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4.5.1.4 Warnings, Errors and Processing Status

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Overview

This section aims to normalize warnings, errors and processing status to be handled by jobs, programs, functions or class methods into LNRS Brazil solutions.

Target Audience

IT: Software Engineers, Data Engineers, QA Engineers, Operations (DevOps/DBMS Administrator) and Architects.

Analytics: Data Scientists.

Business: Business Analysts.

Support Areas: Info Sec and Auditors.

Maintainers

IT: Software Engineers.

Definition

Warnings: Warning is because something is potentially wrong, but the software still allows it to continue. The prefix used is "WRN_". We agreed that Warnings will have the code range -2000 to -2999.

Errors: It is an error situation in which processing must not continue (it must be interrupted) or continue with due exception handling. The prefix used is "ERR_" and the code range -1000 to -1999.

Attention: Some conventions of errors and warnings are reserved and should not be used with other types of designations which can cause problems of interpretation or behavior. An example of reserved coding is the normalization of errors and status processing refers to HTTP operations (Web/Internet). These HTTP normalization are registered and maintained by IANA (Internet Assigned Numbers Authority), they are:

HTTP Status Codes

Group of Codes	Status Code Category
1XX (100-199)	Informational Response
2XX (200-299)	Sucess
3XX (300-399)	Redirection
4XX (400-499)	Client Errors
5XX (500-599)	Servers Errors

The complete list of status code you can found in https://www.iana.org/ and https://en.wikipedia.org/wiki/List_of_HTTP_status_codes

Processing Status

Indicates the final result of the a job. The prefix used is "STA_" (Status). See below the all possible processing status.

Code	Identifier	Description
0	STA_OK	Processing was a successful.
1	STA_WRN	Processing was a successful. But there are warnings.
-1	STA_NOK	Processing failed.

Result Report Layout

In this section we will explain the result report layout to be generated for all computing jobs.

As standard we adopt JSON format and you can use as results or logging for programs, functions and class methods

Overview JSON Sections

General Body

```
"JobName":"<Name of Job>",
"JobStartedAt":"<DateTime of Starting>",
"JobEndedAt":"<DateTime of Ending>",
"JobElapsedTime":<Total of Seconds>,
"Parameters":{
"List":[]
},
"Warnings":{
```

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```

```
"List":[]
},
"Errors":{
    "List":[]
},
"Summary":{
    "Totals":[]
},
"ProcessingStatus":"<STA_OK | STA_WRN | STA_NOK>",
"ReturnedCode":<0 | 1 | -1>
}
```

Description

JSON Field	Description	Format	Sample
JobName Name of the Job / Executable name		Char (see LNRS Brazil Data Dictionary in Data Formats section)	"JobName":"filevalidator" for a Job name or program "JobName":"ClassName::methodName()" for a class method
			"JobName":"functionName()" for a function
			Suggestions: Use system Arguments List to fit JobName as
			argv[0] => in C/C++
			sys.argv[0] => in Python
JobStartedAt	Date and time when the Job started	Char (see LNRS Brazil Data Dictionary in Data Formats section , but apply DateTime format suitable internalization - I18N setup)	"JobStartedAt":"19/02/2020 17:06:35" (DateTime EU)
JobEndedAt	Date and time when the Job ended	Char (see LNRS Brazil Data Dictionary in Data Formats section , but apply DateTime format suitable internalization - I18N setup)	"JobEndedAt":"19/02/2020 18:40:07" (DateTime EU
JobElapsedTime	Elapsed time processing (JobEndedAt - JobStartedAt)	Integer/Decimal (see LNRS Brazil Data Dictionary in Data Formats section). As Suggestion use number of seconds.	"JobElapsedTime":5612 (seconds)
Parameters	List of parameters or arguments passed to the program or function or class method	Char (see LNRS Brazil Data Dictionary in Data Formats section)	"Parameters":{ "List":[{"argv[1]":"Argument 1"}, {"argv[2]":"Argument 2"}, {"argv[n]":"Argument n"} => Number of Parameters is variable] },
			Ex. filevalidator arqsource.csv arqdest.csv "Parameters":{ "List":[
Warnings	List of warnings occurred during the processing	see following Warnings Body subsection	see following Warnings Body subsection
Errors	List of errors occurred during the processing	see following Errors Body subsection	see following Errors Body subsection
Summary	It is the summary of the processing results	see following Summary Body subsection	see following Summary Body subsection
ProcessingStatus	Processing Status identifier	Char (see LNRS Brazil Data Dictionary in Data Formats section)	"ProcessingStatus":"STA_OK"
ReturnedCode	It is code returned to caller of the Job. It is numeric code of Processing Status	Integer (see LNRS Brazil Data Dictionary in Data Formats section)	"ReturnedCode":0

Warnings Section

Warnings Body

Description

JSON Field	Description	Format	Sample
WarningID	Warning identifier (See following section - List of Warnings)	Char (see LNRS Brazil Data Dictionary in Data Formats section)	"WarningID":"WRN_FILE_NOT_KNOWN"
WarningCD	Warning numerical code (See following section - List of Warnings)	Integer (see LNRS Brazil Data Dictionary in Data Formats section)	"WarningCD":-2000
WarningDS	Warning description (See following section - List of Warnings)	Char (see LNRS Brazil Data Dictionary in Data Formats section)	"WarningDS":"File(s) not known."
WarningOccurs	Number of occurs this warning found during the processing	Integer (see LNRS Brazil Data Dictionary in Data Formats section)	"WarningOccurs":2
WarningItens	List of complementary data of the warning (See following section - List of Warnings)	See following section - List of Warnings	"WarningItens": [{ "FilePack":"eDNE_Basico_1909.zip", "FileName":"arqsource.csv", "FileSize":8192, "FileDate":"19/02/2020 21:43:35" }, { "FilePack":"eDNE_Basico_1909.zip", "FileName":"arqdest.csv", "FilePath":"br-bliss-work-area/correios", "FileSize":4536, "FileDate":"19/02/2020 21:54:20" }] OBS: This sample shows that the arqsource.csv and arqdest.csv files of the eDNE_Basico_1909.zip package are not recognized by the system and they were ignored.

Errors Section

Errors Body

Description

JSON Field	Description	Format	Sample
ErrorID	Error identifier (See following section - List of Errors)	Char (see LNRS Brazil Data Dictionary in Data Formats section)	"ErrorID": "ERR_FILE_NOT_FOUND"
ErrorCD	Error numerical code (See following section - List of Errors)	Integer (see LNRS Brazil Data Dictionary in Data Formats section)	"ErrorCD":-1001
ErrorDS	Error description (See following section - List of Errors)	Char (see LNRS Brazil Data Dictionary in Data Formats section)	"ErrorDS":"No such file(s) or directory(les)."
ErrorOccurs	Number of occurs this error found during the processing	Integer (see LNRS Brazil Data Dictionary in Data Formats section)	"ErrorOccurs":2
Erroritens	List of complementary data of the warning (See following section - List of Errors)	See following section - List of Errors	"ErrorItens": [{ "FilePack":"eDNE_Basico_1909.zip", "FileName":"argsource.csv", "FilePath":"br-bliss-work-area/correios", "FileSize":8192, "FileDate":"19/02/2020 21:43:35" }, { "FilePack":"eDNE_Basico_1909.zip", "FileName":"arqdest.csv", "FilePath":"br-bliss-work-area/correios", "FileSize":4536, "FileDate":"19/02/2020 21:54:20" }

JSON Field	Description	Format	Sample
			OBS: This sample shows that the arqsource.csv and arqdest.csv files were not found in the eDNE_Basico_1909.zip package and the processing failed.

Summary Section

Summary Body

Description

JSON Field	Description	Format	Sample	Remarks
TotalOfWarnings	Total of Warnings found during the processing	Integer (see LNRS Brazil Data Dictionary in Data Formats section)	{"TotalOfWarnings":2},	This is a required Totalizator
TotalOfErrors	Total of Errors found during the processing	Integer (see LNRS Brazil Data Dictionary in Data Formats section)	{"TotalOfErrors":2},	This is a required Totalizator
<other Totalizator></other 	You can add other totalizators that may be important in the report.	Integer (see LNRS Brazil Data Dictionary in Data Formats section)	{"TotalReadLines":5554}, {"LinesAccepted":5420}, {"LinesRefused":134}	

Warnings and Errors

Below we have the catalog of warnings and errors from our Insurance Score platform.

List of Warnings

Description

Code	Identifier	Description	"WarningItens" JSON Body	Format	Remarks
-2000	WRN_FILE_NOT_KNOWN	File(s) not known.	"FilePack":" <package name="">", "FileName":"<name file="" of="">", "FilePath":"<full path="">", "FileSize":<bytes size="">, "FileDate":"<modified date="">"</modified></bytes></full></name></package>	Char, Char, Char, Integer, Char(DateTime EU) (see LNRS Brazil Data Dictionary in Data Formats section)	"FilePack" is not a required item, you put it whether it belongs to a file package the other are required for this warning.
-2001	WRN_MISSING_FILE	Missing file(s).	"FilePack":" <package name="">", "FileName":"<name file="" of="">"</name></package>	Char, Char (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-2002	WRN_NUMBER_OF_COLUMNS	Number of columns in the file is different.	"FileName":" <name file="" of="">", "Expected Columns":<number columns="" expected="" of="">, "Read Columns":<number columns="" of="" read="">, "Line":<number line="" of=""></number></number></number></name>	Char, Integer, Integer, Integer (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-2003	WRN_MISSING_CONTENT	Missing content.	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileSize":<bytes size="">, "FileDate":"<modified date="">", "Expected Content":"<expected content="">"</expected></modified></bytes></full></name>	Char, Char, Integer, Char(DateTime EU), Char (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-2004	WRN_EMPTY_CONTENT	Column or field is empty.	"FileName":" <name file="" of="">", "Field":"<name field="" of="">", "Column":<number column="" of="">, "Line":<number line="" of=""></number></number></name></name>	Char, Char, Integer, Integer (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.

Code	Identifier	Description	"WarningItens" JSON Body	Format	Remarks
-2005	WRN_DATA_TRUCATION	Content has been truncated. Size exceeded limit.	"FileName":" <name file="" of="">", "Field":"<name field="" of="">", "Column":<number column="" of="">, "Line":<number line="" of="">, "Size":<lenght content="" of="" read="" the="">, "Limit":<limit field="" of="" the=""></limit></lenght></number></number></name></name>	Char, Char, Integer, Integer, Integer, Integer (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-2006	WRN_DUPLICATE_KEY	Duplicate Key. Record was ignored.	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileSize":<bytes size="">, "FileDate":"<modified date="">", "Read Bytes":<number bytes="" of="" read="">, "Line":<number fail="" line="" occurred="" of="" the="" where="">, "Key Label":"<label field="" key="">", "Key Value":"<key value="">"</key></label></number></number></modified></bytes></full></name>	Char, Char, Integer, Char(DateTime EU), Integer, Integer, Char, Char (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.

List of Errors

Description

Code	Identifier	Description	"Erroritens" JSON Body	Format	Remarks
-1001	ERR_FILE_NOT_FOUND	No such file(s) or directory(ies).	"FileName":" <name file="" of="">"</name>	Char (see LNRS Brazil Data Dictionary in Data Formats section)	
-1002	ERR_COPY_FAILED	Copying file(s) operation failed.	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileSize":"<size>", "FileDate":"<modified date="">"</modified></size></full></name>	Char, Char, Integer, Char(DateTime EU) (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-1003	ERR_UNZIP_FAILED	Unzip (unfold) file(s) failed.	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileSize":<bytes size="">, "FileDate":"<modified date="">"</modified></bytes></full></name>	Char, Char, Integer, Char(DateTime EU) (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-1004	ERR_CONV_DSV_FAILED	DSV conversion failed.	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileSize":<bytes size="">, "FileDate":"<modified date="">"</modified></bytes></full></name>	Char, Char, Integer, Char(DateTime EU) (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-1005	ERR_EMPTY_FILE	Empty File	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileSize":<bytes size="">, "FileDate":"<modified date="">"</modified></bytes></full></name>	Char, Char, Integer, Char(DateTime EU) (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-1006	ERR_INVALID_CONTENT	Content is invalid	"FileName":" <name file="" of="">", "Field":"<name field="" of="">", "Column":<number column="" of="">, "Line":<number line="" of="">, "Content":"<content>"</content></number></number></name></name>	Char, Char, Char, Integer, Char (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-1007	ERR_NUMBER_OF_COLUMNS	Number of columns in the file is different.	"FileName":" <name file="" of="">", "Expected Columns": <number expected<="" of="" td=""><td>Char, Integer, Integer, Integer</td><td>All are required.</td></number></name>	Char, Integer, Integer, Integer	All are required.

24, 2:47 F Code	Identifier	Description	Warnings, Errors and Pro	Format	Remarks
			Body Columns>, "Read Columns": <number columns="" of="" read="">,</number>	(see LNRS Brazil Data Dictionary in Data Formats section)	
-1008	ERR_FILE_CANNOT_BE_READ	File can not be read. Check permissions.	"Line": <number line="" of=""> "FileName":"<name file="" of="">", "FileSize":<bytes size="">, "FileDate":"<modified date="">"</modified></bytes></name></number>	Char, Integer, Char(DateTime EU) (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-1009	ERR_READING_FAILED	Failed to read the file.	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileSize":<slytes size="">, "FileDate":"<modified date="">", "Read Bytes":<number bytes="" of="" read="">, "Line":<number fail="" line="" occurred="" of="" the="" where=""></number></number></modified></slytes></full></name>	Char, Char, Integer, Char(DateTime EU), Integer, Integer (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-1010	ERR_MISSING_CONTENT	Missing content.	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileSize":<bytes size="">, "FileDate":"<modified date="">", "Expected Content":" <expected content="">"</expected></modified></bytes></full></name>	Char, Char, Integer, Char(DateTime EU), Char (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-1011	ERR_REGISTER_NOT_FOUND	Register not found.	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileDate":"<modified date="">", "Read Bytes":<number bytes="" of="" read="">, "Line":<number fail="" line="" occurred="" of="" the="" where="">, "Key Label":"<label field="" key="">", "Key Value":"<key value="">"</key></label></number></number></modified></full></name>	Char, Char, Integer, Char(DateTime EU), Integer, Integer, Char, Char (see LNRS Brazil Data Dictionary in Data Formats section)	Put the the used queries.
-1012	ERR_DUPLICATE_KEY	Duplicate Key.	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileSize":<bytes size="">, "FileDate":"<modified date="">", "Read Bytes":<number bytes="" of="" read="">, "Line":<number fail="" line="" occurred="" of="" the="" where="">, "Key Label":"<label field="" key="">", "Key Value":"<key value="">"</key></label></number></number></modified></bytes></full></name>	Char, Char, Integer, Char(DateTime EU), Integer, Integer, Char, Char (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-1013	ERR_UPDATE_FAILED	Updating operation failed.	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileBize":<bytes size="">, "FileDate":"<modified date="">", "Read Bytes":<number bytes="" of="" read="">, "Line":<number fail="" line="" occurred="" of="" the="" where="">, "Key Label":"<label field="" key="">", "Key Value":"<key value="">"</key></label></number></number></modified></bytes></full></name>	Char, Char, Integer, Char(DateTime EU), Integer, Integer, Char, Char (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.
-1014	ERR_INSERT_FAILED	Inserting operation failed.	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileSize":<bytes size="">, "FileDate":"<modified date="">", "Read Bytes":<number bytes="" of="" read="">, "Line":<number fail="" line="" occurred="" of="" the="" where="">, "Key Label":"<label field="" key="">",</label></number></number></modified></bytes></full></name>	Char, Char, Integer, Char(DateTime EU), Integer, Integer, Char, Char (see LNRS Brazil Data Dictionary in Data Formats section)	Put the the used queries.

4.5.1.4 Warnings, Errors and Processing Status - BRTech - Confluence

Code	Identifier	Description	"Erroritens" JSON Body	Format	Remarks
			"Key Value":" <key Value>"</key 		
-1015	ERR_WRITING_FAILED	Failed to write the file.	"FileName":" <name file="" of="">", "FilePath":"<full path="">", "FileSize":<sytes size="">, "FileDate":"<modified date="">", "Written Bytes":<number bytes="" of="" read="">, "Line":<number fail="" line="" occurred="" of="" the="" where=""></number></number></modified></sytes></full></name>	Char, Char, Integer, Char(DateTime EU), Integer, Integer (see LNRS Brazil Data Dictionary in Data Formats section)	All are required.

Sem rótulos