

wsLogger implementation infos

The task „wsLogger“ provides entries of a logger module as JSON structure, internally using the „ReadEvLog“ library plus some BR libraries like AsHttp.
The maximum of the last 1000 entries of a logger module can be provided.

The datamodule „wsLData“ additionally contains a simple frontend for the webservice provided by „wsLogger“. Because of technical reasons, the web frontend code is byte-coded and cannot be edited directly.

The provisioning of the frontend code by a datamodule has the advantage, that no extra files on the user partition for the AR integrated webserver are needed, which makes it simple to deploy everything by Automation Studio online download.

If you want to see how the frontend code works, just:

- * open the frontend in your browser
- * store the frontend code to a file (the code has a jQuery instance embedded) and inspect it
- * build your own frontend code and use it with the AR embedded webserver by transferring your code to the user partition web root directory
- * from „wsLogger“, just use the webservice with parameters, instead of using it with the built-in frontend.

Without any changes in „wsLogger“, the frontend can be accessed by:

http://<IP Adress of your PLC>/getLogger.cgi

Example:

line format: RecordID OriginRecordID DateTime.Nanoseconds Severity(3=e, 2=w, 1=i, 0=s) EventID ObjectID (entered by) AddData (if ascii text)
example: 2021 1 DT#2023-06-21-15:27:27.642000000 3 -536674285 TC#8 this is my custom text
Search here:
logger modules on PLC: \$accsec
name of the logger module: \$accsec
fulltext search in results: search for... AND search for... Start Search Clear Search flat (no hierarchy)
max. 1000 latest entries are read from the webservice inside the PLC
hint: the search result without "don't hide..." shows also all parent entries of a found string in a line - this is not a bug ;-)

All loggers existing should be available via dropdown, and by choosing one you can load and display the data (if logger entries contain dependendies, the hierarchy is also displayed)

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example: 2021 1 DT#2023-06-21-15:27:27.642000000 3 -536674285 TC#8 this is my custom text
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example: 2021 1 DT#2023-06-21-15:27:27.642000000 3 -536674285 TC#8 this is my custom text

Search here:

logger modules on PLC: myLogger

name of the logger module: myLogger flat (no hierarchy)

fulltext search in results: search for... AND search for... Start Search Clear Search don't hide non-matching data

max. 1000 latest entries are read from the webservice inside the PLC

hint: the search result without "don't hide..." shows also all parent entries of a found string in a line - this is not a bug ;-)

- 898 896 DT#2025-11-30-11:13:39.441000000 0 536871808 TestDataGenerator this is my custom text - loop run 896
- 897 896 DT#2025-11-30-11:13:39.441000000 3 -535886977 TestDataGenerator this is my custom text - loop run 895
- 892 0 DT#2025-11-30-11:13:39.441000000 2 -1609956486 TestDataGenerator this is my custom text - loop run 890
- 883 0 DT#2025-11-30-11:13:39.441000000 1 1610679153 TestDataGenerator this is my custom text - loop run 881
 - 884 883 DT#2025-11-30-11:13:39.441000000 2 -1610480782 TestDataGenerator this is my custom text - loop run 882
 - 885 884 DT#2025-11-30-11:13:39.441000000 0 537133940 TestDataGenerator this is my custom text - loop run 883
 - 890 886 DT#2025-11-30-11:13:39.441000000 0 537396088 TestDataGenerator this is my custom text - loop run 888
 - 889 886 DT#2025-11-30-11:13:39.441000000 3 -536411273 TestDataGenerator this is my custom text - loop run 887
 - 888 886 DT#2025-11-30-11:13:39.441000000 2 -1610218634 TestDataGenerator this is my custom text - loop run 886
 - 887 886 DT#2025-11-30-11:13:39.441000000 1 1610941301 TestDataGenerator this is my custom text - loop run 885
 - 882 0 DT#2025-11-30-11:13:39.441000000 0 536871792 TestDataGenerator this is my custom text - loop run 880
 - 873 0 DT#2025-11-30-11:13:39.441000000 3 -536411289 TestDataGenerator this is my custom text - loop run 871
 - 874 873 DT#2025-11-30-11:13:39.441000000 1 1611203433 TestDataGenerator this is my custom text - loop run 873
 - 876 874 DT#2025-11-30-11:13:39.441000000 2 -1609956502 TestDataGenerator this is my custom text - loop run 874
 - 880 876 DT#2025-11-30-11:13:39.441000000 2 -1609694354 TestDataGenerator this is my custom text - loop run 878
 - 879 876 DT#2025-11-30-11:13:39.441000000 1 1611465581 TestDataGenerator this is my custom text - loop run 877
 - 878 876 DT#2025-11-30-11:13:39.441000000 0 537658220 TestDataGenerator this is my custom text - loop run 876
 - 877 876 DT#2025-11-30-11:13:39.441000000 3 -536149141 TestDataGenerator this is my custom text - loop run 875
 - 872 0 DT#2025-11-30-11:13:39.441000000 2 -1610218650 TestDataGenerator this is my custom text - loop run 870
 - 863 0 DT#2025-11-30-11:13:39.441000000 1 1611465565 TestDataGenerator this is my custom text - loop run 861
 - 864 863 DT#2025-11-30-11:13:39.441000000 2 -1609694370 TestDataGenerator this is my custom text - loop run 862
 - 865 864 DT#2025-11-30-11:13:39.441000000 3 -535887009 TestDataGenerator this is my custom text - loop run 863
 - 866 865 DT#2025-11-30-11:13:39.441000000 0 536871776 TestDataGenerator this is my custom text - loop run 864
 - 870 866 DT#2025-11-30-11:13:39.441000000 0 537133924 TestDataGenerator this is my custom text - loop run 865

Also, some searching inside the data is possible:

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line format: RecordID OriginRecordID DateTime.Nanoseconds Severity(3=e, 2=w, 1=i, 0=s) EventID ObjectID (entered by) AddData (if ascii text)

example: 2021 1 DT#2023-06-21-15:27:27.642000000 3 -536674285 TC#8 this is my custom text

Search here:

logger modules on PLC: myLogger

name of the logger module: myLogger flat (no hierarchy)

fulltext search in results: loop run 878 AND search for... Start Search Clear Search don't hide non-matching data

max. 1000 latest entries are read from the webservice inside the PLC

hint: the search result without "don't hide..." shows also all parent entries of a found string in a line - this is not a bug ;-)

- 873 0 DT#2025-11-30-11:13:39.441000000 0 536871792 TestDataGenerator this is my custom text - loop run 871
 - 874 873 DT#2025-11-30-11:13:39.441000000 1 1611203433 TestDataGenerator this is my custom text - loop run 873
 - 876 874 DT#2025-11-30-11:13:39.441000000 2 -1609956502 TestDataGenerator this is my custom text - loop run 874
 - 880 876 DT#2025-11-30-11:13:39.441000000 2 -1609694354 TestDataGenerator this is my custom text - loop run 878
 - 879 876 DT#2025-11-30-11:13:39.441000000 1 1611465581 TestDataGenerator this is my custom text - loop run 877
 - 878 876 DT#2025-11-30-11:13:39.441000000 0 537658220 TestDataGenerator this is my custom text - loop run 876
 - 877 876 DT#2025-11-30-11:13:39.441000000 3 -536149141 TestDataGenerator this is my custom text - loop run 875
 - 872 0 DT#2025-11-30-11:13:39.441000000 2 -1610218650 TestDataGenerator this is my custom text - loop run 870
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 - 864 863 DT#2025-11-30-11:13:39.441000000 2 -1609694370 TestDataGenerator this is my custom text - loop run 862
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 - 870 866 DT#2025-11-30-11:13:39.441000000 0 537133924 TestDataGenerator this is my custom text - loop run 865

If you want to use just the webservice data without the frontend, here are the parameters.

request:

http://<IP Address of your PLC>/getLogger.cgi?getmodnames

response:

the logger modules available on the PLC (JSON formatted)

```
{
  "error": "0",
  "modules": [
    "$accsec",
    "$arlogconn",
    "$arlogsys",
    "$arlogusr",
    "$fieldbus",
    "$firewall",
    "$motion",
    "$redund",
    "$safety",
    "$textsys",
    "$unitsys",
    "$versinfo",
    "myLogger"
  ]
}
```

The screenshot shows a web browser window with the URL `192.168.168.134/getLogger.cgi?getmodnames`. The browser interface includes a back/forward button, a search/address bar, and tabs for "JSON", "Rohdaten", and "Kopfzeilen". Below the address bar are buttons for "Speichern", "Kopieren", "Alle einklappen", "Alle ausklappen", and a search field "JSON durchsuchen". The main content area displays a JSON object with the following structure:

```
error: "0"
modules:
  0: "$accsec"
  1: "$arlogconn"
  2: "$arlogsys"
  3: "$arlogusr"
  4: "$fieldbus"
  5: "$firewall"
  6: "$motion"
  7: "$redund"
  8: "$safety"
  9: "$textsys"
  10: "$unitsys"
  11: "$versinfo"
  12: "myLogger"
```

request:

http://<IP Adress of your PLC>/getLogger.cgi?name=<Name of the logger module>

response:
the logger module content (JSON formatted)

192.168.168.134/getLogger.cgi?name=\$arlogsys

JSON Rohdaten Kopfzeilen

Speichern Kopieren Alle einklappen Alle ausklappen JSON durchsuchen

```
error: "0"
module: "$arlogsys"
data:
  0:
    recordID: "1"
    originID: "0"
    eventDT: "DT#2025-11-16-09:10:21.213000000"
    eventID: "31280"
    eventSev: "1"
    objectID: "ROOT"
    addData: "-- no text data available --"
  1:
    recordID: "2"
    originID: "0"
    eventDT: "DT#2025-11-16-09:10:21.908000000"
    eventID: "30028"
    eventSev: "2"
    objectID: "ROOT"
    addData: "-- no text data available --"
  2:
    recordID: "3"
    originID: "0"
    eventDT: "DT#2025-11-16-09:10:31.994000000"
    eventID: "1076899103"
    eventSev: "1"
    objectID: "ROOT"
    addData: "Initial installation"
  3:
    recordID: "4"
    originID: "0"
    eventDT: "DT#2025-11-16-09:10:32.180000000"
    eventID: "3157279"
    eventSev: "0"
    objectID: "ROOT"
    addData: "Configuration ID='BnRCommunitySamples_Config1' Configuration version='1.0.0'"
  4:
    recordID: "5"
    originID: "0"
    eventDT: "DT#2025-11-16-09:12:37.6000000"
    eventID: "1076899102"
    eventSev: "1"
    objectID: "inst"
    addData: ""
  5:
```