Smartbinder Logfiles

Return to IBIS Smart-binder Booklet Integrity webpage

Revision History

Revision	Date	Change
0	6/3/06	First issued
1	23/7/07	Updated to reflect new data logged in V4 software.
2	22/6/12	Added new data logged in V5 software, removed entries relating to multibin feeder as not supported by V5
3	24/8/12	Correct format of Major code & minor code in E,E2,E3 from integer to hex
4	12/11/12	Corrected description of marking of skewed sheet in B record from "/" to "\". Corrected Book 2 status codes for SheetcodeFault and Skew to bits 16 & 17 respectively (previously bits 13 & 14).
5	26/4/13	Corrected order of data reported by 'P' previously the wrong way round and added calculation of sheet length. Added machine serial number item in first line of file. Added info on connecting to a network.
6	20/1/16	To show moving of BookID from B record to D record in V1.7 software
7	6/9/16	Corrected order of BookID & #sheets in D record.
8	15/3/17	Provided timestamp as UTC time. Separated safety stops out as'E4', combined state machine identifier with "F" record to simplify filtering. Added full list of Book IDs contained within rejected book to "D" record.
9	20/12/18	Added 'D0' record. Added information on converting V7 UTC timestamps in Excel

Smartbinder Logfiles

Log files

Can be found in the C:\temp directory, a new file is created every time Smartbinder operating software starts and is called 'LogNNNN.txt' where NNNN is a sequential number, files are limited to about 1Mbyte and a new file started when this limit is reached. Logfiles are deleted automatically when they are 100 days old

The first line of the file is of the form:

Version;FileName;Date;Time

Eg 1.0.24;sb4_01;02-24-2006;15:12:50

Item	Format	Meaning
Version	Text	Version number of the software that created this file
Filename	Text	Name of the programme file that created the logfile
Date	Date	Date on which this file was created (format depends on system settings)
Time	Time	Time at which this file was created (HH:MM:SS)
Serial No	Text	Serial number of the machine that produced this file

All subsequent lines are of the form:

TimeStamp;Identifier;Data...

Eg 54780.15;S;1;;1;4;16;2048;66363;5236

Item	Format	Meaning
Timestamp	Number	Seconds since 00:00:00 at which this line was created to 2 decimal places (ie hundredths of a second). From V1.7.25 UTC time at which this record was created.
Identifier	Text	1 or 2 characters the identify the data in the line
Data		0 or more data recorded when this line was created

Identifier = A1

Cover match record created when barcode on sheet is successfully matched to a cover

Data	Format	Meaning
SheetID	Integer	Identity number of sheet
SheetCode	Text	Data supplied by code reader
coverID	Integer	Identity number of cover
CoverCode	Text	Data supplied by code reader
CoverPosition	Integer	Identifies position of cover when it is matched 0=pile, 1=prefed

Identifier = A2

Match not required record – sheet does not have code or code field not set for cover matching

Data	Format	Meaning
SheetID	Integer	Identity number of sheet
SheetCode	Text	Data supplied by code reader

Identifier = A3

Match Failure record – unable to match sheet to cover as cover code not available

Data	Format	Meaning
SheetID	Integer	Identity number of sheet
SheetCode	Text	Data supplied by code reader
[CoverPosition]	Integer	Identifies position of cover when match requested 0=pile, 1=prefed

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Identifier =B

Section Integrity check record created when the book is examined to ensure that it is correctly constructed

Data	Format	Meaning
SectionID	Integer	Identity number of the section
SheetID…	Integer	List of the Ids of all the sheets in the book starting from the centre (sheet against the saddle). An asterisk (*) after a sheet ID indicates that the barcode was not read, a hyphen (-) after a sheet indicates that it should have had glue on it but didn't, a plus sign(+) indicates that this sheet should be followed by a cover, (\) indicates a skewed sheet.
[BookID]	Text	BookID field from the cover (if present), moved to D record in 1.7.x versions
#Sheets	Integer	Number of sheets actually in book
#Expected	Integer	Number of sheets expected from the first barcode available
Flags	Hex	Flags showing any faults identified when checking the book

Identifier =C0

Cover feed command record created when the need to feed a cover is identified

Data	Format	Meaning
CommandID	Integer	Identity number of command to feed cover
SheetID	Integer	Identity number of the sheet that triggered the cover feed command

Identifier =C1

Cover feed command miss record created when the cover cannot be fed because it's not been pre-fed.

Data	Format	Meaning
CommandID	Integer	Identity number of command to feed cover
InfeedPosition	Integer	Infeed position at which is to be fed
NextReady	Integer	Estimated distance cover still has to travel to prefeed position
Flags	Integer	Status bits relating to the command

Identifier =C2

Cover detection record created when cover is actually detected

Data	Format	Meaning
SheetID	Integer	Identity number of the sheet, covers receive numbers from the same series as sheets because they are treated as sheets from a different source.
LeadingEdge	Integer	Infeed position when the leading edge of the cover is detected at B..
Status	Integer	Status flags for this sheet

Identifier =C3

Cover edge sample record

Data	Format	Meaning
Event	Integer	Identifies the sample 34=leading edge, 35=trailing edge
Sample	Integer	Value from the high speed sampling logic in eth PMAC
Infeed encoder	Integer	Infeed encoder value when sample taken

Identifier = C8

Code read record created when barcode successfully read from a cover

Data	Format	Meaning
CoverID	Integer	Identity number of cover
CoverCode	Text	Data supplied by code reader
MatchID	Integer	Identity number of cover to be used for sheet matching (may be different from coverID when reading in Pile)

Identifier =C9

Cover transfer record created when the cover is transferred to the infeed from the cover feeder

Data	Format	Meaning
SheetID	Integer	Identity number of the cover
CoverTrailingEdge	Integer	Cover Lane encoder reading when trailing edge transferred to infeed (V4)
InfeedPosition	Integer	Infeed encoder reading when the trailing edge of the cover leaves the cover alignment table
CoverLeadingEdge	Integer	Cover Lane encoder reading when leading edge transferred to infeed (V4)

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Identifier =D

Delivery record created as the section is either rejected or put on the delivery conveyor

Versions to 1.6

Data	Format	Meaning
Status1	Integer	Book status flags 1
Status 2	Integer	Book status falgs 2
Delivery Code	Integer	Code returned by delivery check (error codes 0x……)
SectionID	Integer	Identity number of the section
#Sheets	Integer	Number of sheets delivered

Version 1.7 (changed order and added BookID)

Data	Format	Meaning
SectionID	Integer	Identity number of the section
Status1	Integer	Book status flags 1
Status 2	Integer	Book status falgs 2
Delivery Code	Integer	Code returned by delivery check (error codes 0x……)
[BookID]	Text	BookID field from the outermost sheet (present if BookID configured in setup).
#Sheets	Integer	Number of sheets delivered
[OtherIDs]	Text	List of other BookIDs detected on sheets, will be present if book rejected because it contains sheets of more than one book. New from 1.7.25.

Identifier =D0

Delivery record created as the section is either rejected or put on the delivery conveyor

Replaces 'D' from Version 1.7.50 (changed order and added JobID)

Data	Format	Meaning
SectionID	Integer	Identity number of the section
Status1	Integer	Book status flags 1
Status 2	Integer	Book status falgs 2
#Sheets	Integer	Number of sheets delivered
Delivery Code	Integer	Code returned by delivery check (error codes 0x……)
[JobID]	Text	Job Identifier field from outermost sheet (present if Job Id configured in setup)
[BookID]	Text	BookID field from the outermost sheet (present if BookID configured in setup).
[OtherIDs]	Text	List of other BookIDs detected on sheets, will be present if book rejected because it contains sheets of more than one book.

Identifier =E

Configuration Error record

Data	Format	Meaning
Major Code	Hex	Always 1
Minor Code	Hex	Defines the specific error
[Parameters]		0 or more parameters containing data that describe the specific error

Identifier =E2

Soft stop record

Data	Format	Meaning
Major Code	Hex	Reason for stop (see error code list)
Minor Code	Hex	Identifies the specific cause of this stop when the fault can arise for different reasons
[Parameters]		0 or more parameters containing data that describe the specific error

Identifier =E3

Hard stop record

Data	Format	Meaning
Major Code	Hex	Reason for stop (see error code list)
Minor Code	Hex	Identifies the specific cause of this stop when the fault can arise for different reasons
[Parameters]		0 or more parameters containing data that describe the specific error

Identifier =E4

Safety stop record
New from V1.7.25

Data	Format	Meaning

Major Code	Hex	Reason for stop (see error code list)
Minor Code	Hex	Identifies the specific cause of this stop when the fault can arise for different reasons

Identifier =F

State transition record
Versions to 1.6

Data	Format	Meaning
Module	Text	String identifying the module that produced this record
Entry State	Integer	State before this event
New State	Integer	State after this event
Event	Integer	Event code
[Parameters]		0 or more parameters containing data about the module

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Identifier =Fxx

State transition record
Replaces F from 1.7.25, where xx identifies the reporting module as:

BS[0|1] -BSA feeder 0 nearest stitcher, 1 further upstream.
BU - buffer
DC -Dos collator
ES - Emergency stop
GD -Guards
IN -Infeed
LI - Line interface
PF -Pile Feeder
SS -Stitcher safety
ST -Stitcher

Data	Format	Meaning
Entry State	Integer	State before this event
New State	Integer	State after this event
Event	Integer	Event code
[Parameters]		0 or more parameters containing data about the module

Identifier =G1

Collation group creation record (empty collator)

Data	Format	Meaning
GroupID	Integer	Identity number of the group that has been created
SectionID	Integer	Identity of the section under the collator (to which this group will be added)

Identifier =G2

Addition of collation group to section record

Data	Format	Meaning
GroupID	Integer	Identity number of the group that has added
SectionID	Integer	Identity of the section under the collator (to which this group was added)

Identifier =G3

Stitcher cycled record

Data	Format	Meaning
State	Integer	State of the collation logic
#groups	Integer	Number of collation groups

Identifier =G4

Collator start-up state record

Data	Format	Meaning
#groups	Integer	Number of collation groups
[FirstGroupID]	Integer	Identity of the first collation group if present
[LasTGroupID]	Ineger	Identity of the last collation group if present

Identifier =I0

Sheet Glue gun control record – stop gluing

Data	Format	Meaning
SheetID	Integer	Identity number of first sheet that will not have glue
Infeed Position	Integer	Infeed encoder reading at which this instruction is issued

Identifier =I1

Sheet Glue gun control record – start gluing

Data	Format	Meaning
SheetID	Integer	Identity number of first sheet that will have glue
Infeed Position	Integer	Infeed encoder reading at which this instruction is issued

Identifier = I2

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Perforator Head Activation record

Data	Format	Meaning
SheetID	Integer	Identity number of first sheet that is about to reach the perforator
Infeed Position	Integer	Infeed encoder reading at which this instruction is issued

Identifier = I3

B12 detection record created when trailing edge passes B12

Data	Format	Meaning
SheetID	Integer	Identity number of sheet being glued
Status	Integer	Sheet status flags of sheet being glued
Leadingedge	Integer	Infeed position when leading of sheet passed B12
Infeed position	Integer	Current infeed position
Jam	Integer	1 if jam detected 0 if not

Identifier = I7

B13 detection record created when data samples from B13 received

Data	Format	Meaning
SheetID	Integer	Identity number of sheet last glued
Glue volume	Integer	Volume of glue measured at B13
Dot count	Integer	Number of dots counted at B13

Identifier = I8

Sheet glue fault record created when PMAC identifies sheet that is incorrectly glued

Data	Format	Meaning
SheetID	Integer	Identity number of sheet last glued

Identifier = M

Reason for reject record created when book is delivered

Data	Format	Meaning
SectionID	Integer	Identity number of the section
BookID	Text	Book ID field from barcode
ReasonforReject	Integer	Data communicated to Microtechnica system when a book is delivered as logical OR of SheetMissing = 1, GlueMissing = 2, removed = 4, skewedsheets = 8

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Identifier = P

Pusher detection record created when pusher conveyor sensor triggered

Data	Format	Meaning
Measured position	Integer	Stitcher angle at which it was detected on this cycle
Expected position	Integer	Stitcher angle at which the pusher should be detected

The actual sheet length can be deduced (approximately) from:
Sheet length (mm) = 210 + 360*(Measured Position - Pusher Datum Offset) /36864
(The distance between pusher flights is 360mm so 1°=1mm)

Identifier = Q5

External check device trigger record created when trigger signal sent to external book quality detector

Data	Format	Meaning
SectionID	Integer	Identity number of the section
Section Status	Integer	Book Status2 flags

Identifier = Q6

External check device response record created when response received from check device

Data	Format	Meaning
SectionID	Integer	Identity number of the section
[Code]	Text	Code returned (if using barcode reader as check device)
Pass/Fail	Text	'.T.' if code matches/'.F.' if not (code reader only)

Identifier = Q6a

Accept book record when external check device not enabled

Data	Format	Meaning
SectionID	Integer	Identity number of the section

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Identifier =S

Sheet arrival record created when the trailing edge of the sheet is detected at B1 (infeed sensor)

Data	Format	Meaning
SheetID	Integer	Identity number of sheet (reset to 1 on restart of software)
Code	Text	Data supplied by code reader
SheetNumber	Integer	1..99 – position of sheet within section
OfSheets	Integer	1..99 – number of sheets in section
CodeScheme	Integer	Flags that indicate the format of the code
Status	Integer	Flags used to trace what is done to the sheet
LeadingEdge	Integer	Infeed encoder reading when leading edge of the sheet is detected at B1
MeasuredLength	Integer	Length of this sheet in infeed encoder counts (at B1)

Identifier =S1

Sheet collation record created when the trailing edge of the sheet is detected at B11 (collation sensor)

Data	Format	Meaning
SheetID	Integer	Identity number of sheet when trailing edge identified
TrailingEdge	Integer	Infeed encoder reading when trailing edge of sheet detected at B11
BookID	Integer	Identity number of the book under the collator
#groups	Integer	Number of collation groups
GroupID	Integer	Identity of collation groups to which this sheet will be added
SheetsInBook	Integer	Number of sheets in the book under the collator
OverlapCount	Integer	Number of overlapping sheets in collator
SheetLength	Integer	Sheet length measured at B11
Sheet status	Integer	Sheet status flags as sheet enters the collator

Identifier =S2

Sheet collation record created when the trailing edge of the sheet is detected at B11 (collation sensor)

Data	Format	Meaning
SheetID	Integer	Identity number of sheet when trailing edge identified
Infeed Position	Integer	Infeed encoder reading at which this sheet was deemed to be missing
Position Error	Integer	Calculated error in the position of this sheet (ie how far (at least) it must be from where it should be)
Status	Integer	Status flags for this sheet

Identifier = S4A

Sheet insertion record – not overlapping created when sheet is added to infeed in a gap

Data	Format	Meaning
New SheetID	Integer	Identity number of sheet that is being added
SheetID	Integer	Identity number of sheet that it follows
Distance	Integer	Distance of the trailing edge of the sheet that is already on the infeed from B11

Identifier = S4B

Sheet insertion record –overlapping created when sheet is added to infeed on top of another sheet

Data	Format	Meaning
New SheetID	Integer	Identity number of sheet that is being added
SheetID	Integer	Identity number of sheet that it follows
Distance	Integer	Distance of the trailing edge of the sheet that is already on the infeed from B11

Identifier = S4C

Cannot locate overlapping sheet record

Data	Format	Meaning
SheetID	Integer	Identity number of sheet that should have overlapping sheet

Identifier = S4D

Overlapping sheet arrives at collator record

Data	Format	Meaning
SheetID	Integer	Identity number of sheet that has overlapping sheet

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Identifier = S5

Sheet collation report created when sheet passes into collator

Data	Format	Meaning
SheetID	Integer	Identity number of sheet
Leading edge	Integer	Infeed encoder count when leading edge enters collator
Trailing edge	Integer	Infeed encoder count when trailing edge enters collator

Identifier = S6

Skewed sheet report created when a sheet is identified as skewed in the scoring & folding area

Data	Format	Meaning
SheetID	Integer	Identity number of sheet
Infeed encoder	Integer	Infeed encoder count when skew detector first triggered

Identifier = S6a

Consecutive skewed sheet check report created when the check for consecutive skewed sheets identifies a skewed sheet.

Data	Format	Meaning
SheetID	Integer	Identity number of sheet that is skewed
Status	Integer	Sheet status flags of sheet
Infeed encoder	Integer	Infeed encoder count when skew detector first triggered

Identifier = S7

B11 edge sample record

Data	Format	Meaning
Event	Integer	Identifies the sample 4=leading edge, 5=trailing edge
Sample	Integer	Value from the high speed sampling logic in the PMAC
Infeedencoder	Integer	Infeed encoder value when sample taken
Measurement	Integer	Actual infeed encoder value when sample was taken

Identifier =V0

Next sheet 1 estimation record (values return by next sheet position estimator)

Data	Format	Meaning
InfeedPosition	Integer	Infeed encoder reading at which estimate made
MeanPitch	Integer	Mean sheet pitch value used in estimate
SheetID	Integer	Identity of last sheet on infeed at the time of this estimate

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Identifier =Y0

There are 2 similar records for stitcher commands one for index & one for continuous mode

Stitcher command record created when stitcher is required to cycle in index mode

Data	Format	Meaning
CommandID	Integer	Indentity of the command
Flags	Integer	Command status flags
Position	Integer	Infeed encoder reading at which the stitcher cycle is to start
CycleLength	Integer	Duration of stitcher cycle in ms
Infeedspeed	Float	Infeedspeed used for command calculations in counts/ms
Offset	Integer	Offset of stitcher command from point at which leading edge of sheet is expected at B11 in infeed encoder counts
SheetID	Integer	Identity of sheet that triggered this sticther cycle
SectionID	Integer	Section that is to be moved from under collator by this cycle
Pitch	Integer	Section pitch in infeed encoder counts
Threshold	Integer	Pitch below which the stitcher will switch to continuous mode
VirtualZero	Integer	Infeed encoder reading at which the stitcher would be at zero if this command were executed in continuous mode

Stitcher command record created when stitcher is required to cycle in continuous mode

Data	Format	Meaning
CommandID	Integer	Indentity of the command
Flags	Integer	Command status flags
Position	Integer	Infeed encoder reading at which the stitcher cycle is to start
CycleLength	Integer	Duration of stitcher cycle in ms
Infeedspeed	Float	Infeedspeed used for command calculations in counts/ms
RampDuration	Integer	Time in ms over which to blend this cycle into next
SheetID	Integer	Identity of sheet that triggered this sticther cycle
ActualZero	Integer	Infeed encoder reading at which the stitcher was at zero at the start of the previous command
LastCycleLength	Integer	Previous cycle length in ms
Threshold	Integer	Pitch above which the stitcher will switch to index mode

Identifier =Y1

Stitcher missed command record created when stitcher cannot execute a previously calculated command

Data	Format	Meaning
CommandID	Integer	Indentity of the command
Flags	Integer	Command status flags
Position	Integer	Infeed encoder reading at which the stitcher cycle is to start
CycleLength	Integer	Duration of stitcher cycle in ms
Infeedspeed	Float	Infeedspeed used for command calculations in counts/ms
Offset	Integer	Offset of stitcher command from point at which leading edge of sheet is expected at B11 in infeed encoder counts (deleted from V4)
SheetID	Integer	Identity of sheet that triggered this sticther cycle (deleted from V4)
InfeedPosition	Integer	At which the command was removed from the queue

Identifier =Y2

Start of new section record created when the first sheet of a new section is recognised and there is a preceding command to cycle the stitcher

Data	Format	Meaning
SectionID	Integer	Identity of the section currently under the collator
#Sheets	Integer	Number of sheets currently under the collator
SheetID	Integer	Identity of the sheet (deleted from V4)
SectionID	Integer	Identity of the section that the preceding stitcher command applies to (deleted from v4)

Identifier =Y3 (deleted from V4)

Start of new section record created when the first sheet of a new section is recognised and there is an empty space at the collator

Data	Format	Meaning
SheetID	Integer	Identity of the sheet
SectionID	Integer	Identity of the section currently under the collator

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Identifier =Y4

Start of new section record created when the first sheet of a new section is recognised

Data	Format	Meaning
CommandID	Integer	Indentity of the command
SectionID	Integer	Identity of the section currently under the collator
#Sheets	Integer	Number of sheets currently under the collator

Identifier =Y5 (Introduced to v4)

Switch from continuous mode to index mode

Data	Format	Meaning
CommandID	Integer	Indentity of the command
BookPitch	Integer	Encoder counts until next book reaches collator
Threshold	Integer	Encoder counts above which the stitcher must switch from continuous mode

Identifier =Y6 (introduced to v4)

Switch from continuous mode to index mode

Data	Format	Meaning
CommandID	Integer	Indentity of the command
Flags	Integer	Command status flags
SectionID	Integer	Identity of the section currently under the collator
#Sheets	Integer	Number of sheets currently under the collator

Identifier =Z, Z1, Z2

Sampling statistics

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Sheet status codes

Name	Bit	Decimal	Hex.	Meaning
validcode	0	1	1	A code has been successfully decoded to give sheet number & number of sheets or if the code is a set marker it is not empty
Doublesheet	1	2	2	Was detected by a double sheet detector
isacover	2	4	4	Sheet came from a cover feeder
Coverthissheet	3	8	8	This sheet should have a cover on top of it
CFCmndIssued	4	16	10	Cover feeder has fed a cover for this sheet
testfeed	5	32	20	Feeder has been manually triggered
JamAtCollator	6	64	40	Sheet involved in a jam at the collator & may have been damaged/removed
Reserved	7	128	80	
Reserved	8	256	100	
Reserved	9	512	200	
UnbrokenStream	10	1024	400	Gap in front of this sheet is less than mean sheet pitch
firstoninfeed	11	2048	800	Sheet was added to empty infeed
ReadCodeOnInfeed	12	4096	1000	Use reader on infeed to get a code for this sheet
FirstofSet	13	8192	2000	Set to force the sheet to be identified as first in a set
lastofset	14	16384	4000	Set to force sheet to be identified as last sheet of set
Reserved	15	32768	8000	
GlueLower	16	65536	10000	Put glue on the lower surface of this sheet
GlueUpper	17	2^17	20000	Put glue on the upper surface of this sheet
LowerGlued	18	2^18	40000	Glue is present on the lower surface of this sheet
UpperGlued	19	2^19	80000	Glue is present on the upper surface of this sheet
CodeMatchError	20	2^20	100000	Mismatch between main code and the check code on a sheet
Skew	21	2^21	200000	Sheet is skewed

Code Scheme codes

Name	Bit	Decimal	Hex.	Meaning
First	0	1	1	Only the firs t sheet of a section is coded
Last	1	2	2	Only the last sheet of a section is coded
Every	2	4	4	Every sheet is coded
SetMark	3	8	8	A non-significant code is used to mark the end of set
reversed	4	16	10	The code order counts down so that the last sheet is sheet 1
insertID	5	32	20	cover ID must match the sheet ID of the book
insertpage	6	64	40	the page number must be in the correct position for the cover's location in the book
Reserved	7	128	80	
section	8	256	100	'Section codes were identified in the barcode

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Section status1 codes

Name	Bit	Decimal	Hex	Meaning
LeadAtPushout	0	1	1	The leading edge of the book has passed the pushout sensor (B14)
TrailAtPushout	1	2	2	The trailing edge of the book has passed the pushout sensor.
LeadAtLongBook	2	4	4	Long Book sensor has seen the leading edge of a book
TrailAtLongBook	3	8	8	Long Book sensor has seen the trailing edge of a book
LeadAtTransfer	4	16	10	Transfer sensor has seen the leading edge of a book
TrailAtTransfer	5	32	20	Transfer sensor has seen the trailing edge of a book
LeadAtTrimmer	6	64	40	Trimmer sensor has seen the leading edge of a book
TrailAtTrimmer	7	128	80	Trimmer sensor has seen the trailing edge of a book
SpineInReject	8	256	100	Reject sensor has detected the spine of this book
ForeInReject	9	512	200	Reject sensor has detected the fore-edge of this book[1]
SpineInDelivery	10	1024	400	Delivery sensor has detected the spine of this book.
ForeInDelivery	11	2048	800	Delivery sensor has detected the fore-edge of this book.
PusherJam	12	4096	1000	This book caused a pusher jam.
Longbook	13	8092	2000	This book was longer than the the Book length setting on the Stitcher Settings page
HasExtraSheets	14	16384	4000	This book may have more sheets than it should because the preceeding book was not seen at the pushout sensor (ie it may have hung up in the collator and not been pushed out).
MayBeMissing	15	32768	8000	Set when a guard is opened and the book might have been removed, reset if the book is subsequently seen by a sensor. (V1.3)
EscapedNip1	16	65536	10000	This book may have been driven out of the front knife position when the trimmer was going back to positon after a stop.
MissedUpperstops	17	131072	20000	This book may not have registered properly at the upper stops because it only arrived slowly when the trimmer was going back to position after a stop.
Missedlowerstops	18	262144	40000	This book may not have registered properly at the lower stops because it only arrived slowly when the trimmer was going back to position after a stop.
RejectMe	19	524288	80000	This book is to be rejected.
MayBeAltered	20	1048576	100000	Book in collator when stitcher or infeed guard opened
StartFlag	21	2097152	200000	Book in collator when machines started 9introduced V4)

[1] The fore-edge of the book is the cut edge and is in fact the trailing edge of the book as it passes the sensor.

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Section Status2 codes

Name	Bit	Decimal	Hex	Meaning
MissingBarcodes	0	1	1	One or more sheets has no bar code
HasScrap	1	2	2	The number of sheets (ie the third and fourth digits of the barcode) changed within the book)
Incomplete	2	4	4	Not all the sheets are present
SequenceFault	3	8	8	The bar codes are not in correct sequential order
SheetJaminCollator	4	16	10	One or more sheets jammed on the way into the collator.
KnockOn	5	32	20	The first sheet into the collator jammed and may have affected the preceeding book
HasBeenChecked	6	64	40	The book has been analysed to see which sheets are in it.
HasNoSheets	7	128	80	There are no sheets in this book
MissingCover	8	256	100	A cover was fed into this book but was not seen at the cover lane sensor and is not in the book
MisplacedCover	9	512	200	A cover was feed into this book but did not go into the correct position in the book. Its position is determined form thr time at which it passes the cover lane sensor
JobIDError	10	1024	400	The job ID field is not the same for all sheets in the section
CoverIDError	11	2048	800	The part of the code on the sheet that is required to match the code on the cover does not.
MissingGlue	12	4096	1000	A sheet marked as requiring glue does not have enough glue on it
SheetCodeFault	16	131072	10000	Section contains 1 or more sheets on which the check code does not match the main code
Skew	17	262144	20000	Section contains 1 or more skewed sheets

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Reading log files

Can be examined using notepad or wordpad, but can be more easily read using excel. Open the file as a text file with delimited format (set ; as a delimiter).

Because the status codes are in decimal they can be hard to read, you can create a function that you can use to decode them by pasting the following into Module 1 in the Visual Basic Editor (Alt-F11).

```
Public Function BitIsSet(Value As Variant, bit As Integer) As Boolean
   BitisSet = (Value And (2 ^ bit))
End Function
```

You can use this as a normal worksheet function for example by entering:

=BitIsSet(B26,21)

in a cell which will show TRUE or FALSE according to the value of bit 21 in the number in B26.

Converting V7 format dates.

From version V1.7.xxx the timestamp for each record is the number of seconds since 1/1/1601 (based on Microsoft file time). This timestamp can be recognised by its value (being larger than 86400 – the number of seconds in a day).

Excel bases its times on the number of seconds since 1/1/1901 so a conversion is necessary using the following formula for a date in column A row 2:

```
=((A2-11644473600)/3600/24)+DATE(1970,1,1)
```

Note- that this actually converts the time to UTC & then adds the UTC base time in excel format, this will give an excel formatted date in UTC which will have to be further corrected for the Timezone that is set on the machine by adding the relevant offset in seconds. The offset should be +ve for timezones east of the UK (Europe etc) and -ve for timezones to the west (eg US).

Smartbinder Logfiles

Connecting the Smartbinder to a network

Connect to the network port (Smartbinder supports 10/100) on the PC card (upper left of the control panel at back of machine).

The log files are on the Hard disk drive (if fitted) drive letter D: (or if you do not have a Hard disk drive they will be in c:\temp).

Share the folder (C:\temp or D:) in order to be able to see it over the network. The Smartbinder runs on a stripped down version of windowsXP so you do not have the full range of menus, however, you can create a share on a folder by right clicking the appropriate folder with a mouse.

Note that because the Smartbinder runs this stripped out version of XP there is no firewall, and it is not possible to run anti-virus software on it. Thus there is potential for security issues (eg introducing a virus from a USB stick plugged into the machine) and you should take steps to limit the network access to and from the machine.