

Minutes from the meeting with the StanForD-group 2001-04-02

Place: SkogForsk, Uppsala, Sweden

Present: Sven Erik Gustafsson, AssiDomän
Dan Norman, Caterpillar
Magnus Wijk, CC Systems AB
Joakim Nygren, Haglöf Sweden AB
Markku Laaksonen, Mitron Oy
Jaakko Mäkinen, Mitron Oy
Tapio Räsänen, Metsäteho
Anders Nylund, Partek Forest AB
Tuomo Vuorenpää, Partek Forest
Jyrki Pesonen, Ponsse Oy
Anders Emmoth, Ponsse AB
Roland Karlsson, Rottne
Stefan Falk, Rottne
Anders Hansson, SCA
Mathias Westerlund, SDC
Christian Tharaldsen, Skog-Data AS, Norway
Leif Orth, Södra
Leif Johansson, Timberjack Sales AB
Sakari Suuriniemi, Timberjack
Mika Talola, Timberjack Oy
Ola Rostad, Øst-Norges Tømmermåling, Norway

From SkogForsk: Bertil Lidén, Secretary
Jan Sondell, Chairman
John Arlinger

§1 Opening of the meeting

Jan Sondell opened the meeting, the first one to be held in English. The proposed agenda was accepted.

§2 Organization matters

The decision process concerning StanForD was discussed. A proposal from the secretary was agreed upon. In the future all proposals concerning the standard shall be sent to the secretary not later than two months before the StanForD meeting. The proposals and ideas must not be in English. After receiving the proposals there will be a “three week email-conference” to clarify and develop the proposals. At the latest four week before the StanForD meeting the proposals shall be well formulated in English and spread to the members of the StanForD group.

All documents like the minutes from the meetings, standard documents and information on the web site will only be published in English from now on. In the standard documents there will be a need for some national appendixes.

A national preparatory meeting for StanForD users like in Finland could also be arranged in Sweden if there is a need for it.

§3 Remaining issues from the last meeting

The secretary informed about a few issues remaining from the last meeting. The information in concern will be published on the web site in a few weeks.

§4 Development of StanForD towards XML

Tapio Räsänen from Metsäteho and the secretary informed about the plans to develop StanForD towards an XML-based standard. A joint Metsäteho-SkogForsk project is being prepared. The organization, time frame etc. will be discussed on a meeting on June 5th 2001.

§5 Price based on stem volume

Jan Sondell informed about a present project at AssiDomän with the objective to create a system for pricing based on stem volume. In the work the need for some new variables or better descriptions has been identified. New variables or new descriptions are found in *italic style* below:

VarNr	Name	Type	DataType	Unit	Description
500	DBHT	1	Integer	Cm	Height of DBH, measured value (<i>normally 120 cm above stump in Scandinavia</i>)
		2	integer	Cm	Height above stump of DBH/tree species, calculated value: 1...var111
510	DBHDERDIST	1	integer	Cm	Calculated distance from but end to position where diameter is measured for derivation of DBH in var500T2.
504	VOLDBHCL	1	integer	m3 solid i.b.	Total volume/DBH class/tree species: 1...var501/1...var111
		2	integer	m3 solid i.b.	Volume/ DBH class/price matrix/tree species: 1...var501/1...var116/1...var111
		3	integer	m3 solid o.b.	Total volume/DBH class/tree species: 1...var501/1...var111
		4	integer	m3 solid o.b.	Volume/ DBH class/price matrix/tree species: 1...var501/1...var116/1...var111
		5	integer	m3	Volume, sort according to price matrix/DBH-class /price matrix/ /tree species: 1...var501/1...var116/1...var111

When using data from the PRD-file for pricing there is also a need to add manually bucked logs. How to add these logs to the PRD-file was discussed. A working team consisting of Haglöf, Mitron and SkogForsk was set up. The team will prepare a proposal to the autumn meeting.

§6 Sound knot bucking

SkogForsk is working with a trial to implement functions for automatic determination of the “sound knot cylinder”. The following new types were decided:

VarNr	Name	Type	DataType	Unit	Description
149	FUNCMODE	1	integer	Code	1: $y = a + bx$ 2: $y = a + bx + cx^2$
274	NUMGRADEB	2	integer	Number	By calculation automatically generated grade limits
275	HGHTGRADB	3	integer	Cm	Height where stem diameter is equal to the diameter of the grade cylinder in var274T2: 1...var274
276	GRADE	3	integer	Number	Specification of qualities (from but end) generated automatically by calculation: 1...var274

§7 Standard matrix for unclassified timber

A proposal for default limits for a matrix for unclassified timber was discussed. See appendix nr 1. The unclassified timber can be defined in a price matrix and by using var136 with a new code 4 the matrix will not be included in the calculation of value when bucking the stem.

§8 Clarification and definition of variables

Logging site and production reports, definition and interpretation of some variables in the PRD-file

The definition of some variables like var21 and var35 was discussed. The issue will be further analysed and a proposal will be prepared for to the autumn meeting. In contacts with Mathias Westerlund shortly after the meeting he has withdrawn his proposal that was discussed. He recommend the manufacturers to put in control questions for the driver when he puts in data for identity of objects, e.g. when restarting on an object

Improved definition of var273 STEMEDIA

Jan Sondell told about different ways to define the diameter at the top end of a log. The value presented in var273 represents the actual height and is not a mean for the last module or something else. In newer system it will be the actual sampled cm-value or for older systems it ought to be a mean deduced from values around the one to present.

VarNr	Name	Type	DataType	Unit	Description
273	STEMDIA	1	integer	mm (o.b.)	Diameter at heights defined by variables 269, 271 and 272. Refers to filtered values outside bark (<i>representing the actual point of measuring</i>).
		2	integer	mm (o.b.)	Diameter at heights defined by variables 269, 271 and 272. Refers to unfiltered values outside bark (se above).
		3	integer	mm (o.b.)	Starting diameter and differences, filtered values outside bark (se above).
		4	integer	mm (o.b.)	Starting diameter and differences, unfiltered values outside bark (se above).

Definition of var241 TOTALVOLU

It was discussed how the variable should be defined. Many of the members meant that all volumes, i.e. both classified and unclassified should be included. It was observed that var241T3 can show a different value if there are parts of the stems that only will be bucked into waste (all pieces registered in the waste matrix). The issue will be analysed further in order to make a decision at the autumn meeting.

Numbering of price matrixes, var296

An improved description will be made.

VarNr	Name	Type	DataType	Unit	Description
296	PRICEMATR	1	integer	Integer	Registered price matrix/var110 for logs: 1... var290 1... = Price matrix number (positive integer) 0 = Reject -1... = Pulpwood (negative integer if pulpwood specified using variables 181 and 182)
		2	String	Text	Description of price matrix: 1... var290

Recommended variables in the PRI-file

To be able to create a PRD-file from a PRI-file one must include certain variables in the PRI-file. It was decided to change the priorities according to the proposal from Magnus Wijk.

The variables var117T1, var118T1, var131T1 and var132T1 will be assigned to priority 1 and the variables var125T1, var126T1 and var127T1 will be assigned to priority 2.

The use of var500-502 in apt-files

Suggested by Anders Hansson it was decided to assign priority 3 for the variables var500, var501 and var502 in the APT-file. The reason is that a user wants to define DBH-classes without visiting the machine.

§9 Standard for data exchange between machine control systems and other applications

A progress report from the working team will be published as a draft on the web site within a few weeks. Bertil Lidén reported on the problems of finding an XML-expert to support the group.

§10 Recommendations for STI and KTR files in Finland

Tapio Räsänen presented the recommendations for the STI and KTR files in Finland. The presented paper will be enclosed as a Finnish appendix to the standard document.

§11 Items for discussion and information

The need for a variable, which cause a stop of the feeding of the stem in order to make it easier to buck top logs.

Anders Hansson returned to the issue that was discussed at the last meeting. Some members questioned the advantage of such a function. The problem will be considered further. The possibility to make a minor field study was mentioned.

Randomly generated STM file

Some members of the group have identified a need for a variable that randomly choose stems that will be measured for control purposes. A working team was set up to prepare the issue. Members are Haglöf, SCA and SkogForsk.

The need for signature in APT files

The possibilities to make better use of var50 were discussed.

Estimated diameters in the root end

ESE Technique (Jörgen Eriksson) had proposed some new variables to register calculated diameters in the root end of the stem. The proposal was postponed to the autumn meeting and suggested to be co-ordinated with var500 and var510, see §5. The secretary will contact Jörgen Eriksson.

Information from TSG (Swedish user-group for technical co-operation) on demands on a common report for monitoring of operations

The secretary informed about the group and their activities. During the coming months an analyse will be made to show if there is any need for new variables in StanForD due to the demands on a monitoring report. The secretary will make the analysis in co-operation with the working team from TSG.

§12 Other StanForD issues.

Tapio Räsänen informed about the working team set up in Finland to discuss and define the use of var190.

§13 Information about “Skogsnäringens arbetsgrupp för trådlös kommunikation” (The working group for wireless communication in forestry and forest industries)

Bertil Lidén, secretary also for this group, informed about the activities. The coverage of GSM is not so good in Sweden as in Finland. The old NMT450 network is in some cases an acceptable alternative especially in northern Sweden. The group will analyse the needs and demands on the corresponding infrastructure for wireless communications for the years beyond 2005. In the short term measures will be taken to pay attention to the need for NMT450.

Next meeting

Next meeting will take place on Monday October 22nd at SkogForsk in Uppsala with start at 10.00 a.m. According to §2, proposals for the meeting shall be the secretary by hand not later than on August 31st.

End of meeting

Jan Sondell closed the meeting.

Secretary

Bertil Lidén

Appendix 1

Standard matrix for monitoring of unclassified timber in the prd-file

Top diameter, mm:	0	50	100	150	200	250	300	350	400	500	600+	Sum
Length, cm												
0							A	A	A	A	A	
5							A	A	A	A	A	
10												
30						B	B	B	B	B		
60						B	B	B	B	B		
120						B	B	B	B	B		
200												
300												
400												
500	C	C										
600	C	C										
1000+												
Sum												

A Timber registered in this area shows that the harvester probably: adjusted many wide but end cuts
 B. cut short pices of the stem because of rot
 C. has had bad control of length measuting or got may top breakages

If fewer diameter classes is allowed, reduce the number of thick diamer classes, remove in order 600+ and 500 mm.

If fever length classes is allowed, reduce in order 500 and 400 cm classes.

Maximal length should be set to 10000 cm

Maximal diameter should be set to 10000 mm

The assortments should be available in all tree species and valid for all qualities

All elements in the price list should be set to zero

If product groups are used in the *.apt this assortment must be assigned to a group

If stem types are used in the *.apt this assortment must be assigned to a type

The assortment should have var136T1 set to code 4 "Registration only"

All variables dependent var116T1 must be initiated or updated