

Flashlog 7.26

Update Procedure

1. Extract everything from the zip file onto a CD-ROM or USB disc.
2. Insert the disc into the logger and run Update7.exe.
3. When the “Update completed successfully” dialog appears, click “OK” and remove the disc. The Flashlog recorder and player will automatically restart.

This update includes the following new features and fixes:

- Fixed a bug that caused the player to crash when saving extracts to files on Windows 8.
- A bug in the SNMP DLL that prevented the failure of one side of a stereo line input from being detected has been fixed.
- Fixed a bug that caused the volume control not to work correctly when the playback device is configured as something other than 2-channel stereo (i.e. mono or surround sound).
- Fixed a bug that disabled the Save-To-File and Save-To-Clipboard buttons when incrementing or decrementing the Minutes, Ten Minutes or Hours even though a segment was still marked.
- Provided a workaround for stalled input streams that can occur with the newer Wheatnet IP drivers.

This incorporates previous updates which corrected the following issues:

- Fixed a number of issues causing the SNMP DAB service stream status indicator not to report erroneous conditions.
- Fixed a problem that could cause some DAB services not to appear in the SNMP Broadcaster Services table when a broadcaster owns services across multiple ensembles.
- Fixed problems with DAB MOT slide decoding when the data stream is sent in Short X-PAD fields or when header update frames are sent.
- DAB MOT slides larger than 320x240 pixels are now scaled down rather than clipped.

- Added increased compatibility with Flashback 8.
- Fixed a bug with the display of UTF-8 encoded DAB DLS text.
- Added support for a LineLimit registry value to prevent rogue line input devices from being recorded (see the New Registry Values section at the end of this document for details).
- Changed the “Disabled” line input option to “Hidden” to better reflect what this option does.
- Fixed a bug with SNMP status reporting on line inputs configured as 2xMono.
- A resource leak in the SNMP extension agent affecting AM and FM Radcap channels.
- A bug that could cause erratic playback behaviour in sections of the log where there was no DAB signal has been fixed.
- The EPG decoder can now display more than one top-level ensemble object.
- A bug that caused a crash when editing the name of mono line channels has been fixed.
- The PAD data rate is now displayed correctly in the service tooltip balloon (it previously displayed bytes per second instead of bits per second).
- The service long name now displays correctly in the tooltip balloon (it displayed only the first letter following release 7.22.1).
- DAB ensemble and service names are now displayed according to the EBU Latin 1 code table, while DLS text should be correctly decoded according to the broadcast code table identifier. A later version of the DAB+ Radcap driver, currently under development, will allow non-Latin 1 ensemble names and service names to be displayed.
- The method used to determine the earliest available time in the DAB logs has been improved.
- A bug that caused RDS on FM stations to continue to be shown on playback even if no longer present has been fixed.
- SNMP ServiceAudio, ServiceStream and ServiceActive traps did not correctly identify the source of the trap.
- The Flashlog player and Flashback now show an error message when selecting a channel if there’s no default playback device available.
- The method used to determine DAB audio level for the waveform display and audio failure alarms has been improved and now more accurately reflects the actual RMS level.
- The information displayed in the DAB service tooltip is now updated when the playback date or time is changed.

- On playback, AM and FM channel buttons now show the station frequency (or RDS service name) at the time the recording was made.
- A bug that caused line channel skimming boxes in the Sources window to be incorrectly redrawn when editing has been fixed.
- An SNMP trap sent as a result of a DAB service stream failure was incorrectly identified as a service audio failure.
- When a DAB channel is selected but not playing, hovering the mouse over the channel's button for five seconds will display a tool tip balloon showing the full service name, service identifier (SId), sub-channel number (SubChId), audio sampling rate and encoding method, stream bit-rate and PAD bit-rate (see the updated Flashlog 7 manual for details).
- The threshold levels for the SNMP AM and FM carrier status indicators can now be set from the SNMP dialog box.
- Operation of the AM and FM carrier, pilot and RDS SNMP indicators is now independent of the audio fail timeout setting.
- An inactive service now shows *false* for the AudioStatus, StreamStatus and SummaryStatus values in the SNMP BroadcasterService and EnsembleService tables.
- A bug which could cause services not to be reported in SNMP queries if the received DAB signal is lost has been fixed.
- A bug which could cause audio and stream status information in the SNMP ensemble-service and broadcaster-service tables to be associated with the wrong services has been fixed.
- Support for SNMP has been added (the agent software must be installed and activated separately).
- The volume level control on the player screen now works correctly when clicking on the slider track.
- A small resource leak in the player application has been fixed.
- Discontinued DAB services would stop being greyed after half the logging period had elapsed.
- DAB alarms can be optionally enabled for individual services in an ensemble.
- Discontinued services are shown in the player with a greyed name.
- The RDS-derived display name for FM stations can now be overridden.
- A bug in the player calendar navigation when the log is incomplete has been fixed.
- The playback-start danger zone rendering in the waveform window has been smoothed with unnecessary redraws of the window eliminated.

- The DAB slide window is now only refreshed when the slide's TransportId changes.
- Double-clicking on a date in the calendar window marks that whole day for copying.
- Accelerator keys for marking, unmarking, copying and saving have been added (see page 16 of the latest manual for details).
- The +/- keys now move the playback time forward or backward one second.
- Saving to a wma file would go into an infinite loop if the marked length exceeded about 6 hours.
- The presence of an MOT slide with no ContentName field would cause the player to crash. This has been fixed, and a DAB standards violation message now appears instead.
- A buffer overflow crash in Flashback 7 and the Flashlog 7 player which could occur on corrupted DAB recordings has been fixed.
- FM RDS Program Information and RadioText logging has been added. See the separate *FM RDS on Flashlog 7* document for details.
- Playback time can be keyed in directly (see the latest manual for details).
- Playback is disabled or paused when the starting point is close enough to run into the end of the log if allowed to proceed. This danger zone is shown on the waveform display in darker green.
- Source type (Line, AM, FM or DAB) is included in the default save-as-file names.
- The time-span backward and forward buttons have been changed to << and >> to avoid confusion with the play button.
- The current date is circled in red on the calendar.
- Display of line channels under the Sources tab fixed when there are an odd number of sources.
- File-sharing anomalies in the recorder and player have been fixed.
- The Electronic Programme Guide (EPG) failed to decode if there were multiple packets in each frame.
- The recorder's DAB Filetimes table, stored as Filetimes.bin under each ensemble, wasn't being regularly flushed to disc, causing playback problems following a power interruption. As well as routinely flushing, the recorder service now checks the integrity of this file on start-up and rebuilds it in a background thread from the individual audio file timestamps if necessary.
- The "cancel" button on "save to file" and "save to clipboard" operations didn't work.

- Player's DLS decoder not working properly with small segment sizes.
- Live monitoring of DAB services broadcast at 32kHz sampling rate was breaking up.
- Service and ensemble name changes weren't propagating to the Flashlog player screen or Flashback. Note that part of this fix involves an update to the DAB+ Radcap driver (version 3507).
- During playback, the name on the DAB channel buttons now reflects the name that was being broadcast at the time of recording.
- A volume control has been added to both the Flashlog player screen and Flashback.
- If a channel is selected when changing channel categories or DAB ensembles, the playback time is now retained and used when the next channel is selected.
- A memory leak in the MOT slideshow decoder that could cause the player to fail if left playing continuously for long periods (see notes below).
- The skimming indicators in the Sources window wouldn't operate unless the Line tab was selected in the Player window.
- Registry values have been added to restrict the "Save" function and Flashback's logger list editing (see notes below).
- Channel names not showing correctly for mono line channels
- Recorder7 service crash when DAB card returns null ensemble
- For non-current DAB services, the player now starts at the last time the service was present instead of the current time.
- Memory leak in recorder service
- Ampersand character not displaying correctly in DLS text box
- Live monitor not working correctly on mono line inputs
- Recorder failure when foreign audio sources are found on start-up (eg. USB sound cards)
- Player failure on corrupted audio streams
- Ampersand (&) character not displaying correctly in ensemble names
- Live playback mode on the Flashlog player would repeat the first six seconds on AAC DAB streams.
- MOT slides on some streams (notably SKY Sports) weren't showing.
- The Windows Audio service added as a dependency for the Flashlog 7 recorder service to prevent start-up race.
- playing AAC services running at 32kHz sampling rate caused a "stuttery chipmunk" effect

- the DLS text box has been increased to 5 lines to allow for word wrapping on long messages
- service name changes weren't propagating to the playback screen
- couldn't open playback on non-current services
- ruler graduation marks illegible on 10 minute, hour and day spans
- wrong ID displayed on ensemble failure alarms
- changing channels while "Live" selected caused player to crash.
- skimming combo-box and indicator incorrectly repositioned when changing line channel configuration

The following new features are incorporated into versions 7.09 and later:

- "Save as AVI" option when saving a DAB service to a file, recording a video stream along with the audio showing the service name, date and time, DLS text and slideshow.
- "Save as 16kbps WMA" option when saving to a file, providing a low bit-rate alternative when file size is more important than quality.
- DAB Electronic Programme Guide (EPG) streams are now decoded and displayed.
- A warning message appears for twenty seconds in the slideshow window if an ETSI standards violation is detected in the MOT stream.
- DAB ensemble loss-of-signal events are now recorded in an "alarms" folder in the logger's audio folder. There is one log file per day, recording the times at which signal is lost and restored.

Notes

MOT Slideshows

Previous versions of Flashback 7 and the Flashlog 7 player would decode and display multiple slides with interleaved body segments, however this implementation left the decoder susceptible to memory leaks. The ETSI standard for slide shows (TS 101 499 V2.2.1) requires that the segments of each MOT body be transmitted contiguously, and prohibits the

interleaving of segments of different MOT bodies, however we have observed that a number of services currently on air are transmitting interleaved slide segments. We understand that the manufacturers are aware of this problem and are working to correct it.

For the moment Flashlog 7 and Flashback 7 now operate in accordance with the “Simple Profile” described in TS 101 499, but it is intended for future releases to support the “Enhanced Profile”. However neither of these profiles supports the display of slides with interleaved bodies.

This behaviour is also consistent with currently-available consumer DAB+ receivers with slideshow capability.

New Registry Values

Flashlog 7.07 and later

HKEY_LOCAL_MACHINE\Software\Innescorp\Flashlog7
32-bit DWORD value **AllowSave**
0 – save-to-file and save-to-clipboard disabled
1 – save-to-file and save-to-clipboard enabled

Flashlog 7.24 and later

HKEY_LOCAL_MACHINE\Software\Innescorp\Flashlog7
32-bit DWORD value **LineLimit**
Sets the maximum number of line inputs that the logger will record from (the default value is 16)

Flashback 7.07 and later

HKEY_CURRENT_USER\Software\Innescorp\Flashback7
32-bit DWORD value **AllowSave**
0 – save-to-file and save-to-clipboard disabled
1 – save-to-file and save-to-clipboard enabled

HKEY_CURRENT_USER\Software\Innescorp\Flashback7
32-bit DWORD value **LoggerListMode**
0 – logger list is read-only (Add, Delete and Search disabled)
1 – Add and Delete enabled, Search disabled
2 – Add, delete and Search enabled

These values can also be placed under HKEY_LOCAL_MACHINE\Software\Innescorp\Flashback7 in which case they will provide default settings for all users not specifically overridden by HKEY_CURRENT_USER values.

In the absence of these registry values, the “Save” and “Logger List” functions remain fully enabled as in previous versions.

Sub-keys representing logger names can also be created under HKEY_LOCAL_MACHINE\Software\Innescorp\Flashback7 to install loggers for all users of a Flashback PC. For compatibility with Windows Vista and later versions, these globally-defined loggers can’t be deleted from the logger list dialog box as HKEY_LOCAL_MACHINE is read-only for non-elevated applications.