DriveRecorder performant automatic files transfer via USB



Using ES820 Archives with USB Sticks

Do you know this challenge?

You are a calibration engineer and you have to change the current recording job (experiment) on your Drive recorder ES820, as well as seed&keys, new configuration settings etc. You want to do this as fast as possible, in an automatic way and without using your PC, so that the driver can immediately perform the next recording trip.

Our Solution – automatic Archive transfer via USB

Within your Driverecorder ConfiguratorTool you are able to organize a container called Archive: it will be copied onto an USB stick to be connected to the ES820.

What are you able to transfer within an Archive via USB stick that is connected to the DriveRecorder?

- INCA Configurations (Experiments, HWC and ECU Projects)
- Recording jobs
- DR Settings
- Seed&keys
- Installations
- External tools

How does it work?

Example: Automatic Change of Experiment(s), Recording Job and Settings

Create your customized HW configuration of the DriveRecorder (*File* \rightarrow *New* \rightarrow *New HW Configuration*), and select the fields for USB settings (Figure 1):

- DriveRecorder archives → ToDR
- Enable automatic transfer
- Overwrite existing
- Process DR Archives after transfer

Select Apply to DriveRecorder

| 🚸 Hardware Configuration | the second se | ×- |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------|
| Machine settings Power management | File exchange path settings Synchronize To Share To DriveRecorder | |
| File transfer settings | Measure data files | |
| General settings Automatic transfer settings | Log files | |
| USB settings Device Options | INCA configuration files | |
| External Applications | DriveRecorder settings | |
| | Seed and Key | |
| | Installations | |
| | DriveRecorder Archives | |
| | File transfer options | |
| | Enable automatic transfer | |
| | Overwrite existing Delete measure files after transfer from DriveRecorder | |
| | Process DriveRecorder Archives after transfer | |
| | USB directory settings | |
| | Root directory | |
| | Subdirectory for device (serial number) | |
| | | |
| | Definition of USB root directory. The serial number can be added to the root directory with the check | kbox. |
| | | |
| | Save to file & Close Apply to DriveRecorder | Close |

Figure 1

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Configure the new Recording Job as usual (in the example of Figure 2, the Start Condition is *Automeasure*) and select *File* \rightarrow *Save Recording Job to File*

| Administrator: DriveRecorder Configurator* | | |
|--------------------------------------------|--------------------------------------|---------------------------------------------|
| File Edit Tools Run Help | | |
| | A + + × A + > N = | |
| Active Recording Jobs | Name | |
| | <recording #1="" job=""></recording> | |
| <recording #1="" job=""> 🔕</recording> | Start condition | Automeasure |
| | Demo.exp | Internal storage, As INCA, Wait for devices |
| | Recorder settings | |
| | Experiment name | Demo.exp |
| | Wait for devices | C Enable |
| | Storage area | ◎ Internal storage 🔘 External storage 🗄 |
| | ECU page | As INCA 🔹 |
| | Diagnostic events | |
| | | + |
| | | |
| INCA Exports | Stop condition | After experiment stops automatically |
| Local PC DriveRecorder | | |
| Experiment Name | | |
| Demo.exp | | |
| × > | | |
| 👹 Disconnected 🛕 Changes in current Rec | ording Configuration | |

Figure 2

Then select *Tool* \rightarrow *automatic file exchange* \rightarrow *new Archive* (Figure 3) :

- *Add* all the relevant files (settings and recording jobs: the relative INCA export files will be added automatically)
- In case you have inserted settings or recording job files, *enable* the ones you want to be applied on the DR
- Select *Enable to restart* (the DriveRecorder)
- Select Create

| Structure to be created | | | |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------|--------|
| DriveRecorder recording jobs | | Enable | |
| recordingjobs.xml | | v | Add |
| DriveRecorder settings | | Enable | Delete |
| settings.xml | | | |
| INCA configuration file | | | |
| DemoCalcSignal.e | (p | | |
| | | | |
| Device Options | Import current | Recording Job | |
| Device Options | Import current | Recording Job | Enable |
| Device Options | Import current | Recording Job | Enable |
| Device Options Process Archive on sa Process Archive on al | Import current elected Devices only I Devices | Recording Job | Enable |
| Device Options Process Archive on sa Process Archive on al | Import current | Serial Number or Name | Enable |
| Device Options ○ Process Archive on so ⑨ Process Archive on al ⑨ Enable Auto Restart | Import current | Serial Number or Name | Enable |
| Device Options Process Archive on st Process Archive on al Tenable Auto Restart | Import current elected Devices only I Devices | Recording Job | Enable |
| Device Options O Process Archive on se Process Archive on al Table Auto Restart Delete Archive files fi | Import current elected Devices only I Devices | Recording Job Serial Number or Name Add | Enable |

Figure 3

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Using ES820 Archives with USB Sticks

Insert the USB stick in the computer and create the folder with just an "Archives" folder (Figure 4), where you can copy/save your archive.

| O | Computer 🕨 (D:) ES820 🕨 | ▼ 4 9 S | earch (D:) ES820 | Q |
|-----------|-------------------------------|------------------|------------------|------|
| File Edit | View Tools Help | | | |
| Organize | Share with | | | • |
| - E | Name | Date modified | Туре | Size |
| | Archives | 20.09.2017 15:20 | File folder | |
| | Configurations | 17.05.2017 13:41 | File folder | |
| | 🐌 Export | 17.05.2017 13:41 | File folder | |
| | 퉬 Installations | 17.05.2017 15:18 | File folder | |
| | 퉬 Measure | 15.05.2017 14:34 | File folder | |
| | <mark>}} z_1904</mark> | 25.07.2017 17:21 | File folder | |
| ~ | 6 items | | | |

Figure 4

When the testing vehicle arrives

- Switch the DriveRecorder to Active Mode (solid ON LED)
- Insert the USB Stick (USB 3.0 port preferable)
- The ES820 will reboot and load the new configurations and exports
- When the ON LED is solid again, the new configurations have been loaded. Moreover, if *automeasure* was set as starting condition for one Recording Job, then the new experiment will be running (MEAS LED will be blinking during loading phase and be solid when recording).



Tools used

- DriveRecorder ConfiguratorTool 7.2.5.147
- ES820 SP5.1 (7.2.5.1.29)
- USB Stick device

Downloads

- Videos: see next page or <u>Download Center</u>
 - 1_Archives_offline_creation.mp4
 - 2_USB_transfer_options_archives.mp4

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Video: 1_Archives_offline_creation.mp4



Video: 2_USB_transfer_options_archives.mp4

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