigListXML format
Filelist Failed	List of files that failed the qc check in SigListXML format
Filelist Report Xml	List of xml report files that were created in SigListXML format
Filelist Report Pdf	List of pdf report files that were created in SigListXML format