**Mobilize.Net SnowConvert for Spark Scala**

The purpose of this document is to summarize the technical considerations and code analysis in migrating Spark application to Snowpark that either have an impact on the automated code conversion or cannot be handled by automated code conversion, as well as providing a high-level inventory and automation capability of the code that will need to be addressed.

**OVERALL ASSESSMENT SUMMARY**

Total Files: 143

Assessment Speed: 546 lines/sec

Assessment Time: 00:00:05

Total Conversion Issues: 0

Total Parsing Errors: 0

Total Warnings: 1

Total Lines of Code (LOC): 2733

**SPARK API SUMMARY**

**READINESS SCORE: 100%**

Identified Usages: 5

Fully Converted Usages: 5

**FILE AND SPARK USAGES LEVEL BREAKDOWN**

* **SCALA - FILES**

Total Files: 143

Scala Files: 2.8% (4/143)

Other Files: 95.1% (136/143)

Project Files: 3

Scala Files with Spark usages: 2

Scala files with Embedded SQL: @WIP

* **SPARK API – IDENTIFIED USAGES**

Total Files: 143

Files with Spark: 1.4% (2/143)

Spark Usages: 5

Total Files with Spark Usages: 2

|  |  |  |  |
| --- | --- | --- | --- |
| **Spark API Usages** | **Supported Usages** | **Unsupported Usages** | **Readiness Score** |
| Dataframe | 1 | - | 100% |
| Column | 1 | - | 100% |
| Functions | 1 | - | 100% |
| RDD | - | - | - |
| SparkSession | 1 | - | 100% |
| Others | 1 | - | 100% |
| **Total** | **5** | **-** | **100%** |

|  |
| --- |
| Readiness Score: **100% (5/5)** |

# **ISSUES BREAKDOWN**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Warnings** | **Conversion errors** | **Parsing Errors** |
| # of issues | 1 | 0 | 0 |
| # of unique issues | 1 | 0 | 0 |

|  |  |  |
| --- | --- | --- |
| **Code** | **Description** | **Instances** |
| SPRKSCL1000 | Source project spark-core version is spark-core\_2.12:3.2.1, the spark-core version supported by snowpark is 2.12:3.1.2 so there may be functional differences between the existing mappings. | 1 |

* **Issue Categorization**

Issues in Mobilize.Net SnowConvert are broken down into three categories:

|  |  |  |
| --- | --- | --- |
| **Warnings** | **Conversion Errors** | **Parsing Errors** |
| Code that is recognized and converted, but needs review. | Code that is recognized, but not converted. | Code that is not recognized and not converted. |