
The Central Council of Church Bell Ringers

Framework for Method Ringing Appendices

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Appendix A. Place Notation

1. Place notation is a compact way to describe a Change or a sequence of Changes when the Change(s) comprise Adjacent or Identity Changes.
2. A Change is represented in place notation by listing the Places made, starting from the earliest Place to the latest Place. All remaining pairs of adjacent bells swap.
3. Places are represented by the same single characters as are used for bells, as described in 3.B.1.
4. In an even-Stage Change only, all adjacent pairs of bells may swap, such that no Places are made. This is called the cross Change, and it is denoted in place notation with either 'x', 'X' or '-'.

When an even-Stage place notation comprises the two external Places only, this may be abbreviated to either just 1st's Place or just the highest-numbered Place of the Change because the other external Place can be inferred.
5. When a place notation includes external Place(s) (i.e. 1st's Place and/or the highest-numbered Place of the Change) and internal Place(s), this may be abbreviated to just the internal Place(s) because the external Place(s) can be inferred.

When an even-Stage place notation comprises the two external Places only, this may be abbreviated to either just 1st's Place or just the highest-numbered Place of the Change because the other external Place can be inferred.
6. When using place notation to describe a sequence of Changes, a dot is inserted between the place notation for each change. However the dot is omitted on either side of a cross Change.
7. Many Methods have a sequence of Changes that takes the form A, B, ~A, C, where A is a sequence of Changes, ~A is the same sequence of Changes as A but in reverse order, and B and C are individual Changes.

There are various ways in which this can be represented in abbreviated form to avoid writing out the full place notation.
8. Extended place notation is required to describe Jump Changes. There is not yet a standard form of extended place notation though several forms have been proposed.

Appendix B. Method Name Syntax

1. The purpose of this section is to define a set of recognised characters for use in Method Names. This is primarily to enable the growing number of software developers who make use of the Method Library to know which characters their applications should support.

The character sets below encompass all characters already used in the Method Library, plus many more.

The Central Council plans to make available a tool that will let users verify whether the characters they plan to use in a new Method Name are part of the recognised sets. The Central Council will also consider adding additional recognised characters on request. Requests can be emailed to methods@cccbr.org.uk.

The Method Name comparison process below ensures Method Names remain clearly unique. For example, as there is already a Method named 'London No.3 Surprise Royal', the process would prevent a new Method being named 'London No 3 Surprise Royal' or 'London No. 3 Surprise Royal'. This is considered beneficial to reduce the likelihood of misidentification of Methods.

2. In the following, 'the Unicode standard' refers to version 10.0.0. See <http://www.unicode.org/versions/Unicode10.0.0/>. Various attributes of individual characters are given in the files comprising the Unicode Character Database (UCD, <http://unicode.org/ucd/>), and particularly the file <https://www.unicode.org/Public/UCD/latest/ucd/UnicodeData.txt>, which contains both general category information and case folding information. Unicode blocks are defined in <https://www.unicode.org/Public/UCD/latest/ucd/Blocks.txt>. Normalization is described in https://www.unicode.org/reports/tr15/tr15-45.html#Norm_Forms.
3. Method Names are a sequence of from 1 to 120 characters selected from:
 - All those enumerated in the Unicode standard as being in the Basic Latin block and having a category of Lu, Ll, or Nd (upper and lower case letters, and digits;
 - All those enumerated in the Unicode standard as being in the Latin-1 Supplement block and having a category of Lu or Ll;
 - All those enumerated in the Unicode standard as being in the Latin Extended-A block, except Latin Small Letter N Preceded By Apostrophe;
 - All those enumerated in the Unicode standard as being in the Latin Extended-B block;
 - The Unicode characters named: Space, Exclamation Mark, Quotation Mark, Ampersand, Apostrophe, Left Parenthesis, Right Parenthesis, Comma, Hyphen-minus, Full Stop, Solidus, Equal Sign, Percent Sign, Question Mark, Pound Sign, Dollar Sign, Euro Sign and Trade Mark Sign;
 - The Unicode characters named: Superscript Zero, Superscript One, Superscript Two, Superscript Three, Superscript Four, Superscript Five, Superscript Six, Superscript Seven, Superscript Eight, Superscript Nine, Subscript Zero, Subscript One, Subscript Two, Subscript Three, Subscript Four, Subscript Five, Subscript Six, Subscript Seven, Subscript Eight and Subscript Nine;subject to the further constraints that a Method Name:
 - Must contain at least one character of Unicode general category Lu, Ll, or Nd; and
 - May neither begin nor end with a Space character, nor may it contain within it two consecutive Space characters.

4. Two Method Names are considered the same if they would be reduced to the same sequence of characters by the following process:
 - The sequence of characters is converted to Unicode Normalization Form KD (NFKD, Normalization Form Compatibility Decomposition);
 - All characters now appearing in the sequence that are not allowed in a Method Name, as per 3 above, are removed;
 - All characters for which the UCD defines a case folding are converted to that folded character (upper case);
 - The following conversions are made: 'Ø' to 'O', 'Æ' to the two character sequence 'AE', and 'Œ' to the two character sequence 'OE';
 - Each character for which the Unicode general category is not Lu or Nd is replaced by the Space character; and
 - Any Spaces now at the beginning or end of the sequence are removed, and any internal runs of two or more Space characters are replaced by a single Space character.
5. Notes:
 - The exclusion of Latin Small Letter N Preceded By Apostrophe is because that character is now deprecated in Unicode;
 - The normalization to NFKD followed by deletion of inappropriate characters eliminates diacritics, brings the superscript and subscript numerals to the baseline, and replaces '™' with the two character sequence 'TM';
 - Punctuation and symbols are ignored for Method Name comparisons. Thus 'London No.3' is the same as 'London No 3'. Less obviously, 'E=mc²' is the same as 'e & (MC)₂'. Given how rare, and potentially troublesome, punctuation is in Method Names, this seems a small price to pay, as in practice it just prevents otherwise likely pathological Method Names from being used.
6. Additional background on Method Names and Method Name syntax is available at <https://cccbr.github.io/images/syntax/method-name-syntax.html> in an article written by Don Morrison.

Appendix C. Leadhead Codes

A. Leadhead Grouping

1. Methods that have a first leadhead that is the same as one of the leadheads found in the Plain Course of Plain Bob or Grandsire have been assigned a code according to the order in which the leadheads occur in its Plain Course. They are a useful shorthand for communicating the Lead order of a Method.

Originally lowercase letters were ascribed and these were later extended with numbers to cover higher stages. In the framework the codes associated with the letters p, q, r and s have been renumbered to include the leadheads previously omitted before the Differential classes were added.

Methods with Plain Bob leadheads are split into different leadhead groups according to the place notation (where n is the Stage) immediately before the leadhead as follows:

- Those with even Stages and a lead end place notation of 12 have codes a-f
- Those with even Stages and a lead end place notation of 1n have codes g-m
- Those with odd Stages and a lead end place notation of 12n have codes p-q
- Those with odd Stages and a lead end place notation of 1 have codes r-s

Methods with Grandsire leadheads are split into different leadhead groups according to the place notation (where n is the Stage) immediately after the leadhead as follows:

- Those with odd Stages and a place notation of 3 following the leadhead have codes a-f
- Those with odd Stages and a place notation of n following the leadhead have codes g-m
- Those with even Stages and a place notation of 3n following the leadhead have codes p-q
- Those with even Stages and a place notation of - following the leadhead have codes r-s

Any methods not falling in the above groupings are not given a leadhead code even if they have Plain Bob or Grandsire leadheads.

B. Plain Bob Leadhead Codes for Even Stages

LH Code		Minimus	Minor	Major	Royal	Maximus	Fourteen	Sixteen
PN12	PN1n							
a	g	1342	135264	13527486	1352749608	13527496E8T0	13527496E8A0BT	13527496E8A0CTDB
b	h		156342	15738264	1573920486	157392E4T608	157392E4A6B8T0	157392E4A6C8D0BT
c	j			17856342	1795038264	1795E3T20486	1795E3A2B4T608	1795E3A2C4D6B8T0
c1	j1				1907856342	19E7T5038264	19E7A5B3T20486	19E7A5C3D2B4T608
c2	j2					1ET907856342	1EA9B7T5038264	1EA9C7D5B3T20486
c3	j3						1ABET907856342	1ACED9B7T5038264
c4	j4							1CDABET907856342
d4	k4							1DBCTA0E89674523
d3	k3						1BTA0E89674523	1BTD0C8A6E492735
d2	k2					1T0E89674523	1T0B8A6E492735	1T0B8D6C4A2E3957
d1	k1				1089674523	108T6E492735	108T6B4A2E3957	108T6B4D2C3A5E79
d	k			18674523	1860492735	18604T2E3957	18604T2B3A5E79	18604T2B3D5C7A9E
e	l		164523	16482735	1648203957	1648203T5E79	1648203T5B7A9E	1648203T5B7D9CEA
f	m	1423	142635	14263857	1426385079	142638507T9E	142638507T9BEA	142638507T9BEDAC

C. Plain Bob Leadhead Codes for Odd Stages

LH Code		Doubles	Triples	Caters	Cinques	Sextuples	Septuples	Octuples
PN12n	PN1							
p	r	13524	1352746	135274968	13527496E80	13527496E8A0T	13527496E8A0CTB	13527496E8A0CTFBD
p1	r1	15432	1573624	157392846	157392E4068	157392E4A6T80	157392E4A6C8B0T	157392E4A6C8F0DTB
p2	r2		1765432	179583624	1795E302846	1795E3A2T4068	1795E3A2C4B6T80	1795E3A2C4F6D8B0T
p3	r3			198765432	19E70583624	19E7A5T302846	19E7A5C3B2T4068	19E7A5C3F2D4B6T80
p4	r4				1E098765432	1EA9T70583624	1EA9C7B5T302846	1EA9C7F5D3B2T4068
p5	r5					1ATE098765432	1ACEB9T70583624	1ACEF9D7B5T302846
p6	r6						1CBATE098765432	1CFADEB9T70583624
p7	r7							1FDCBATE098765432
q6	s6							1DBFTCOA8E6947253
q5	s5						1BTCOA8E6947253	1BTD0F8C6A4E29375
q4	s4					1T0A8E6947253	1T0B8C6A4E29375	1T0B8D6F4C2A3E597
q3	s3				108E6947253	108T6A4E29375	108T6B4C2A3E597	108T6B4D2F3C5A7E9
q2	s2			186947253	18604E29375	18604T2A3E597	18604T2B3C5A7E9	18604T2B3D5F7C9AE
q1	s1		1647253	164829375	1648203E597	1648203T5A7E9	1648203T5B7C9AE	1648203T5B7D9FECA
q	s	14253	1426375	142638597	142638507E9	142638507T9AE	142638507T9BECA	142638507T9BEDAFC

D. Grandsire Leadhead Codes for Odd Stages

LH Code		Doubles	Triples	Caters	Cinques	Sextuples	Septuples	Octuples
PN3	PNn							
a	g	12534	1253746	125374968	12537496E80	12537496E8A0T	12537496E8A0CTB	12537496E8A0CTFBD
b	h		1275634	127593846	127593E4068	127593E4A6T80	127593E4A6C8B0T	127593E4A6C8F0DTB
c	j			129785634	1297E503846	1297E5A3T4068	1297E5A3C4B6T80	1297E5A3C4F6D8B0T
c1	j1				12E90785634	12E9A7T503846	12E9A7C5B3T4068	12E9A7C5F3D4B6T80
c2	j2					12AET90785634	12AEC9B7T503846	12AEC9F7D5B3T4068
c3	j3						12CABET90785634	12CAFED9B7T503846
c4	j4							12FCDABET90785634
d4	k4							12DFBCTA0E8967453
d3	k3						12BCTA0E8967453	12BDTFC0A8E49375
d2	k2					12TA0E8967453	12TB0C8A6E49375	12TB0D8F6C4A3E597
d1	k1				120E8967453	120T8A6E49375	120T8B6C4A3E597	120T8B6D4F3C5A7E9
d	k			128967453	12806E49375	12806T4A3E597	12806T4B3C5A7E9	12806T4B3D5F7C9AE
e	l		1267453	126849375	1268403E597	1268403T5A7E9	1268403T5B7C9AE	1268403T5B7D9FECA
f	m	12453	1246375	124638597	124638507E9	124638507T9AE	124638507T9BECA	124638507T9BEDAFC

E. Grandsire Leadhead Codes for Even Stages

LH Code		Minimus	Minor	Major	Royal	Maximus	Fourteen	Sixteen
PN12n	PN1							
p	r		125364	12537486	1253749608	12537496E8T0	12537496E8A0BT	12537496E8A0CTDB
p1	r1			12758364	1275930486	127593E4T608	127593E4A6B8T0	127593E4A6C8D0BT
p2	r2				1297058364	1297E5T30486	1297E5A3B4T608	1297E5A3C4D6B8T0
p3	r3					12E9T7058364	12E9A7B5T30486	12E9A7C5D3B4T608
p4	r4						12AEB9T7058364	12AEC9D7B5T30486
p5	r5							12CADEB9T7058364
q6	s6							12DCBATE09876543
q5	s5						12BATE09876543	12BDTCOA8E694735
q4	s4					12TE09876543	12TB0A8E694735	12TB0D8C6A4E3957
q3	s3				1209876543	120T8E694735	120T8B6A4E3957	120T8B6D4C3A5E79
q2	s2			12876543	1280694735	12806T4E3957	12806T4B3A5E79	12806T4B3D5C7A9E
q1	s1		126543	12684735	1268403957	1268403T5E79	1268403T5B7A9E	1268403T5B7D9CEA
q	s	1243	124635	12463857	1246385079	124638507T9E	124638507T9BEA	124638507T9BEDAC

Appendix D. Method Extension Processes

A. Definitions

1.	Cycle of Working Bells	A Cycle of Working Bells is a set of bells that successively occupy each other's Places at the Leadheads of a Method's Plain Course.
2.	Plain Bob Leadheads	A Method is said to have Plain Bob Leadheads if it can be Rotated (if needed) to start from a Change such that the treble leads at the Leadends and Leadheads, and the Leadends and Leadheads of the Method's Plain Course all occur in a Plain Course of the Method Plain Bob at the same Stage.
3.	Coursing	Two Hunt Bells are said to Course if they follow the same Path, and one Hunt Bell rings in the same Places as the other Hunt Bell at an interval of two Rows apart.
4.	Mode	The Mode of an Extension Process specifies which Places remain static, and which Places expand.

B. General

1. Below are the Extension Processes that are currently recognised by the Central Council for extending Methods to higher Stages.
2. Only one Extension Process may be used to extend any one Method to a given Stage -- Extension Processes may not be combined.

1. Extension Process 1

Process 1 keeps the Length of the Plain Lead constant. The resulting Extension is two Stages higher than the Parent Method.

Prerequisites

The prerequisites for this Extension Process are as follows:

1. The Parent Method is a Method with no Hunt Bells, or a Hunter (including a Differential Hunter) with a Hunt Bell that has a Little Path.
2. The Parent Method does not use Jump Changes.

Steps

The steps to implement this Extension Process are shown using the following example where Little Bob Minor is the Parent Method:

Minor			Major			Royal			Maximus		
pn	<=m	>m	pn	<=m	>m	pn	<=m	>m	pn	<=m	>m
x			x			x			x		
16	1	6	18	1	8	10	1	0	1T	1	T
x			x			x			x		
14	14		14	14		14	14		14	14	
x			x			x			x		
16	1	6	18	1	8	10	1	0	1T	1	T
x			x			x			x		
12	12		12	12		12	12		12	12	

1. Select a Mode m to be used, where m is greater than or equal to 1, and less than the Stage of the Parent Method. In the example above, the selected Mode is 4.
2. Divide the place notation (shown in column pn) of the Parent Method into Places Made up to and including the Mode, and Places Made above the Mode. These Places are entered in the columns headed <=m and >m respectively.
3. To obtain the first Extension (which is two Stages higher = Major), leave the Places in column <=m unchanged, and increase the Places in column >m by 2. See the box for Major above.
4. Then recombine the Places in column <=m and column >m to obtain the place notation for the Extension to Major.
5. The above can be repeated to obtain additional Extensions in steps of 2 Stages, as shown above for Royal and Maximus.

Requirements

An Extension produced using Extension Process 1 is only valid if:

1. The Extension has the same Symmetry (see Section 4.B) as the Parent Method.
2. The Extension has the same number of Hunt Bells as the Parent Method, unless the Parent Method only has Hunt Bells and has no Working Bells, in which case the Extension also only has Hunt Bells.

3. The Extension has the same number of Cycles of Working Bells as the Parent Method.
4. If the Parent Method comprises two or more Cycles of Working Bells of equal size, the Extension has this same feature.
5. If the Parent Method has Plain Bob Leadheads, the Extension also has Plain Bob Leadheads. If the Parent Method does not have Plain Bob Leadheads, the Extension also does not have Plain Bob Leadheads.
6. The Extension Construction used, when applied to the Parent Method in question, creates an Extension Path containing a minimum of 3 Methods (including the Parent Method) with Stages that are less than or equal to Stage 24.

Extension Construction

1. The Extension Construction for referring to this Extension Process is 'EP1-m', where EP1 refers to Extension Process 1, and m is the Mode. So Little Bob Minor is extended using Extension Construction EP1-4.
2. When two or more Modes produce the same Extension, the lowest Mode is designated as the Mode used. For example, Extension Constructions EP1-4 and EP1-5 both give the same Extensions for Little Bob Minor. EP1-4 is therefore designated as the Extension Construction used.

2. Extension Process 2

Extension Process 2 extends a Parent Method that has one Hunt Bell by adding a second Hunt Bell. Both Hunt Bells in the Extension hunt one Place further from the lead than the Hunt Bell does in the Parent Method, and the Hunt Bells Course in the Extension. The resulting Extension is one Stage higher than the Parent Method, and the Length of the Plain Lead is increased by 2 Changes.

Prerequisites

The prerequisites for this Extension Process are as follows:

1. The Parent Method is a Hunter with a single Hunt Bell. The Hunt Bell follows a plain hunting Path (i.e. the Path consists of Hunting up to nth's Place, Making nth's, Hunting down to mth's Place, Making mth's). The plain hunting Path may be a Little Path or a non-Little Path.
2. No Places are Made above the Hunt Bell Place that transitions the Hunt Bell from Hunting up to Hunting down.
3. No places are Made below the Hunt Bell Place that transitions the Hunt Bell from Hunting down to Hunting up.
4. The Parent Method does not use Jump Changes.

Steps

The steps to implement this Extension Process are shown using the following example where St Simon's Bob Doubles is the Parent Method:

Doubles			
pn	B	H	A
5			5
1	1		
5			5
3	3		
5		5	
3	3		
5			5
1	1		
5			5
125		1	25

Minor			
pn	B	H	A
16		1	6
x			
16	1		6
x			
36	3	6	
x			
36	3	6	
x			
16	1		6
x			
16		1	6
36			36

1. Rotate the Parent Method (if necessary) so that the lower Place of the Hunt Bell is the Lead End Change.
2. Divide the place notation (shown in column pn) of the Parent Method into Places Made below the Hunt Bell, Places Made by the Hunt Bell, and Places Made above the Hunt Bell. These Places are entered in the columns headed B, H and A respectively.
3. Start by copying all the Places Made in the Parent Method (split into columns B, H and A) to the same Changes in the Extension.
4. Place Made below the Hunt Bell are left unchanged in the Extension. See the four Places in column B in the example above (highlighted in green).

5. Insert a new Change at the start of the Plain Lead and another new Change at the end of the Plain Lead.
6. Move the upper Place for the Hunt Bell one Place higher, and also move it one Change earlier in the Plain Lead. So 5 in the Parent Method in column H becomes 6 in the Extension one Change earlier (highlighted in lighter blue).
7. Add Places for the additional Hunt Bell two changes after the Places for the original Hunt Bell. See the added 1 and 6 in column H in the example above (highlighted in darker blue), noting that the additional 1 has wrapped around to be the first Change of the Plain Lead.
8. Move the Places above the Hunt Bells that are Made before the Hunt Bells reach their higher Places one Place higher, and also move them one Change earlier in the Plain Lead. So 5 and 5 in the Parent Method in column A become 6 and 6 in the Extension one Change earlier (highlighted in lighter pink).
9. Move the Places above the Hunt Bells that are Made after the Hunt Bells reach their higher Places one Place higher, and also move them one Change later in the Plain Lead. So 5, 5 and 25 in the Parent Method in column A become 6, 6 and 36 in the Extension one Change later (highlighted in darker pink).
10. Then recombine the Places in columns B, H and A to obtain the place notation for the Extension to Minor.
11. Rotate the new Method if required to give the desired Extension.

Extension Construction

1. The Extension Construction for referring to this Extension Process is 'EP2', where EP2 refers to Extension Process 2. So St Simon's Bob Doubles is extended using Extension Construction EP2. This Extension Process does not use any parameters.

3. Extension Process 3

Extension Process 3 extends a Parent Method by copying and possibly expanding some of its Changes. This Extension Process is designed to extend Parent Methods that are Hunters with a Hunt Bell that has a non-Little Path. The resulting Extension is an even number of Stages higher than the Parent Method.

Extension Process 3 is undoubtedly complex, requiring many steps to implement. However it is the Extension Process that has been used to name the greatest number of Extensions in the Methods Library, and it gives results that often correspond to how a ringer might expect a Method to extend by visual inspection of the Method's blue line.

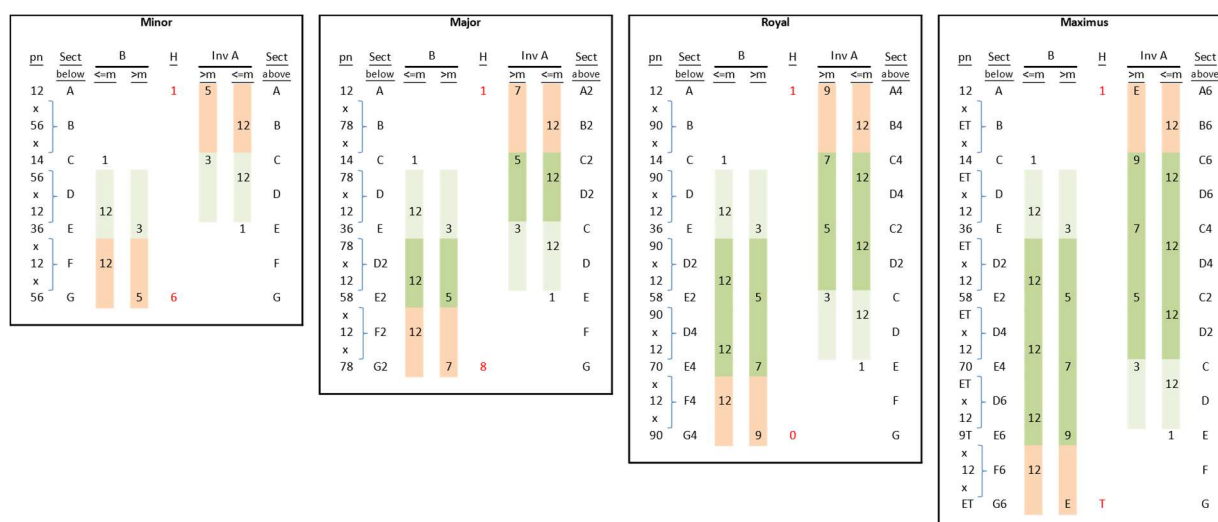
Prerequisites

The prerequisites for this Extension Process are as follows:

1. The Parent Method is a non-Little Plain or Treble Dodging Method, or a non-Little Alliance Method with a Hunt Bell Path formed from these two. This Extension Process may also be applied to some other forms of Hunter with a Hunt Bell that has a non-Little Path.
2. The Parent Method does not use Jump Changes.

Steps

The steps to implement this Extension Process are shown using the following example where Milton Surprise Minor is the Parent Method:



1. Rotate the Parent Method (if necessary) so that the bell in 1st's Place at the initial Row (referred to as the treble for the rest of this section) is a Hunt Bell that has a non-Little Path.
2. Group the place notation (shown in column pn) into sections depending on the Place of the treble, as follows:
 - A -- treble leading
 - B -- treble in 1-2
 - C -- treble in 2-3
 - D -- treble in 3-4 or lying in Singles

- E -- treble in 4-5 or lying in Minimus
- F -- treble in 5-6 or lying in Doubles
- G -- treble in 6-7 or lying in Minor
- H -- treble in 7-8 or lying in Triples
- I -- treble in 8-9 or lying in Major
- etc.

The section letters are shown in the example above under the 'Sect below' and 'Sect above' headings. Note that in the Parent Method these two columns each contain the same section letters - this changes in the Extensions.

3. Select a Mode m to be used above the treble and below the treble. Mode is greater than or equal to 1, and less than the Stage of the Parent Method. In the example above, Mode 2 has been selected for both above and below the treble. However, the Modes can be different above and below.
4. Divide the place notation (shown in column pn) of the Parent Method into Places Made below the treble ('B'), Places Made by the treble ('H' for Hunt Bel), and Places Made above the treble ('A').
5. The Places Made above the treble are then inverted -- i.e. they are counted from the back of the Row instead of from the front. For example, 5th's Place in Minor becomes 2nd's Place when counted from the back.
6. Then sub-divide the Places above the treble and below the treble into those that are less than or equal to the Mode, and those greater than the Mode. In the example above, since the Mode selected is 2, Places in 1st's or 2nd's are in one sub-division, and the other Places are in the other sub-division.
7. The resulting Places are then entered into their respective 5 columns as shown above: B ($\leq m$), B ($> m$), H, Inv A ($> m$), and Inv A ($\leq m$), where m is the Mode.
8. Select a set of adjacent sections below the treble to copy. There must be an even number of adjacent sections in the set. In the example above, sections D and E have been chosen for copying (shaded in lighter green).
9. Determine the step size. The step size is equal to the number of sections in the set selected for copying. In the example above, since two sections have been selected (D and E), the step size is 2. The step size also determines the number of Stages higher the Extension will be. In the example above with a step size of 2, Minor will be extended to Major.
10. The Places in the selected sections are copied and inserted into the sequence immediately following the selected sections.
For Places that are less than or equal to the Mode, no changes are made to these Places during the copying.
For Places that are greater than the Mode, these are increased by the step size when copied.
In the example above, the inserted sections are shown in darker green. It can be seen that Places 12 remain as 12 in the inserted sections, whereas 3 becomes 5 in the inserted sections.
11. The inserted sections are given the same lettering as the sections they were copied from, but modified to reflect the increase of the Places. So in the Extension to Major, D and E are copied to new sections that are labelled D2 and E2 respectively, where 2 is the step size.

12. Places in the sections following the sections that have been inserted are also increased by the step size if they are greater than the Mode m .
In the example above, the sections following the inserted sections are shaded in orange. It can be seen that Places 12 remain 12, whereas 5 becomes 7 in the Extension.
13. The lettering of the sections following the inserted sections is modified to reflect the increase of the Places. In the example above, F and G in the Parent Method become F2 and G2 in the Extension to Major.
14. The process for extending the Places above the treble is the same as below the treble, except that the copying and expanding occurs in the reverse direction (i.e. starting from the half lead and working back towards the start of the lead), and the Mode is counted from the back of the Row instead of from the front. In the example above, sections C and D are selected for copying above the treble. These are inserted earlier in the lead as C2 and D2 respectively. The sections before the inserted sections (A and B) become A2 and B2 respectively in the Extension to Major.
15. Increase the upper Place of the treble by the step size and move it to the new Halflead Change. So 6 in Minor becomes 8 in Major in the example above.
16. Then reinvert the Places in the two Inv A columns, and recombine the Places in all 5 columns to obtain the place notation for the Extension.
17. Rotate the new Method if required to give the desired Extension.
18. To obtain further Extensions at higher Stages, each higher by the step size, the sections selected for copying can be inserted repeatedly, increasing the Places that are greater than the Mode by the step size for each insertion. In the example above, Royal is obtained by inserting the D, E sections below the treble twice, once as D2, E2, and again as D4, E4. To obtain Maximus, the C, D sections above the treble have been inserted three times, once as C2, D2, once as C4, D4, and again as C6, D6.

Requirements

An Extension produced using Extension Process 3 is only valid if:

1. The Extension has the same Symmetry (see Section 4.B) as the Parent Method.
2. The Extension has the same number of Hunt Bells as the Parent Method, unless the Parent Method only has Hunt Bells and has no Working Bells, in which case the Extension also only has Hunt Bells.
3. The Extension has the same number of Cycles of Working Bells as the Parent Method.
4. If the Parent Method comprises two or more Cycles of Working Bells of equal size, the Extension has this same feature.
5. If the Parent Method has Plain Bob Leadheads, the Extension also has Plain Bob Leadheads. If the Parent Method does not have Plain Bob Leadheads, the Extension also does not have Plain Bob Leadheads.
6. The Extension Construction used, when applied to the Parent Method in question, creates an Extension Path containing a minimum of 3 Methods (including the Parent Method) with Stages that are less than or equal to Stage 24.

Extension Construction

1. The Extension Construction for referring to this Extension Process is 'EP3-[Mode above the treble][sections copied above the treble]/[Mode below the treble][sections copied below the treble]'.
For example, if the Mode is 2, and sections C and D are copied above the treble, and sections D and E are copied below the treble, the Extension Construction would be EP3-2CD/2DE.
2. EP3 refers to Extension Process 3. In the example above, the Mode was 2 both above and below the treble. Sections C and D were copied above the treble, and sections D and E were copied below the treble. The Extension Construction used in the example is therefore EP3-2CD/2DE.

Other considerations

1. The example above uses a set of two adjacent sections to be copied and inserted, giving an Extension that is two Stages higher. Larger sets of sections can be copied and inserted, provided the number of sections is even. For example, sections D, E, F and G could be selected for copying and inserting. Since four sections are involved, the step size is 4, and so the first Extension would be four Stages higher than the Parent Method. D4, E4, F4 and G4 sections would be inserted in the first Extension. In the next Extension (which would be eight Stages higher than the Parent Method), D8, E8, F8 and G8 sections would also be inserted, and so on. Superlative Surprise Major is an example of a Method that extends in steps of 4 Stages. The Extension Construction for Superlative's Extension Process is EP3-3ABCD/3FGHI.
2. Different size sets of sections may be copied and inserted above and below the treble. For example, sections D, E, F and G could be selected below the treble, and sections A and B could be selected above the treble. In order to extend the Length of the Plain Lead by the same number of Changes above and below the treble, the sections above the treble would need to be copied and inserted twice for every one time the sections below the treble are copied and inserted. The resulting Extension in this example is four Stages higher than the Parent Method. So D4, E4, F4 and G4 sections would be inserted below the treble in the first Extension, and A4, B4, A2 and B2 sections would be inserted above the treble in the first Extension. For example, there is an Extension Process for Cambridge Surprise Major that uses steps of 2 above the treble and steps of 4 below the treble. The Extension Construction for this Extension Process is EP3-1AB/4CDEF.
3. When the same results are obtained by copying different sections, designate the sections closest to the start of the lead as the ones that were copied. This ensures that whatever Stage Method is taken as the Parent Method in a set of Methods that are on the same Extension Path, the same Extension Construction will result. E.g. in the Milton Surprise Minor example above, it can be seen that if sections A and B were copied above the treble instead of sections C and D (while keeping the Mode as 2) the same results would be obtained. Therefore the Extension Construction for Milton Surprise Minor above should be described as EP3-2AB/2DE, rather than EP3-2CD/2DE. (The CD sections above the treble were used in the example above to show what happens to the AB sections above the treble in the Extension.)
4. When two or more different Modes give the same results, designate the Mode used as the lowest one.
5. Finally, the example and descriptions above assume the Parent Method has Palindromic Symmetry about the Leadend Change and the Halflead Change. For non-Palindromic Methods, Extension Process 3 may be applied separately in both halves of the Plain Lead, subject to the following:

6. If the Places Made below the treble are Palindromic, or the Places Made above the treble are Palindromic, then an Extension Construction is selected that retains that symmetry in the Extension.
7. If the Places Made above the treble in the first half of the Plain Lead have Rotational Symmetry with the Places Made below the treble in the second half of the Plain Lead, or the Places Made below the treble in the first half of the Plain Lead have Rotational Symmetry with the Places Made above the treble in the second half of the Plain Lead, then an Extension Construction is selected that retains that symmetry in the Extension.
8. An example of an Extension Construction for a non-Palindromic Method is EP3-1AB/2DE/3JK/2OP. The four copied sections are respectively:
 - Above the treble before the Halflead Change;
 - Below the treble before the Halflead Change;
 - Below the treble after the Halflead Change; and
 - Above the treble after the Halflead Change.

Appendix E. Framework Development

A. Mandate

The framework has been developed following the passage of CRAG's Proposal H at the May 2017 Central Council meeting.

Proposal H stated that: 'The Decisions of the Central Council will be replaced with a simple and permissive descriptive framework for ringing with only the minimal detail required to maintain the historical record. The Executive will appoint a neutral and respected ringer who is demonstrably independent of those responsible for the current Decisions to complete this work. The leader may assemble a group of ringers to assist with this task and will consult widely on their proposals before presenting them to the Council in May 2018. The publication and maintenance of this framework will be the responsibility of the Executive.'

B. Team

Tim Barnes was appointed by Christopher O'Mahony, CC President, to lead the development of the framework. Two groups were formed:

- A drafting group comprising Tim Barnes, Mark Davies, John Harrison, Graham John and Philip Saddleton developed the initial, draft language for the framework.
- A review group comprising Philip Earis, Andrew Johnson, Don Morrison, Peter Scott, Leigh Simpson, Richard Smith, Derek Williams and Robin Woolley reviewed the draft language and provided feedback.

Broader consultations were then held with the ringing community to gather feedback and further refine the framework.

C. Goals

1. Description not prescription (the 'permissive' part of the CRAG proposal): Avoid arbitrary rules and value judgements. Seek to find the logical boundaries that define the limits of method ringing, and ensure the framework supports everything within these boundaries. The boundaries used are shown in Section B below.
2. Simple, generic and consistent (the 'simple' part of the CRAG proposal): The more straightforward the framework is, the more widely it will be understood across the ringing community and the more accessible it will be to new ringers joining the Exercise. Standardise terms and requirements where this increases simplicity while retaining historical meaning. However, it is also recognised that method ringing has inherent complexity resulting from both its mathematical foundation and its rich history, such that not all complexity can be eliminated.
3. Support all Lengths of ringing: The CRAG mandate calls for a simple and permissive descriptive framework for *ringing*, not just Peal ringing. Cover all Lengths -- from Short Touches to Record Lengths.
4. Continuity: Most standard Methods and Performances should continue to be described as they are today, or with limited alterations where there are clear standardisation or simplification benefits. This is the 'maintain the historical record' part of the CRAG proposal.

- Define and explain: Terms used in the framework should be clearly defined. Include examples and explanations to assist in the understanding of the framework. For ease of reference, capitalise terms that are defined in the framework whenever they are used elsewhere in the framework.

D. Boundaries

1. Scope

The scope of the framework is method ringing (also called scientific ringing). It does not cover call (or called) changes, nor tune ringing. Cylindrical ringing, where a bell can ring twice in some Rows, and not at all in others, is similarly out of scope.

2. Rows

In method ringing, the same set of bells rings in every Row, with each bell ringing exactly once in every Row.

Not method ringing:

1	2	3	4	5	6
2	1	3	5	4	6
2	3	1	5	6	
3	2	1	6	5	
3	1	2	6	4	5
1	3	2	4	6	5
1	2	3	4	5	6

Not method ringing:

1	2	3	4	5	6
2	1	3	5	4	6
2	3	1	5	6	7
3	2	1	6	5	7
3	1	2	6	4	5
1	3	2	4	6	5
1	2	3	4	5	6

Not method ringing:

1	2	3	4	5	6
2	1	3	5	4	2
6	1	5	3	2	4
1	6	5	2	3	1
4	6	2	5	1	3
6	4	2	1	5	6
3	4	1	2	6	5
4	3	1	6	2	4
5	3	6	1	4	2
3	5	6	4	1	3
2	5	4	6	3	1
5	2	4	3	6	5
1	2	3	4	5	6

3. Places

In method ringing, each bell rings in a different Place in the Row to every other bell.

Not method ringing:

1	2	3	4	5	6
2	1	3	5	4	6
1	2		3/5		4/6
		1/3/5		2/4/6	

where '/' indicates bells striking at the same time (i.e. a chord)

4. Changes

A Change may be any transformation of one Row to the next. This results in the definition of Jump Changes and Identity Changes in the framework. The term 'Adjacent Change' has also been introduced to be equivalent to the previous definition of 'change' in Decision (E) A.1.

5. Methods

In general, Methods are sequences of Changes that have been given names and which are recorded in the Central Council's Methods Library. Any sequence of Changes should be able to be named as a Method.

6. Truth

A Block of Rows is True if it comprises 0 to n Extents, plus 1 optional partial Extent. In other words, a Block of Rows is True if either (a) all of its Rows are distinct (only occur once) or (b) when the Block is longer than an Extent, any Rows that remain after removing all Extents are distinct. The location of individual Rows within a Block of Rows does not have any bearing on truth.

Note that the above is subject to (a) treatment of any Cover Bells in the Row (see 7. below), and (b) the related concept of 'Accepted Truth' as defined in the framework.

7. Cover Bells

A Row may include one or more Cover Bells. A Place that is occupied by the same Cover Bell in every Row of a Block (such a Place is referred to in the framework as a Fixed Place) is excluded when determining truth. Similarly, if Method(s), and/or Method(s) and Call(s), cause a bell to remain in the same Place in every Row of a Block, then this Place is also a Fixed Place and is excluded when determining truth.

E. Additional Considerations

1. Decisions to be replaced

We assume the intent of CRAG Proposal H is for the framework to replace Decisions D, E, F, G, I and J. Other Central Council Decisions are considered outside the scope of the framework.

2. Length and Stage

Ringling of all Lengths on all Stages should be treated alike for simplicity, consistency and permissiveness. The definitions should be relevant and applicable to all ringing, not just Peals. For example, the definition of True applies equally to Short Touches, Quarter Peals and Peals, and if 5000 changes is a Peal of Major, then it is also sufficient for a Peal of Minor.

3. Performance reporting

The Conditions for Peal Ringing in the current Decision (D) are being replaced by Performance Reporting requirements. Under this new permissive framework, bands decide what they wish to ring, and the onus is on them to determine if a Performance merits publication. The Performance Reporting requirements include disclosures for when the ringing is not covered by the framework, or when it is covered by the framework but includes characteristics that differ from established norms (for example, not starting and ending in Rounds). These disclosures can then be used in subsequent analyses of ringing Performances.

Appendix F. Transitional Arrangements

1. Title changes due to Classification changes

Under the framework, a small percentage of Methods in the Methods Library will be reclassified, which may lead to a change in their Method Titles, as described below.

Note that in the following, '|' delineates the Method Name, Class Descriptor and Stage Name in a Method Title.

- a) The Slow Course classification is being retired so these methods will now be classified as either Bob or Place. By default, the word 'Slow' will be added to the end of the Method Name only if this is necessary to maintain uniqueness of Method Titles. For example Candlesby | Slow Course | Doubles will become Candlesby | Bob | Doubles.
- b) Non-method blocks are also being retired, so these will now be classified in the same way as any other Method. By default, the word 'Block' will be added to the end of the Method Name for these Methods if 'Block' was an integral part of the previous Method Title. Otherwise 'Block' will not be added to the Method Name. E.g. Shakespeare Tower | Block | Minor is classified as a Surprise Method under the framework, so its title will become Shakespeare Tower Block | Surprise | Minor.
- c) The Hybrid classification is being retained, but these Methods will no longer use Hybrid in their Method Titles. By default, the word 'Hybrid' will not be added to the end of the Method Name for these Methods. In addition, Hybrid Methods are no longer subdivided into Little and non-Little Methods, so former Little Hybrid Methods will have neither Little nor Hybrid in their titles. E.g. Top | Little Hybrid | Maximus will become Top | | Maximus.
- d) Short course Methods (those with more than one Cycle of Working Bells, where all Cycles have the same length) will no longer be classified as Differential. The word 'Differential' will not be added to the end of the Method Name for these Methods. E.g. Baldrick | Differential Little Bob | Triples will become Baldrick | Little Bob | Triples.
- e) Methods with Hunt Bell symmetry about a Row rather than a Change will be reclassified from Hybrid to either Alliance or Treble Place, as applicable under the framework classification definitions.

In a very few cases, the new Method Title resulting from the above is the same as another existing Method. In these cases, a new Method Name to be used will be proposed by the Central Council, to be published shortly.

If the band that named a Method whose Title is changing from any of the above would like their Method named differently from the approaches above, they are invited to submit the proposed new name to the Technical & Taxonomy Workgroup at methods@cccbr.org.uk.

Amended Method Titles

This list includes methods rung up to 25 October 2018.

Method Names are highlighted in bold within the Method Titles.

Provisionally named Methods (i.e. those not yet added to the Library as they did not qualify at the time they were rung) are marked [P].

New titles that may need renaming to avoid a conflict with an existing or amended title are highlighted in red.

a) Remove Slow Course class (adding Slow to the name if required for uniqueness)

Method Title	Amended Title
Acton Town Slow Course Minor	Acton Town Bob Minor
Adrian Parry Slow Course Minor	Adrian Parry Bob Minor
Adzor Slow Course Minor	Adzor Bob Minor
Aggers Slow Course Minor	Aggers Bob Minor
All Saints Nottingham Slow Course Minor	All Saints Nottingham Bob Minor
Alpertown Slow Course Minor	Alpertown Bob Minor
Arnos Grove Slow Course Minor	Arnos Grove Bob Minor
Around 50 Slow Course Minor	Around 50 Bob Minor
Arsenal Slow Course Minor	Arsenal Bob Minor
Aylton Slow Course Minor	Aylton Bob Minor
Bagwyllydiart Slow Course Minor	Bagwyllydiart Bob Minor
Baker Street Slow Course Minor	Baker Street Bob Minor
Ballingham Slow Course Minor	Ballingham Bob Minor
Bank Slow Course Minor	Bank Bob Minor
Barons Court Slow Course Minor	Barons Court Bob Minor
Basin Reserve Slow Course Minor	Basin Reserve Bob Minor
Bearded Wonder Slow Course Minor	Bearded Wonder Bob Minor
Bedfont Slow Course Doubles	Bedfont Bob Doubles
Berkhamsted Slow Course Minor	Berkhamsted Bob Minor
Bermondsey Slow Course Minor	Bermondsey Bob Minor
Bilborough Slow Course Doubles	Bilborough Place Doubles
Black Cygnet Slow Course Major	Black Cygnet Bob Major
Black Cygnet Slow Course Minor	Black Cygnet Bob Minor
Black Swan Slow Course Minor	Black Swan Bob Minor
Blackfriars Slow Course Minor	Blackfriars Bob Minor
Blythburgh Slow Course Minor	Blythburgh Bob Minor
Bogan Slow Course Doubles	Bogan Bob Doubles
Bolstone Slow Course Minor	Bolstone Bob Minor
Bond Street Slow Course Minor	Bond Street Bob Minor
Boveney Slow Course Doubles	Boveney Place Doubles
Boycott Bingo Slow Course Minor	Boycott Bingo Bob Minor
Brecon Slow Course Doubles	Brecon Place Doubles
Brimpton Slow Course Minor	Brimpton Bob Minor
Bringsty Common Slow Course Minor	Bringsty Common Bob Minor
Bromyard Slow Course Minor	Bromyard Bob Minor
Broughton Slow Course Doubles	Broughton Place Doubles
Burlingjobb Slow Course Minor	Burlingjobb Bob Minor
Burnt Oak Slow Course Minor	Burnt Oak Bob Minor
Cambridgeshire Slow Course Doubles	Cambridgeshire Place Doubles
Candlesby Slow Course Caters	Candlesby Bob Caters
Candlesby Slow Course Doubles	Candlesby Bob Doubles
Candlesby Slow Course Triples	Candlesby Bob Triples
Canonford Slow Course Minor	Canonford Bob Minor
Cardiganshire Slow Course Doubles	Cardiganshire Bob Doubles
Carey Slow Course Minor	Carey Bob Minor
Caunton Slow Course Doubles	Caunton Bob Doubles
Centurion Slow Course Minor	Centurion Bob Minor
Chadnor Slow Course Minor	Chadnor Bob Minor

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Chalfont Slow Course Minor	Chalfont Slow Bob Minor
Chesham Slow Course Doubles	Chesham Bob Doubles
Chipping Barnet Slow Course Minor	Chipping Barnet Place Minor
Chipstead Slow Course Doubles	Chipstead Bob Doubles
Chocolate Cake Slow Course Minor	Chocolate Cake Bob Minor
Clewer Slow Course Major	Clewer Slow Bob Major
Clewer Slow Course Minor	Clewer Slow Bob Minor
CMJ Slow Course Minor	CMJ Bob Minor
Cockfosters Slow Course Minor	Cockfosters Bob Minor
Colnbrook Slow Course Doubles	Colnbrook Place Doubles
Colne Slow Course Doubles	Colne Bob Doubles
Coolydoody Slow Course Minor	Coolydoody Bob Minor
Cornwall Slow Course Doubles	Cornwall Place Doubles
Corridor of Uncertainty Slow Course Minor	Corridor of Uncertainty Bob Minor
Cottesmore Slow Course Minor	Cottesmore Bob Minor
Cover Slow Course Minor	Cover Bob Minor
Cow Corner Slow Course Minor	Cow Corner Bob Minor
Crane Slow Course Doubles	Crane Bob Doubles
Cranford Slow Course Doubles	Cranford Bob Doubles
Craswall Slow Course Minor	Craswall Bob Minor
Credenhill Slow Course Minor	Credenhill Bob Minor
Croxley Slow Course Minor	Croxley Bob Minor
Cwmyoy Slow Course Minor	Cwmyoy Bob Minor
Da Staines-upon-Thames Massive Slow Course Triples	Da Staines-upon-Thames Massive Bob Triples
Deep Extra Slow Course Minor	Deep Extra Bob Minor
Denbighshire Slow Course Doubles	Denbighshire Place Doubles
Dinmore Slow Course Minor	Dinmore Bob Minor
Dollis Hill Slow Course Minor	Dollis Hill Bob Minor
Dorney Slow Course Minor	Dorney Bob Minor
Dunwich Slow Course Minor	Dunwich Bob Minor
Durlow Common Slow Course Minor	Durlow Common Bob Minor
Ealing Common Slow Course Minor	Ealing Common Bob Minor
Eardisley Slow Course Minor	Eardisley Slow Bob Minor
Earls Court Slow Course Minor	Earls Court Bob Minor
Easily Done! Slow Course Minor	Easily Done! Bob Minor
East Finchley Slow Course Minor	East Finchley Bob Minor
East London Line Slow Course Minor	East London Line Bob Minor
Eastcote Slow Course Minor	Eastcote Bob Minor
Eaton Hill Slow Course Minor	Eaton Hill Bob Minor
Eden Gardens Slow Course Minor	Eden Gardens Bob Minor
Eden Park Slow Course Minor	Eden Park Bob Minor
Edgbaston Slow Course Minor	Edgbaston Slow Bob Minor
Edgware Road Slow Course Minor	Edgware Road Bob Minor
Edgware Slow Course Minor	Edgware Bob Minor
Edwyn Ralph Slow Course Minor	Edwyn Ralph Bob Minor
Eton Slow Course Doubles	Eton Place Doubles
Euston Square Slow Course Minor	Euston Square Bob Minor
Ewyas Harold Slow Course Minor	Ewyas Harold Slow Bob Minor
Finchley Central Slow Course Minor	Finchley Central Bob Minor
Finchley Road Slow Course Minor	Finchley Road Bob Minor
Fine Leg Slow Course Minor	Fine Leg Bob Minor
Finsbury Park Slow Course Minor	Finsbury Park Slow Bob Minor
Fly Slip Slow Course Minor	Fly Slip Bob Minor
Forden Slow Course Minor	Forden Bob Minor
Galle Slow Course Minor	Galle Place Minor
Garnons Slow Course Minor	Garnons Bob Minor
Garway Hill Slow Course Minor	Garway Hill Bob Minor
Glamorgan Slow Course Doubles	Glamorgan Place Doubles
Gloucester Road Slow Course Minor	Gloucester Road Bob Minor
Golders Green Slow Course Minor	Golders Green Bob Minor
Green Park Slow Course Minor	Green Park Bob Minor
Grosmont Slow Course Minor	Grosmont Bob Minor
Gully Slow Course Minor	Gully Bob Minor
Hammersmith Slow Course Minor	Hammersmith Slow Bob Minor
Hampstead Slow Course Minor	Hampstead Slow Bob Minor

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Harborne Slow Course Minor	Harborne Place Minor
Harlesden Slow Course Minor	Harlesden Bob Minor
Harmondsworth Slow Course Doubles	Harmondsworth Bob Doubles
Harrow-on-the-Hill Slow Course Minor	Harrow-on-the-Hill Bob Minor
Hascombe Slow Course Doubles	Hascombe Place Doubles
Haselbech Slow Course Major	Haselbech Slow Bob Major
Heathrow Slow Course Doubles	Heathrow Bob Doubles
Hegdon Slow Course Minor	Hegdon Bob Minor
Hergest Ridge Slow Course Minor	Hergest Ridge Bob Minor
Hilton Slow Course Minor	Hilton Bob Minor
Hoarwithy Slow Course Minor	Hoarwithy Bob Minor
Holborn Slow Course Minor	Holborn Bob Minor
Holywell Slow Course Minor	Holywell Bob Minor
Horton Slow Course Minor	Horton Slow Bob Minor
Houghton Slow Course Minor	Houghton Bob Minor
Huntingdonshire Slow Course Doubles	Huntingdonshire Slow Bob Doubles
Ickenham Little Slow Course Doubles	Ickenham Little Bob Doubles
Ickenham Slow Course Minor	Ickenham Bob Minor
Irongate Slow Course Minor	Irongate Bob Minor
Itchingfield Slow Course Doubles	Itchingfield Slow Bob Doubles
Jake Robert Slow Course Minor	Jake Robert Bob Minor
John Arlott Slow Course Minor	John Arlott Bob Minor
Johnners Slow Course Minor	Johnners Bob Minor
Julie McDonnell Slow Course Minor	Julie McDonnell Slow Bob Minor
Kempton Little Slow Course Doubles	Kempton Little Bob Doubles
Ken and Dorothy Nicholas' 50th Wedding Anniversary Slow Course Minor	Ken and Dorothy Nicholas' 50th Wedding Anniversary Bob Minor
Kensington Oval Slow Course Minor	Kensington Oval Bob Minor
Kentchurch Slow Course Minor	Kentchurch Bob Minor
Kentish Town Slow Course Minor	Kentish Town Bob Minor
Kilburn Slow Course Minor	Kilburn Bob Minor
King's Cross St Pancras Slow Course Minor	King's Cross St Pancras Bob Minor
Kingsbury Slow Course Minor	Kingsbury Bob Minor
Kingswood Slow Course Minor	Kingswood Bob Minor
Knightsbridge Slow Course Minor	Knightsbridge Bob Minor
Ledgemoor Slow Course Minor	Ledgemoor Bob Minor
Leg Over Slow Course Minor	Leg Over Bob Minor
Leg Slip Slow Course Minor	Leg Slip Bob Minor
Leicester Square Slow Course Minor	Leicester Square Bob Minor
Leicestershire Slow Course Doubles	Leicestershire Slow Bob Doubles
Lenton Slow Course Doubles	Lenton Slow Bob Doubles
Linley Green Slow Course Minor	Linley Green Bob Minor
Little Birch Slow Course Minor	Little Birch Bob Minor
Little Dewchurch Slow Course Minor	Little Dewchurch Bob Minor
Little Gaddesden Slow Course Minor	Little Gaddesden Bob Minor
Llangua Slow Course Minor	Llangua Bob Minor
Llanvenoe Slow Course Minor	Llanvenoe Bob Minor
Long Leg Slow Course Minor	Long Leg Bob Minor
Long Off Slow Course Minor	Long Off Bob Minor
Long On Slow Course Minor	Long On Bob Minor
Longford Slow Course Doubles	Longford Bob Doubles
Lyddington Slow Course Major	Lyddington Bob Major
Lyddington Slow Course Minor	Lyddington Bob Minor
Malvern Slow Course Minor	Malvern Bob Minor
Mansell Lacy Slow Course Minor	Mansell Lacy Bob Minor
Maplin Slow Course Major	Maplin Bob Major
Maplin Slow Course Minor	Maplin Bob Minor
Marylebone Slow Course Minor	Marylebone Slow Bob Minor
Merton Slow Course Doubles	Merton Bob Doubles
Mid Off Slow Course Minor	Mid Off Bob Minor
Mid On Slow Course Minor	Mid On Bob Minor
Mid Wicket Slow Course Minor	Mid Wicket Bob Minor
Mill Hill East Slow Course Minor	Mill Hill East Bob Minor
Monkhide Slow Course Minor	Monkhide Bob Minor
Munderfield Slow Course Minor	Munderfield Bob Minor

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My Dear Old Thing Slow Course Minor	My Dear Old Thing Bob Minor
Neasden Slow Course Minor	Neasden Slow Bob Minor
Newlands Slow Course Minor	Newlands Slow Bob Minor
North Ealing Slow Course Minor	North Ealing Bob Minor
North Harrow Slow Course Minor	North Harrow Bob Minor
North Wembley Slow Course Minor	North Wembley Bob Minor
Northamptonshire Slow Course Doubles	Northamptonshire Bob Doubles
Northwick Park Slow Course Minor	Northwick Park Bob Minor
Norwell Slow Course Doubles	Norwell Place Doubles
Nupton Slow Course Minor	Nupton Bob Minor
Oakley Slow Course Doubles	Oakley Bob Doubles
Oakwood Slow Course Minor	Oakwood Bob Minor
Ockham Slow Course Doubles	Ockham Place Doubles
Old Hill Slow Course Minor	Old Hill Place Minor
Old Street Slow Course Minor	Old Street Bob Minor
Osterley Slow Course Minor	Osterley Bob Minor
Oxford Circus Slow Course Minor	Oxford Circus Bob Minor
Oxfordshire Slow Course Doubles	Oxfordshire Slow Bob Doubles
Paddington Slow Course Minor	Paddington Bob Minor
Pembrokeshire Slow Course Doubles	Pembrokeshire Place Doubles
Piccadilly Circus Slow Course Minor	Piccadilly Circus Bob Minor
Pinchbeck Slow Course Doubles	Pinchbeck Bob Doubles
Pixley Slow Course Minor	Pixley Bob Minor
Plastic Swan Slow Course Minor	Plastic Swan Bob Minor
Point Slow Course Minor	Point Bob Minor
Portway Slow Course Minor	Portway Bob Minor
Poyle Slow Course Caters	Poyle Bob Caters
Poyle Slow Course Doubles	Poyle Bob Doubles
Poyle Slow Course Triples	Poyle Bob Triples
Premadasa Slow Course Minor	Premadasa Bob Minor
Prince George Alexander Louis Slow Course Doubles	Prince George Alexander Louis Bob Doubles
Princess Charlotte Elizabeth Diana Slow Course Doubles	Princess Charlotte Elizabeth Diana Bob Doubles
Prior's Frome Slow Course Minor	Prior's Frome Bob Minor
Pyon Slow Course Minor	Pyon Bob Minor
Queensbury Slow Course Minor	Queensbury Bob Minor
Ravensingham Slow Course Doubles	Ravensingham Place Doubles
Regent's Park Slow Course Minor	Regent's Park Bob Minor
Rhiannon Margaret Slow Course Minor	Rhiannon Margaret Bob Minor
Rickmansworth Slow Course Minor	Rickmansworth Slow Bob Minor
Ridge Hill Slow Course Minor	Ridge Hill Place Minor
Risbury Slow Course Minor	Risbury Bob Minor
Rowlstone Slow Course Minor	Rowlstone Bob Minor
Rugby Slow Course Doubles	Rugby Bob Doubles
Runemede Slow Course Doubles	Runemede Place Doubles
Russell Square Slow Course Minor	Russell Square Bob Minor
Ruth's on the Treble Slow Course Minor	Ruth's on the Treble Bob Minor
Sabina Park Slow Course Minor	Sabina Park Bob Minor
Salcombe Slow Course Minor	Salcombe Bob Minor
Saltby Slow Course Minor	Saltby Slow Bob Minor
Sam Maguire Slow Course Minor	Sam Maguire Place Minor
Sarnia Slow Course Minor	Sarnia Bob Minor
Scarletts Slow Course Doubles	Scarletts Bob Doubles
Shelford Slow Course Doubles	Shelford Bob Doubles
Shilpa Slow Course Minor	Shilpa Bob Minor
Shipping Forecast Slow Course Minor	Shipping Forecast Bob Minor
Shoreditch Slow Course Minor	Shoreditch Bob Minor
Shucknall Slow Course Minor	Shucknall Bob Minor
Slapton Slow Course Doubles	Slapton Slow Bob Doubles
Slip Slow Course Minor	Slip Bob Minor
Snitterfield Slow Course Minor	Snitterfield Bob Minor
Somerset Slow Course Doubles	Somerset Slow Bob Doubles
South Kensington Slow Course Minor	South Kensington Bob Minor
Southgate Slow Course Minor	Southgate Bob Minor
Spital Little Slow Course Doubles	Spital Little Place Doubles
Square Leg Slow Course Minor	Square Leg Bob Minor

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St Deiniols Slow Course Minor	St Deiniols Bob Minor
St Edmund Slow Course Doubles	St Edmund Bob Doubles
St George East Bristol Slow Course Minor	St George East Bristol Bob Minor
St James's Park Slow Course Minor	St James's Park Bob Minor
St John Cardiff Slow Course Minor	St John Cardiff Bob Minor
St Mary Staines Slow Course Minor	St Mary Staines Bob Minor
St Sepulchre's Slow Course Doubles	St Sepulchre's Bob Doubles
St Ursula the Fat Slow Course Doubles	St Ursula the Fat Bob Doubles
Stanmore Slow Course Minor	Stanmore Bob Minor
Stick of Rhubarb Slow Course Minor	Stick of Rhubarb Bob Minor
Stoke Edith Slow Course Minor	Stoke Edith Bob Minor
Surrey Slow Course Doubles	Surrey Place Doubles
Sutton Slow Course Minor	Sutton Bob Minor
Swiss Cottage Slow Course Minor	Swiss Cottage Bob Minor
Taff Slow Course Minor	Taff Bob Minor
Tarrington Slow Course Minor	Tarrington Bob Minor
The Alderman Slow Course Minor	The Alderman Bob Minor
The Angel Slow Course Minor	The Angel Bob Minor
The Bell Slow Course Minor	The Bell Bob Minor
The Bridge Slow Course Minor	The Bridge Bob Minor
The Castle Slow Course Minor	The Castle Bob Minor
The Dog Slow Course Minor	The Dog Bob Minor
The Gabba Slow Course Minor	The Gabba Bob Minor
The Plough Slow Course Minor	The Plough Bob Minor
The Primary Club Slow Course Minor	The Primary Club Bob Minor
Third Man Slow Course Minor	Third Man Bob Minor
Thornborough Slow Course Doubles	Thornborough Place Doubles
Tillington Common Slow Course Minor	Tillington Common Bob Minor
TMS Slow Course Minor	TMS Bob Minor
Tottenham Slow Course Minor	Tottenham Slow Bob Minor
Totteridge & Whetstone Slow Course Minor	Totteridge & Whetstone Bob Minor
Trent Bridge Slow Course Minor	Trent Bridge Place Minor
Trumpet Slow Course Minor	Trumpet Bob Minor
Trumpington Slow Course Minor	Trumpington Bob Minor
Turnant Slow Course Minor	Turnant Bob Minor
Turnham Green Slow Course Minor	Turnham Green Bob Minor
Twyford Little Slow Course Doubles	Twyford Little Bob Doubles
Uplyme Slow Course Minor	Uplyme Bob Minor
Utricularia Slow Course Minor	Utricularia Bob Minor
View from the Boundary Slow Course Minor	View from the Boundary Bob Minor
Vinedale Slow Course Minor	Vinedale Bob Minor
Vowchurch Slow Course Minor	Vowchurch Bob Minor
WACA Slow Course Minor	WACA Bob Minor
Wadenhoe Slow Course Minor	Wadenhoe Slow Bob Minor
Walterstone Slow Course Minor	Walterstone Bob Minor
Wankhede Slow Course Minor	Wankhede Bob Minor
Warren Street Slow Course Minor	Warren Street Bob Minor
Watford Slow Course Minor	Watford Bob Minor
Welshpool Slow Course Minor	Welshpool Bob Minor
Wembley Central Slow Course Minor	Wembley Central Bob Minor
Wenhaston Slow Course Minor	Wenhaston Bob Minor
West Finchley Slow Course Minor	West Finchley Bob Minor
West Harrow Slow Course Minor	West Harrow Bob Minor
Westhope Slow Course Minor	Westhope Bob Minor
Westmorland Slow Course Doubles	Westmorland Place Doubles
White Rocks Slow Course Minor	White Rocks Place Minor
Winkfield Slow Course Minor	Winkfield Bob Minor
Wollaton Slow Course Minor	Wollaton Slow Bob Minor
Woodton Slow Course Minor	Woodton Bob Minor
Wordsley Slow Course Minor	Wordsley Bob Minor
Wormbridge Slow Course Minor	Wormbridge Bob Minor
Wormsley Slow Course Minor	Wormsley Bob Minor
Wragby Slow Course Minor	Wragby Bob Minor
Yarsop Slow Course Minor	Yarsop Bob Minor
Yearsett Slow Course Minor	Yearsett Bob Minor

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Yeoveney Slow Course Doubles	Yeoveney Bob Doubles
Yorkshire Slow Course Doubles	Yorkshire Place Doubles

b) Non-method blocks become methods (moving 'Block' into the name where appropriate)

Method Title	Amended Title
12 Victoria Street Block Minor	12 Victoria Street Surprise Minor
Balfron Tower Block Minor	Balfron Tower Block Surprise Minor
Cromwell Tower Block Minor	Cromwell Tower Block Surprise Minor
Lauderdale Tower Block Minor	Lauderdale Tower Block Surprise Minor
Shakespeare Tower Block Minor	Shakespeare Tower Block Surprise Minor
Trellick Tower Block Minor	Trellick Tower Block Surprise Minor

c) Remove Hybrid and Little Hybrid from method titles (class unchanged)

Method Title	Amended Title
Abbotsham Hybrid Major	Abbotsham Major
Ada Hybrid Minimus	Ada Minimus
Annie's Fancy Hybrid Minor	Annie's Fancy Minor
Audrey Hybrid Minimus	Audrey Minimus
Badby Hybrid Minor	Badby Minor
Benets over S2 Little Hybrid Minor	Benets over S2 Minor
Benets over S5 Little Hybrid Minor	Benets over S5 Minor
Black Pudding Hybrid Minimus	Black Pudding Minimus
Blanchworth Hybrid Doubles	Blanchworth Doubles
Bovey Tracey Hybrid Major	Bovey Tracey Major
Briswich Hybrid Major	Briswich Major
Cambridge over Cambridge Differential Little Hybrid Minor	Cambridge over Cambridge Differential Minor
Cambridge over S2 Little Hybrid Minor	Cambridge over S2 Minor
Cambridge over S6 Little Hybrid Minor	Cambridge over S6 Minor
Cambridge under Benets Little Hybrid Minor	Cambridge under Benets Minor
Cambridge under Cambridge Little Hybrid Minor	Cambridge under Cambridge Minor
Cambridge under Carlisle Little Hybrid Minor	Cambridge under Carlisle Minor
Cambridge under Dover Little Hybrid Minor	Cambridge under Dover Minor
Cambridge under London Little Hybrid Minor	Cambridge under London Minor
Carlisle over D1 Little Hybrid Minor	Carlisle over D1 Minor
Carlisle over D2 Little Hybrid Minor	Carlisle over D2 Minor
Carlisle over Mendip Differential Little Hybrid Minor	Carlisle over Mendip Differential Minor
Carlisle over S1 Little Hybrid Minor	Carlisle over S1 Minor
Carlisle over S2 Little Hybrid Minor	Carlisle over S2 Minor
Carlisle over S5 Little Hybrid Minor	Carlisle over S5 Minor
Carlisle over S6 Differential Little Hybrid Minor	Carlisle over S6 Differential Minor
Carlisle over Sedlescombe Little Hybrid Minor	Carlisle over Sedlescombe Minor
Chudleigh Knighton Hybrid Major	Chudleigh Knighton Major
Cold Higham Hybrid Minor	Cold Higham Minor
Cransley Hybrid Minor	Cransley Minor
Crick Hybrid Major	Crick Major
D1 under George Orwell Little Hybrid Minor	D1 under George Orwell Minor
Deene Hybrid Minor	Deene Minor
Dover over D2 Differential Little Hybrid Minor	Dover over D2 Differential Minor
Eddone Hybrid Minor	Eddone Minor
Elsie Mary Hybrid Minimus	Elsie Mary Minimus
Empingham Hybrid Minor	Empingham Minor
Ethel Hybrid Minimus	Ethel Minimus
F1 Hybrid Minor	F1 Minor
Flat Rock Hybrid Minimus	Flat Rock Minimus
George Orwell over Cambridge Little Hybrid Minor	George Orwell over Cambridge Minor
Gertrude Hybrid Minimus	Gertrude Minimus
Glaston Hybrid Minor	Glaston Minor
Great Casterton Hybrid Minor	Great Casterton Minor
Helmdon Hybrid Minor	Helmdon Minor
Heywood Hybrid Major	Heywood Major

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King's Cliffe Hybrid Minor	King's Cliffe Minor
Lincoln College Hybrid Minor	Lincoln College Minor
London Link Differential Little Hybrid Sixteen	London Link Differential Sixteen
London over S1 Differential Little Hybrid Minor	London over S1 Differential Minor
London over S5 Little Hybrid Minor	London over S5 Minor
Lyddington Hybrid Minor	Lyddington Minor
Ma Hybrid Minimus	Ma Minimus
Mears Ashby Hybrid Minor	Mears Ashby Minor
Mendip under Benets Little Hybrid Minor	Mendip under Benets Minor
Mendip under Carlisle Little Hybrid Minor	Mendip under Carlisle Minor
Nat Wilhie Hybrid Doubles	Nat Wilhie Doubles
Nick Nack Differential Little Hybrid Royal	Nick Nack Differential Royal
Northamptonshire Hybrid Minor	Northamptonshire Minor
Potterspury Hybrid Minor	Potterspury Minor
Red Square Hybrid Doubles	Red Square Doubles
Richard III Hybrid Doubles	Richard III Doubles
Roade Hybrid Minor	Roade Minor
Rumble Differential Little Hybrid Maximus	Rumble Differential Maximus
S1 under Benets Little Hybrid Minor	S1 under Benets Minor
S1 under Carlisle Little Hybrid Minor	S1 under Carlisle Minor
S1 under Chieveley Little Hybrid Minor	S1 under Chieveley Minor
S1 under George Orwell Little Hybrid Minor	S1 under George Orwell Minor
S1 under London Little Hybrid Minor	S1 under London Minor
S1 under Stotfold Little Hybrid Minor	S1 under Stotfold Minor
S2 under Stotfold Little Hybrid Minor	S2 under Stotfold Minor
S6 under Benets Little Hybrid Minor	S6 under Benets Minor
Seavington St Mary Hybrid Minor	Seavington St Mary Minor
Seconds Out Differential Little Hybrid Maximus	Seconds Out Differential Maximus
Sedlescombe under Cambridge Little Hybrid Minor	Sedlescombe under Cambridge Minor
St Cyr Hybrid Doubles	St Cyr Doubles
St David's Guild Annual Outing Hybrid Minor	St David's Guild Annual Outing Minor
St Hilda's College Hybrid Minor	St Hilda's College Minor
St Hugh's College Hybrid Minor	St Hugh's College Minor
Stinchcombe Hybrid Doubles	Stinchcombe Doubles
Stotfold over Cambridge Little Hybrid Minor	Stotfold over Cambridge Minor
Stotfold over S1 Little Hybrid Minor	Stotfold over S1 Minor
Stotfold over S2 Little Hybrid Minor	Stotfold over S2 Minor
Stotfold over S5 Little Hybrid Minor	Stotfold over S5 Minor
Stotfold over S6 Little Hybrid Minor	Stotfold over S6 Minor
Sulgrave Hybrid Minor	Sulgrave Minor
Syon Gipsy Hybrid Royal	Syon Gipsy Royal
Tetley's Smoothflow Differential Hybrid Minor	Tetley's Smoothflow Differential Minor
To The Devil Hybrid Minor	To The Devil Minor
Top Little Hybrid Maximus	Top Maximus
Twywell Hybrid Minor	Twywell Minor
U-Dub Hybrid Doubles	U-Dub Doubles
Wadenhoe Hybrid Minor	Wadenhoe Minor
Wadham College Hybrid Minor	Wadham College Minor
Warkton Hybrid Minor	Warkton Minor
Wee Willie Winkie Hybrid Maximus	Wee Willie Winkie Maximus
Welford Hybrid Major	Welford Major
Whilton Hybrid Major	Whilton Major
Wicken Hybrid Major	Wicken Major
Wollaston Hybrid Minor	Wollaston Minor
Worthington Creamflow Differential Hybrid Minor	Worthington Creamflow Differential Minor

d1) Remove Differential, Little and Hybrid from short course Hybrid methods

Method Title	Amended Title
Charm Differential Little Hybrid Maximus	Charm Maximus
Down Differential Little Hybrid Maximus	Down Maximus
Meson Differential Little Hybrid Maximus	Meson Maximus
Seven Stars Differential Little Hybrid Major	Seven Stars Major
Sixblock Differential Little Hybrid Maximus	Sixblock Maximus

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Slynx Differential Little Hybrid Maximus	Slynx Maximus
[P] Toad Differential Little Hybrid Major	Toad Major
Up Differential Little Hybrid Maximus	Up Maximus

d2) Remove Differential from other short course Hunters

Method Title	Amended Title
Adelie Penguin Differential Surprise Royal	Adelie Penguin Surprise Royal
[P] Alpha Differential Bob Caters	Alpha Bob Caters
Andover Differential Bob Doubles	Andover Bob Doubles
Avington Differential Place Doubles	Avington Place Doubles
[P] Bailey Differential Little Place Triples	Bailey Little Place Triples
[P] Baldrick Differential Little Bob Caters	Baldrick Little Bob Caters
Baldrick Differential Little Bob Cinqes	Baldrick Little Bob Cinqes
[P] Baldrick Differential Little Bob Doubles	Baldrick Little Bob Doubles
Baldrick Differential Little Bob Triples	Baldrick Little Bob Triples
Balmoral Castle Differential Surprise Minor	Balmoral Castle Surprise Minor
Basingstoke Differential Bob Doubles	Basingstoke Bob Doubles
Beenham Differential Bob Doubles	Beenham Bob Doubles
Belinda Differential Alliance Royal	Belinda Alliance Royal
Bentworth Differential Bob Doubles	Bentworth Bob Doubles
Blackadder Differential Alliance Triples	Blackadder Alliance Triples
Bob Palin Differential Little Bob Triples	Bob Palin Little Bob Triples
[P] Bristol12 Differential Little Surprise Sixteen	Bristol12 Little Surprise Sixteen
[P] Bristol14 Differential Little Surprise Sixteen	Bristol14 Little Surprise Sixteen
Burford Differential Little Bob Royal	Burford Little Bob Royal
Caithness Differential Place Doubles	Caithness Place Doubles
Candover Differential Place Doubles	Candover Place Doubles
Carthage Differential Surprise Royal	Carthage Surprise Royal
Chain-link Differential Alliance Maximus	Chain-link Alliance Maximus
Circle Master Differential Surprise Royal	Circle Master Surprise Royal
Clifford's Tower Differential Surprise Royal	Clifford's Tower Surprise Royal
Collingbourne Ducis Differential Place Doubles	Collingbourne Ducis Place Doubles
Collingbourne Kingston Differential Bob Doubles	Collingbourne Kingston Bob Doubles
Crayford Differential Little Bob Royal	Crayford Little Bob Royal
Crayford Differential Little Bob Sixteen	Crayford Little Bob Sixteen
Croagh Patrick Differential Surprise Minor	Croagh Patrick Surprise Minor
Crosby Differential Place Doubles	Crosby Place Doubles
[P] Cundell's Differential Bob Triples	Cundell's Bob Triples
Darling Differential Little Bob Triples	Darling Little Bob Triples
Double Aster Differential Place Doubles	Double Aster Place Doubles
Double Canterbury Pleasure Differential Place Doubles	Double Canterbury Pleasure Place Doubles
Double College Differential Bob Triples	Double College Bob Triples
Double Differential Bob Doubles	Double Bob Doubles
Double Meriden Differential Place Doubles	Double Meriden Place Doubles
Double Stedman Differential Bob Doubles	Double Stedman Bob Doubles
Dr No Differential Surprise Royal	Dr No Surprise Royal
England Differential Bob Doubles	England Bob Doubles
Europa Differential Little Treble Place Sixteen	Europa Little Treble Place Sixteen
[P] Fastnet Differential Bob Triples	Fastnet Bob Triples
Fellowship of the Ring Differential Alliance Triples	Fellowship of the Ring Alliance Triples
Finnan Differential Treble Bob Minor	Finnan Treble Bob Minor
Forton Differential Place Doubles	Forton Place Doubles
[P] Fulham Reverse Differential Bob Triples	Fulham Reverse Bob Triples
Garry Differential Treble Bob Minor	Garry Treble Bob Minor
Glasgow Differential Little Surprise Sixteen	Glasgow Little Surprise Sixteen
Hafnium Differential Delight Minor	Hafnium Delight Minor
Harris Differential Treble Bob Minor	Harris Treble Bob Minor
[P] Hebrides Differential Little Place Triples	Hebrides Little Place Triples
Herriard Differential Place Doubles	Herriard Place Doubles
Horsetail Delight Differential Bob Doubles	Horsetail Delight Bob Doubles
Huntly Castle Differential Surprise Minor	Huntly Castle Surprise Minor
Lampton Differential Place Doubles	Lampton Place Doubles
Leda Differential Little Alliance Sixteen	Leda Little Alliance Sixteen

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Loch Gorm Differential Surprise Minor	Loch Gorm Surprise Minor
Loch Lomond Differential Surprise Minor	Loch Lomond Surprise Minor
London Differential Little Surprise Major	London Little Surprise Major
Lundy Differential Surprise Royal	Lundy Surprise Royal
[P] Malin Differential Little Place Triples	Malin Little Place Triples
Mandarin Differential Little Alliance Maximus	Mandarin Little Alliance Maximus
Marlborough Differential Bob Doubles	Marlborough Bob Doubles
Middlesex Differential Little Bob Triples	Middlesex Little Bob Triples
Midgham Differential Bob Doubles	Midgham Bob Doubles
Newbury Differential Bob Doubles	Newbury Bob Doubles
Old Alresford Differential Place Doubles	Old Alresford Place Doubles
Osterley Differential Bob Doubles	Osterley Bob Doubles
Oxfordshire Differential Bob Doubles	Oxfordshire Bob Doubles
Partial Differential Surprise Royal	Partial Surprise Royal
[P] Plymouth Differential Bob Triples	Plymouth Bob Triples
Rainhill Differential Bob Minor	Rainhill Bob Minor
Reading Differential Bob Doubles	Reading Bob Doubles
[P] Reading Differential Bob Triples	Reading Bob Triples
RedBlock Differential Little Bob Maximus	RedBlock Little Bob Maximus
Return of the King Differential Little Bob Triples	Return of the King Little Bob Triples
Sgurr Differential Surprise Royal	Sgurr Surprise Royal
Shaw Differential Bob Doubles	Shaw Bob Doubles
Single College Differential Bob Triples	Single College Bob Triples
Single Fulham Differential Bob Triples	Single Fulham Bob Triples
[P] Single Surrey Differential Bob Triples	Single Surrey Bob Triples
Sole Differential Bob Triples	Sole Bob Triples
Space Oddity Differential Little Hybrid Maximus	Space Oddity Little Alliance Maximus
Speen Differential Bob Doubles	Speen Bob Doubles
St Dunstan's Differential Bob Triples	St Dunstan's Bob Triples
St Wulstan Differential Bob Doubles	St Wulstan Bob Doubles
Temple Meads Differential Surprise Royal	Temple Meads Surprise Royal
Tenpo Differential Little Surprise Maximus	Tenpo Little Surprise Maximus
Tiebout's Mental Block Differential Little Hybrid Cinqes	Tiebout's Mental Block Little Alliance Cinqes
Two Towers Differential Bob Triples	Two Towers Bob Triples
[P] Upton by Birkenhead Differential Treble Place Doubles	Upton by Birkenhead Treble Place Doubles
Wales Differential Bob Doubles	Wales Bob Doubles
Wallingford Differential Place Doubles	Wallingford Place Doubles
Winchester Differential Bob Doubles	Winchester Bob Doubles
Wokingham Differential Bob Doubles	Wokingham Bob Doubles

d3) Remove Differential from short course non Hunters

Method Title	Amended Title
Ayston Differential Minimus	Ayston Minimus
Boatman's Differential Minimus	Boatman's Minimus
[P] Bottom Differential Maximus	Bottom Maximus
Cambridge under Stotfold Differential Minor	Cambridge under Stotfold Minor
Cross Differential Major	Cross Major
Cross Differential Minimus	Cross Minimus
D2 under Carlisle Differential Minor	D2 under Carlisle Minor
Egloskerry Differential Minimus	Egloskerry Minimus
Ganymede Differential Maximus	Ganymede Maximus
George Orwell over D2 Differential Minor	George Orwell over D2 Minor
Llanarthne Differential Minimus	Llanarthne Minimus
Lyndon Differential Minimus	Lyndon Minimus
Mendip under Dover Differential Minor	Mendip under Dover Minor
Mr Wood's Double Differential Minimus	Mr Wood's Double Minimus
New Boatman's Differential Minimus	New Boatman's Minimus
[P] Pentagon Bridge Differential Royal	Pentagon Bridge Royal
Poppadom Differential Royal	Poppadom Royal
Probative Differential Minor	Probative Minor
Reverse Tinwell Differential Minimus	Reverse Tinwell Minimus
Ridlington Differential Minimus	Ridlington Minimus

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S2 under Cambridge Differential Minor	S2 under Cambridge Minor
S5 under Cambridge Differential Minor	S5 under Cambridge Minor
S5 under Chieveley Differential Minor	S5 under Chieveley Minor
Sedlescombe under Chieveley Differential Minor	Sedlescombe under Chieveley Minor
St Alphege Differential Minimus	St Alphege Minimus
Strange Differential Maximus	Strange Maximus
Ten Rides Differential Minimus	Ten Rides Minimus
Tentative Differential Minor	Tentative Minor
Tinwell Differential Minimus	Tinwell Minimus
[P] Winkie Banana Differential Royal	Winkie Banana Royal

e) Reclassify methods with hunt bell symmetry about a row rather than a change as Alliance

Method Title	Amended Title
Cherington Hybrid Minimus	Cherington Alliance Minimus
Churn Valley Little Hybrid Minimus	Churn Valley Little Alliance Minimus
Clearwell Hybrid Minimus	Clearwell Alliance Minimus
Coln Valley Little Hybrid Minimus	Coln Valley Little Alliance Minimus
Custard Hybrid Minimus	Custard Alliance Minimus
Daglingworth Hybrid Minimus	Daglingworth Alliance Minimus
Elmstone Hardwicke Hybrid Minimus	Elmstone Hardwicke Alliance Minimus
Ermin Little Hybrid Minimus	Ermin Little Alliance Minimus
Evil Hybrid Minor	Evil Alliance Minor
Fosse Little Hybrid Minimus	Fosse Little Alliance Minimus
Good Hybrid Minor	Good Alliance Minor
Lathors Cure Hybrid Minimus	Lathors Cure Alliance Minimus
London over S2 Differential Little Hybrid Minor	London over S2 Differential Little Alliance Minor
London over S6 Differential Little Hybrid Minor	London over S6 Differential Little Alliance Minor
Parsley Hybrid Minimus	Parsley Alliance Minimus
Rhubarb Hybrid Minimus	Rhubarb Alliance Minimus
Rosemary Hybrid Minimus	Rosemary Alliance Minimus
Sage Hybrid Minimus	Sage Alliance Minimus
Smod Hole Inn Hybrid Minimus	Smod Hole Inn Alliance Minimus
Stanway Hybrid Minimus	Stanway Alliance Minimus
Thyme Hybrid Minimus	Thyme Alliance Minimus
Wader Wodon Hybrid Minimus	Wader Wodon Alliance Minimus
Walmer Little Hybrid Major	Walmer Little Alliance Major
Woolly Jumper Hybrid Major	Woolly Jumper Alliance Major
Wyck Rissington Hybrid Minimus	Wyck Rissington Alliance Minimus
Ypsen Harpen Hybrid Minimus	Ypsen Harpen Alliance Minimus

Summary of Changes

Methods affected

309

29

6

101

8

96

30

26

109

437

30

52

576

21

19

Reason

a) Remove Slow Course class

methods included above where 'Slow' has been added to the name for uniqueness

b) Non-method blocks become methods (moving 'Block' into the name where appropriate)

c) Remove Hybrid and Little Hybrid from method titles (class unchanged)

d1) Remove Differential, Little and Hybrid from short course Hybrid methods

d2) Remove Differential from other short course Hunters

d3) Remove Differential from short course non Hunters

e) Reclassify methods with hunt bell symmetry about a row rather than a change as Alliance

Total methods to be retitled while retaining their classification

Total methods to be reclassified

Total methods to be unclassified

Total methods with Little removed

Methods retitled (2.7% of 21315)

Methods potentially needing renaming due to conflicts

[P] Methods that are currently provisional that will be added under transitional arrangements

2. Retroactive recognition of Peals

Any Peals as defined under the framework that were previously rung but which were not recognised as such under the Decisions in place at the time may be submitted to the History & Archive Workgroup for retroactive recognition. The submission to the History & Archive Workgroup should note whether or not the Peal has been published in The Ringing World. The Central Council will retroactively include these Peals in its analyses and records if it determines, based on good faith assessments of the available information about these Peals, that the requirements for a Peal under the framework were met.

If such retroactively recognised Peals were not previously published as Peals by The Ringing World, the History & Archive Workgroup will forward the details of these Peals to The Ringing World for publication, with the publication noting their retroactive recognition status.

If such retroactively recognised Peals were previously published as Peals by The Ringing World, the History & Archive Workgroup will ask The Ringing World to publish a notice stating that these Peals have now been included in the Central Council's analyses and records, and providing the references to the original publications by The Ringing World.

If a Peal was previously published by The Ringing World in an altered manner that enabled it to be recognised as a Peal under the Decisions in place at the time, and the framework now enables the Peal to be recognised in the manner originally intended by the band, then the band may resubmit the Peal to the History & Archive Workgroup. The History & Archive Workgroup will ask The Ringing World to republish the Peal in the form originally intended, including a cross-reference to the original publication.

In all cases above, requests should be emailed to records@cccbr.org.uk.

3. Retroactive recognition of Methods

The Technical & Taxonomy Workgroup will, on request, add any new Methods that were rung in retroactively recognised Peals to the Methods Library if these Methods have not already been added as a result of subsequent Performances.

If a Method was added to the Methods Library as the result of a subsequent Performance and the original Performance of the Method has now been retroactively recognised, the reference in the Methods Library to the first Performance of the Method will, on request, be updated accordingly.

Any Method that is currently recorded in the provisional library will be added to the Methods Library if the Performance in which it was rung would have qualified it to be added to the Methods Library under the framework.

If, prior to the adoption of the framework, a band rang a new Method in a Performance that would qualify the Method to be named under the framework, but the Method has not been added to the Methods Library or the provisional library, then the band may submit the Performance and new Method details to the Central Council for inclusion in the Methods Library.

If a Method was previously added to the Methods Library in an altered manner to enable it to comply with Decisions in place at the time, the band may request for the Method to be updated in the Methods Library to the form originally intended.

In all cases above, requests should be emailed to methods@cccbr.org.uk.

4. Variations and Calls Libraries

Sections 3.F and 5.D refer to the Central Council's Calls Library and Variations Library respectively. These do not yet exist, but will be developed to provide central libraries for what today are collections maintained by individuals.

5. Software updates

On adoption of the framework, various changes will be required to the Methods Library software, and also to other related ringing software and documentation. This may take some time.

6. Analysis of Quarter Peals

The framework calls for an analysis of Quarter Peals, which isn't performed today by the Central Council (see Section 9.E). This may take some time to implement.

7. Historic Method Names

The framework calls for the Methods Library to record different Names and/or Titles by which existing Methods may have been known in the past, where details are available (see Section 5.A.6). This may take some time to implement.

Appendix G. Related Material

1. Articles by John Harrison

<https://cccbr.github.io/images/relatedmaterial/jah-decisions-rw.pdf>

A series of articles by John Harrison that provide an overview of the purpose and function of the Central Council Decisions, which the framework is intended to update.

2. First Workgroup RW article

<https://cccbr.github.io/images/relatedmaterial/first-rw-article.pdf>

The first RW article by the framework group, written by John Harrison.

3. Second Workgroup RW article

<https://cccbr.github.io/images/relatedmaterial/second-rw-article.pdf>

The second RW article by the framework group, written by Tim Barnes.

4. Third Workgroup RW article

<https://cccbr.github.io/images/relatedmaterial/third-rw-article.pdf>

The third RW article by the framework group, written by Tim Barnes, which covers the launch of the first ringing-community-wide consultation.

5. Framework presentation to the 2018 Central Council meeting

<https://cccbr.github.io/images/relatedmaterial/cc-slides.pdf>

<https://cccbr.github.io/images/relatedmaterial/cc-remarks.pdf>

The slides and remarks that were presented to the Central Council on May 28th 2018 by Tim Barnes.

6. Articles by Peter Scott

<https://cccbr.github.io/images/relatedmaterial/peter-scott-articles.pdf>

A series of articles by Peter Scott that give his views on various aspects of the framework.

7. Fourth Workgroup RW article

<https://cccbr.github.io/images/relatedmaterial/fourth-rw-article.pdf>

The fourth RW article by the framework group, written by Tim Barnes, which covers the launch of the second ringing-community-wide consultation.

Appendix H. Consultation

1. The first ringing-community-wide consultation on the framework started on Fri May 18th 2018 and ended on Fri Sep 21st 2018. A Ringing World article published on May 18th 2018 explained the first consultation process. This article is available as item 4 in Appendix G of this website (Related Material).

35 submissions were received in the first consultation. The points raised, and the framework team's responses to them, are documented in the FAQs in Appendix I, Sections A to L. Over 70 points were raised, and these led to over 30 changes to the framework.

2. The second ringing-community-wide consultation on the framework started on Fri Oct 26th 2018 and ended on Fri Nov 30th 2018. A Ringing World article published on Oct 26th 2018 explained the second consultation process. This article is available as item 7 in Appendix G of this website (Related Material).

9 submissions were received in the second consultation. The points raised, and the framework team's responses to them, are documented in the FAQs in Appendix I, Section M. Over 60 points were raised, and these led to around 25 changes to the framework.

3. In total, over 40 ringers contributed to either or both of the consultations. Thanks to everyone who provided feedback -- this resulted in many improvements to the framework.

Appendix I. FAQs

This page provides responses to questions and points that were raised via the consultation on the new framework. The submissions below have been edited for brevity and clarity in a standalone format.

A. Method Classification

Q1. *In classification alternative B, does there need to be something about more than one hunt bell, as there is in alternative A?*

A. Handling of additional hunt bells isn't needed in Alternative B because this alternative always classifies a hunter based on the path of the treble bell, regardless of how many hunt bells there are. This is viewed as aligning more closely with the historic terms used -- e.g. treble bob, treble dodging and treble place. However this is now a moot point as the classification system we've moved to (which can be viewed as somewhere between Alternatives A and B) applies the hierarchical approach to hunt paths that is used in Alternative A.

Q2. *It was hard to compare classification alternatives A and B. Could they be presented side by side, or the differences described point by point?*

A. Agree they weren't easy to compare as presented -- apologies for that. As noted in our Oct 26th 2018 RW article (see Appendix G.7), we've now settled on a classification system that can be viewed as falling somewhere between Alt A and Alt B, and is the single classification section now included in this website.

However, we do plan to put together a table that compares the classifications used in the Decisions, Alt A, Alt B, and the final classification system used in the framework. We'll update this FAQ with a link to the classification comparison table when ready.

Q3. *I couldn't locate the list of methods whose titles would change under classification Alt B.*

A. Yes, apologies that this wasn't as easily located as it could have been. It's part of the Transitional Arrangements page -- see Appendix F.1. We've now also included a reference to this list in the further explanation of Section 4.A.1. Note that this list now shows the changes under the updated classification system included in this website, rather than the previous Alt B.

B. Clarity

Q1. *Somehow the term 'hunter' feels wrong, and if it is already in use I've not heard it before. If it is not in use then what is wrong with simply Hunt, or Hunt Method, which would then be consistent with Jump Method? (I presume you considered Jumper.)*

A. The term 'hunter' is fairly recent - it was introduced in 2002 as part of the update to the Decisions that introduced differential hunters. We debated whether to use 'hunt method' instead of 'hunter', and possibly also 'differential method' instead of 'differential'. But the one-word versions are useful (e.g. when wanting conciseness on a web page) so the consensus was to keep 'hunter' and 'differential'. But we drew the line at 'jumper', given its other meanings.

Q2. *Is the definition of Hunting correct (see Section 4.A.7)? Wouldn't this result in a point at the extremities of the rows, rather than a place?*

A. We intend Hunting, as a standalone term, to mean hunting in a single direction (i.e. either hunting up or hunting down). The main use of hunting is in the definition of a Place method, in which the paths of all the bells consist only of Hunting and Making Places.

This is distinct from a Plain Hunt Path (or Plain Hunting Path), which consists of hunting up, making a place, hunting down and making another place. While Plain Hunt Path isn't a term we needed to define for use elsewhere, we've now included this term in the further explanation of the Plain Method class definition (see Section 4.D.1).

Q3. *How about a picture of a lead of a method with Leadend, Leadhead, Halflead, etc highlighted? Same with dodging places.*

A. Good suggestions -- a diagram showing the Leadend, Leadhead, Halflead Change and Leadend Change has now been added (see Section 4.A.12). A diagram showing dodging places has also been added (see Section 4.A.15).

Q4. *There seems to be a tendency in ringing and in business to introduce a new vocabulary which the older practitioners find difficult to understand, so perhaps a glossary of terms might be given somewhere. Reports of peals in the RW now refer to cyclical and particles and it would be helpful to the rank and file ringers if these terms could be explained.*

A. The framework does define the ringing terms it uses as they are introduced. However, we've only defined the terms that are needed across the framework. We don't view the framework as the right place to house an extensive glossary of ringing terms -- this would turn an already-complex document into an even more complex one. However an extensive glossary of ringing terms already exists at <http://jaharrison.me.uk/Ringing/Glossary>.

Q5. *There appears to be a pretty much random use of capital letters inconsistent with the conventional use of English.*

A. Words have been capitalised in the framework where they are specialist ringing terms that are defined elsewhere in the framework. This was previously noted in Section 2, which has become Appendix E, so we've now added this note to Section 1 to make it more prominent. A better approach might be to italicise the words rather than capitalise them, and make them hyperlinks to the definitions in question (which also gives the option of presenting them underlined or in a different color). There is various scope overall for improving the appearance of the framework website -- this is on the list of items to consider for a subsequent version of the framework, including how best to highlight defined terms.

Q6. *I note the term Identity change -- why not use Identical?*

A. Identity was chosen because it's used in mathematics to denote an operation that, when applied to an input, produces an output that is the same as the input. E.g. the identity for addition is zero, because $n + 0 = n$. In change ringing, we apply a change to a row in order to produce a new row, so it's consistent to call the change that results in a new row that's the

same as the previous row the identity change. 'Null change' has also been used in the past for the identity change. A discussion about this in the ringing-theory email group indicated a preference for identity over null.

Q7. *In section 2C you use 'Length' & 'Stage' as defined terms but they have not yet been defined above. I understand them but the majority of my local band wouldn't.*

A. Agreed. To give a better structure to the framework, we've now moved the former Section 2 to Appendix E (Framework Development). This also solves the ordering issue that you raise.

Q8. *I'm not sure the layman would understand the difference in the definitions of Block & Method. The further explanation helps but the actual definition is almost identical.*

A. There are various terms in method ringing that have similar meanings (e.g. touch and composition), as well as terms that have more than one meaning (e.g. lead can refer to ringing in 1st's place or a lead of a method). We've tried to distinguish similar terms as best we can: We view a method as just the sequence of changes, without considering the rows that the method can be used to generate.
A block, on the other hand, results from applying a sequence of changes (i.e. a method or a composition) to a starting row (normally rounds). A block therefore comprises a set of rows and the changes used to generate them.
A method can be viewed as the process, and a block as the result of the process.
Related to these terms, a touch is a block generated by a composition, and a plain lead and a plain course are blocks generated by a single method without any calls.

Q9. *Pictures would help the understanding of the symmetry definitions (section 4.B).*

A. Good suggestion. These have now been added. See Section 4.B.3.

Q10. *Have a much simpler section which explains standard method ringing so that ordinary ringers can see how to talk and write about what they do. Then put all the strange exotic stuff at the back. This document is too long and complex for any ordinary ringer to read, and not sufficiently precise, nor using the right mathematical terms, to be usefully referenced from a mathematical paper.*

A. We considered this, but the difficulty is that there will be lots of different views on where to draw the line between vanilla and exotic. This approach could also make it harder for readers to find the information they're looking for.

Also, the framework exists to be able to describe all method ringing and is not intended as an introductory primer to method ringing -- there are other publications that provide this.

The framework is also intentionally not a mathematical paper. Although not an introductory primer, it should be accessible to as many ringers as possible. However, we are considering adding a new section to a subsequent version of the framework that describes method ringing in mathematical terms (with development of this led by a ringing mathematician). This could then be used by mathematicians -- e.g. to reference in an academic paper.

Q11. *I was unclear about the use of stage at various points in the framework. There seem to be requirements of various terms to be all 'of the same stage' which did not make sense to my mind as it precluded blocks/compositions of spliced triples and major (given the commonplace understanding of the term 'stage'). However, an explanation is found hidden away in explanatory notes for cover bells. I think that something should be done to enable a clearer understanding of this concept in the main text, especially as various sections of the explanatory notes relate; not everything is one place. (I also do not understand why Plain Bob Doubles/Plain Bob Minor rung side by side on 12 produces Maximus changes as there are 11 bells affected by the method – so surely this would be cinqués changes as per the example given elsewhere of Plain Bob Minor/Plain Bob Cinques rung side by side).*

A. A few people commented that the use of 'stage' in the framework wasn't clear, and/or that the information on 'stage' is too fragmented across the framework.

Because stage is a concept that applies to various other concepts (rows, changes, blocks, methods and compositions), organising the information can become circular (e.g. the definition of method involves stage, but defining stage without referring to a method can be too abstract). To address this, we've created a short document that covers all aspects of stage in one place. The framework now links to this document wherever stage is defined, i.e. in the definition of Row (3.B.1), Change (3.C.1), Block (3.D.1), Method (3.E.1), Composition (3.G.1) and Cover Bell (3.H.1), as well as in the initial definition of Stage itself (3.A.1).

On the question about Doubles / Minor rung side by side on 12 bells, this would indeed normally result in Cinques changes, which could then be rung (say) with the 12th as a cover bell. But in the example in the technical comment of 3.H.1, the Doubles is being rung on bells 1-5, and the Minor is being rung on bells 7-12, with 6th's place containing a cover bell. For practical purposes (e.g. when entering changes into a proving program), the changes would most likely be specified as Maximus changes, with a place notation of '6' included in every change. But the effective stage of the block produced by these changes would still be Cinques (assuming there are no other fixed places).

Q12. *3.J.4 states that the final row should be excluded in calculating truth in a round block. I wondered if it should be the 1st row as if you start a touch in rounds, the first change takes you to the first non-rounds touch of the composition; therefore is the initial row really part of the composition? There are probably good reasons, however, why this is not the case which I have not appreciated.*

A. We had quite a lengthy debate on this point when drafting the framework. The reality is that when determining the truth of a round block, you can exclude either the initial row or the final row (these two rows being the same). We felt that using either/or language throughout the framework would be a little cumbersome, so decided to standardise on including the initial row and excluding the final row. This approach often aligns with the symmetry of what is being rung, and also, in spliced compositions, the atw (all-the-work) property is determined based on a lead starting with the leadhead and finishing with the leadend, rather than one row later (this avoids possible missed rows due to calls). But in practice the other approach will also be useful. E.g. when judging a striking competition, if the rules call for not judging the opening and closing rounds, the judge probably won't know the touch has started until she hears a non-rounds row. So in this scenario, it would make sense to exclude the initial row and include the final row for

judging purposes.

Q13. *I felt that 3.K.3 was a little ambiguous in the term 'same set of Methods'. I assume this means a record lengths for spliced. I am unclear at what level the set of methods is defined, stage, or stage and method class.*

A. Yes, 'same set of methods' is referring to multi-method performances (which are often, but not always, spliced). A method is always defined at the level of its method title. For example, Cambridge Surprise Minor and Cambridge Surprise Major are not the same method -- they are two different methods that are related (via a method extension process). Similarly Yorkshire Surprise Major and Yorkshire Delight Major are also two different methods -- ones that happen to share the same method name. We've amended 9.B.1 to clarify the above, and have also added that variations can also be used to generate a unique set of methods / variations with which to ring a record length.

Q14. *I am not sure if I would have classified a 'Little Path' in 4.A.6. As far as I know it refers only to hunt bells, but that section read on its own would suggest 2nds Place Bell Bristol is a Little Path. I would probably have just used the wording or similar in the relevant sections about Little Methods.*

A. A good point, and one that generated some debate among the framework team. We ended up thinking that a little path doesn't need to be confined to hunt bells, though we agree that's the most common usage. We've now added a paragraph to the further explanation of 4.A.6 clarifying this.

Q15. *I note that nowhere is there a definition of 'Method Class' or 'Method Class Descriptor'. Sections 4 and 5 merely describe what they are. I wondered if these terms warranted an explanation somewhere.*

A. Method Class is in fact defined -- see 4.A.1. We didn't think that Method Class Descriptor needed a separate, formal definition because the dictionary definition of Descriptor applies. We therefore went straight to defining how Method Class Descriptors are formed (5.B.1). As a general rule for the framework, we haven't defined terms where the normal dictionary definition of the word suffices.

Q16. *I find it odd that 6.B.1(e) requires that the performance Report includes whether the performance was rung on towerbells or handbells. This fact is not included in the report and the explanatory notes suggest that this is indicated by the way in which items are submitted to Bellboard (other means of submitting performance reports are available). I know this is a linguistic point, but the report does not include this fact.*

A. We were thinking here of handbell performances where each ringer only rings one bell. While these are rung infrequently, we wanted the framework to be able to accurately describe them if they are rung. BellBoard today has one form for one-bell-per-ringer, and another form for two-bells-per-ringer. A one-bell-per-ringer handbell performance could therefore look like a tower bell performance, so 6.B.1 e) gives a requirement to footnote that such a performance was on handbells. We've now edited 6.B.1 to include this point. The same issue might apply to

a tower bell performance where each ringer rang two bells. But this would likely be posted on BellBoard with the name of each ringer entered twice against two bells, so the report would be clear as to what was rung.

Q17. *I was surprised that the definition of spliced was reserved to the performance section; surely a composition can be described as spliced as well as the performance. It seems to appear too late in the framework in my opinion.*

A. Yes we agree, and a good point. We've now defined spliced as part of 3.G (Compositions), and then stated that a performance title includes 'spliced' if the performance included ringing a spliced composition.

Q18. *I am not sure I agree with the reporting standards and the examples given. Most QPs of spliced/mixed include the number of methods in the report, thereby taking, in the new definition, the performance title and part of the performance detail. I further note in peal databases (e.g. peals.co.uk) they are listed e.g. Spliced S Major (14). Would it not be better to require the number of methods to be part of the performance title where more than one method is rung?*

A. Yes agreed -- multi-method performances posted on BellBoard often include the number of methods in the performance title. We've now updated 6.A to cover this, but made it optional as to where the number of methods is put, noting that The Ringing World still includes this in the performance detail.

Q19. *Section 9.2 refers to Variable Cover records; I can find no definition of what variable cover means in the framework, although references are made in various parts of the explanatory material, but do not use this term, apart from in the reporting examples.*

A. Agreed. We've now added a definition of variable cover as part of 3.H (Cover Bells). Like spliced, variable cover is an attribute of a composition, so we've also now stated that a performance title includes 'variable cover' if the performance included ringing a variable cover composition.

Q20. *Although the meaning is clear at all times in your text, I feel that there is a potential for misunderstanding in the use of the word 'extent'. It is commonly used to mean (eg on 5) 'all 120 possible changes rung consecutively'. Thus 'call two extents of Grandsire Doubles' would widely be interpreted to mean calling a 120 then another 120 immediately following, while a 240 that has each row once at hand and once at back would more often be called a 'double-extent'. But in your usage this 240 could be called 'two extents' as each change occurs twice, but the two extents are intertwined. You seem to anticipate this possible confusion by adding the clarifying remark 'The location of individual Rows within a Block of Rows does not have any bearing on truth.' Good - but I feel there is still a need to point out these two different possible interpretations of the word 'extent' - or maybe have two different words??? Not sure what the solution is.*

A. We agree ringing hasn't evolved clear terminology to differentiate between a round block comprising two extents (where the rows can appear in any order), and two individual extents rung consecutively. Where terminology like this hasn't evolved, it usually means that either the

distinction often isn't important, or the distinction can be made using ordinary dictionary words (such as 'two individual extents rung consecutively' as above.) We've now updated 3.J.1 to point out the possibly ambiguity, and noted that care should be taken with communication where this distinction is important.

Q21. *The blocks were introduced early, but the counting of rows / changes gets a bit confusing especially without round blocks.*

- A. Yes, blocks are introduced early (3.D) but this is deliberate. We tried many different ways of organising the information to minimise the number of forward references needed, and give the most intuitive groupings of terms, and we found that introducing blocks before methods, calls, compositions and cover bells gave the best results.

The count of changes is the same regardless of whether the block is round or not. But when determining truth (which is a function of rows), the final row of a non-round block is included in the test, whereas for a round block it's excluded.

Q22. *Truth also appears in 2.B.6 then with accepted truth. Truth to me really means no row repeated. Complete means every possible row at least once. We then later allow repeats to get touches longer than the extent, and adjust truth accordingly.*

- A. We're now reordered the framework so that the references to truth and accepted truth that were in 2.B.6 are now in Appendix E (Framework Development). This gives a better ordering of the information.

There can be many different ways to apply truth (e.g. in a 240 of Doubles, each row appearing once at handstroke and once at backstroke might be considered 'more true' than a 240 where each row simply appears twice). In the interests of simplicity, we felt it would be valuable to have a single definition of truth that applies to all stages and all lengths, hence the definition used in 3.J.4. While 'complete' is a reasonably-well-known term for describing a block that contains each possible row at least once, we found we didn't need 'complete' to define any other term or requirement in the framework, so in the interests of simplicity, we didn't include 'complete' as a defined term.

Q23. *3.D.1. 'Block: A sequence of Changes, all with the same Stage, and the Rows produced by applying these Changes, starting from an initial Row.' So it is both the changes and the rows?*

- A. Yes, both the changes and the rows. A block results from applying a given sequence of changes to an initial row. While in practice, most ringing uses rounds as the initial row, a different block could be obtained from the same sequence of changes by using a different initial row. The two blocks' changes would be the same, but their rows would be different.
-

Q24. *I do not understand the intention of 5.D.5.*

- A. 5.D.5 says 'Variations are incorporated into Compositions, including Spliced and Variable Cover Compositions, in the same way as Methods.'

3.G.1 defines composition in terms of method(s). To be fully precise, we ought to define composition in terms of both methods and variations. But because it would be cumbersome to

use 'methods / variations' or similar in multiple places in the framework, we just used 'methods', and 5.D.5 then serves to expand the other references to also include variations.

Note that a variation isn't a composition -- it's the use of a method with certain, defined call(s). You still need a composition to specify how to use this method and its defined call(s).

Q25. *2.C.2: What is length - is it changes or different rows? Currently changes as we start and end in rounds. But if rows - would ringing 5000 rows of major from pull-off and not finishing in rounds be a peal length? Probably not as defined as changes later.*

- A. (Note that the former section 2 has now been moved to become part of Appendix E.)
Yes, 5000 rows rung in total (from pull-off to stand) could only ever be a maximum of 4999 changes (and less if there are opening or closing rounds), so not a peal length. Length is always the number of changes, not the number of rows (see 3.I.2), and the number of changes is not affected by whether or not the rows are a round block.
-

Q26. *3.A.1. Mention exclude 'nonuples' even though it is in some dictionaries.*

- A. We retained Octuples (stage 17) primarily because a peal of Octuples has been rung (this is the highest odd-stage peal rung to date). We didn't think nonuples was in the ringers' lexicon to the extent its absence needed to be explained, especially since even stages switch to English numbering starting at stage 14.
-

Q27. *'3.B.1 A sequence of numbered bells in which no bell appears more than once.' I don't like that as it allows bells to be omitted. Something like this would be better: A sequence of numbered bells in which each bell appears exactly once.*

- A. The problem with the suggested definition is that 'each bell' is undefined. E.g. does it mean 'each bell in the tower' or even (to make a point) 'each bell in England'? The defining feature of a row is that no bell appears more than once, regardless of which bells do appear. When rows are combined into blocks, there is then an additional constraint that every row in the block comprises the same set of bells. This follows from the definition of change as a transposition. We've now added to the further explanations of 3.C.1 and 3.D.1 to clarify this point.
-

Q28. *3.C.1 I don't like Change for identity and jump changes - as that breaks the historic meaning, but using 'permutation' or 'generalised change' would make other definitions look messy. Need to make clear that change is the general transform, not the actual row to other row themselves. Perhaps needs an example:*

123456

214365

is the same as

346125

431652

- A. Agreed on looking messy. In practice, we don't expect identity and jump changes to be rung frequently, so in normal usage 'adjacent change' will be abbreviated to just 'change' and the meaning will be clear from the context.
-

On the second point, the explanation for 3.C.1 includes an example that shows that a change is a general transform that can be applied to any row.

Q29. *3.F.1 Can you have dynamic calls? E.g. is the call of 'rounds', a possibly jump change call, a dynamic call?*

- A. We haven't included dynamic calls as a separate type of call as their use seems unlikely. They could be added to a future version of the framework if compositions emerge that use them, and if having a central definition of dynamic calls is thought to aid ringers in communicating about method ringing.
-

Q30. *Is a call part of a method? E.g. ringing 14 instead of 12 in Cambridge surprise Major doesn't affect the number of changes of Cambridge. What about ringing 18 - is that one change of Primrose Surprise, or Original, or Bristol Surprise?*

- A. Calls are separate from methods, in the sense that a given call can be used with many different methods, and many different calls can be used with a single method. However, when reporting the number of changes rung of a given method in a performance, the count includes those changes that were modifications to the method's changes resulting from calls. The explanation for 3.F.1 provides more detail.

Ringling a 18 change as the leadend change in Cambridge S Major is an example of the well-known problem of overlap in describing method ringing. The same set of changes can be described in many different ways, and there's no satisfactory way of eliminating this overlap. Ringers therefore use their judgement in deciding which is the most appropriate way to describe a given set of changes. A 18 leadend change in Cambridge could be described as a composition of spliced Cambridge and Primrose, or the 18 change could be described as an additional call in a Cambridge composition.

Q31. *3.I.2 With whole pull Plain Bob Minor (identity change), do you count the identity changes?*

- A. An extent of Plain Bob Minor with each row rung at handstroke and backstroke before moving to the next row could be reported as 1440 Plain Bob Minor, thereby counting the identity changes. This would be a true performance. Alternatively, the performance could be reported as 720 Plain Bob Minor with a disclosure added, per 6.C.2 n), explaining the whole pull ringing. Either approach would be valid and it is left to ringers to use their best judgement in deciding how to report. Note that reporting 1440 changes would give a more expected alignment with the reported time of the performance. Also note that at higher stages, whole pull ringing would almost certainly be false, leading to a disclosure under 6.C.2 b).
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Q32. *"Technical comments: As discussed above under Compositions (Section 3.G), it is possible for a Composition to use two or more Methods side by side, or to use two or more Compositions side by side. As a further variation, a Composition might also result in an interior Cover Bell. For example, a Composition might be designed to be used with Maximus Rows, using a Doubles Method in Places 1 to 5 and a Minor Method in Places 7 to 12. 6th's Place does not have any Methods operating on it, and therefore 6th's Place contains a Cover Bell. In this case, the Composition would produce Maximus Changes (and therefore have a Stage of Maximus), and*

each of its Changes would include the place notation '6'." I read that as being an Effective Stage of Cinques. I guess with fixed bells in the middle you could use jump changes to swap bells from the front to the back.

- A. Yes to both. The effective stage is Cinques (even though the composition has a stage of Maximus), and jump changes could be used to jump between, say, 5th's place and 7th's place, thereby leaving 6th's place as an interior cover bell.

Q33. *I have never met any ringer who thought a change was anything other than an order of all the bells being rung. You do not need a name for the transition from one to another. I have never heard the term stage before, I assume this refers to doubles major etc., why not just write number of changing bells or NCB if that is too long. You do not define lead especially when it is used in reference to principles. To me principles do not have leads.*

- A. On your first point, 'row' and 'change' have indeed been used interchangeably over the years to refer to what the framework describes as a 'row'. In the earliest ringing publications the term 'change' was used to cover both the process of moving the bells and the resulting sequence. However, by the late 1800s, technical writers needed to split the process from the result, and these terms became 'row' and 'change'. E.g. from 'A Note on Grandsire Triples', W.H. Thompson, Macmillan and Bowes, 1886, page 7: 'Any one permutation of the 7 bells is called a 'row'. The Decisions have been making the distinction between a row and change since at least 1970.

As with many terms, this distinction has not been made consistently, either in common parlance or ringing literature. To address this, we've added the following to Section 3.B.1: 'Note that what is defined as a Row in this section is sometimes described as a Change in common ringing parlance, and this usage of Change will be found in some method ringing books and articles. The framework separately uses Change as the transition between two Rows (see Section 3.C) and this distinction between Row and Change is important in defining a number of other method ringing terms used in the framework. Row is the preferred term wherever possible.'

We do need a term for the transition between rows because these are the building blocks for methods and compositions. E.g. Plain Bob Minor comprises the changes x16x16x16x16x16x12 - here it's clear that changes are referring to transitions, and not to an order of bells. In a composition, a bob might replace a 12 change with a 14 change, and so on.

On your second point, stage does refer to Doubles, Major, etc. It's an established term -- e.g. used in the Decisions since at least 1970.

Finally, principles do have leads in the same way as any other method. We often don't think of them this way, probably because the most well-known principle (Stedman) lends itself to being thought of in sixes, where we don't even normally start and finish at a six-end. But the same lead structure is there (Stedman has 12 changes in a lead), and if you look at other principles (e.g. Double Éire Minor) the lead structure is more apparent.

Not considering principles to have leads is also partly historic. Principles used not to be considered methods, and were said to be made up of divisions rather than leads. But the Decisions have considered principles to be methods since at least 1970. Between 1970 and

1999 the Decisions referred to principles being made up of divisions or leads. In 1999, division was dropped. Consequently the framework drafting team have seen no reason to retain the term division when lead is sufficient, and using one term for all methods is simpler.

C. Permissiveness

Q1. *I would query whether it is necessary to restrict Doubles variations to those capable of producing a single extent round block (5.D.4). If methods false in the plain course are permitted, why can't a variation that cannot produce a true 120? Considering the rest of the framework, this seems somewhat prescriptive. There are Doubles variations that have been rung and named already for which a 120 is not possible, but a 240 can be rung (e.g. Heterodox Doubles: Plain Bob with a New Bob bob).*

A. Yes, good point -- we agree this goes against our descriptive / permissive mandate (it was copied over from the current Decisions with insufficient scrutiny). We have now removed this requirement.

Q2. *I think that it is slightly odd that jump changes are added, but are then also added to the list of items to be mentioned in performance reports as not conforming to the norms.*

A. In line with our descriptive / permissive mandate, we've included jump changes in the framework so that if they're rung, there is terminology to describe them. But since jump changes have not been the norm in method ringing, we want their use to be clear in performance reports. Since methods that include jump changes will have 'Jump' in their method titles, additional disclosure is therefore only needed when (a) jump calls are used with non-jump methods, and (b) variations with jump changes are used (variations don't use class descriptors in their titles). This is outlined in the further explanation of Section 6.C.2.

Q3. *I would urge the proponents of these changes to tread very carefully indeed. History shows that when traditional and ingrained systems are swept away, those who are not prepared to put up with it will break away from the existing structures and form their own traditional groups. Anglicanism is a good example where there are now thousands of traditionalists broken away from Lambeth throughout the world. An alternative Council of Traditional English Change Ringers would be a disaster for the art given the challenges to ringing posed by on-going collapse of the Church of England.*

A. The Decisions have been a source of controversy since the formation of the Council, and many believe the Decisions' approach of ruling out ringing that hasn't been done before has harmed the Council's reputation, especially among more advanced ringers. The motion to switch to a descriptive / permissive approach passed with a very clear majority at the Edinburgh CC meeting.

However we recognise that traditionalists won't like all the forms of method ringing that the framework describes. The framework uses a disclosure approach so that performances that differ from method ringing norms can be identified as such.

There is also, deliberately, nothing in the framework that prevents a group of traditionalist ringers from forming a society (which could become affiliated with the Central Council) that

implements additional restrictions on what it considers methods or peals. For example, this society might choose only to recognise peals of Triples and below that are rung in whole extents, and only that involve methods that are principles or are hunters with Plain Bob or Grandsire leadheads / leadends.

Ultimately ringers with a wide range of opinions have to find ways to coexist with one another, and we believe that a descriptive / permissive approach, paired with disclosure and the ability of like-minded ringers to group together to focus on the types of ringing they're interested in, is the most likely way to achieve this.

Q4. *I think that what we should strive to avoid is offending against first principles of change ringing that have been established for centuries. Thus I cannot support the introduction of jump changes and multiple covering bells in peals. The peal is a benchmark of achievement and there is no case for allowing people who can barely handle a bell in Rounds to follow another bell for three hours in the pretense that they are now a peal ringer. Extra covering bells have a place in Quarters to give rope-time to learners, but not in peal ringing. If this is permitted we will soon see a peal of Minimus rung on 12 with 8 covering bells which would bring our art into disrepute.*

It appears from what has been published that a recordable peal could now be rung on 1 and 2 bells. That is a nonsense. However what I do want to see, and have advocated for many years is the acceptance of Singles. I do not see a case for saying that a band who have worked away at a probably rough 3 for nearly three hours have not rung a Peal. Singles should be the basic minimum stage for change ringing.

I am much concerned that ringing is going to join the Gadarene rush to abolish all standards so as to be 'more inclusive'. The abolition of traditional standards is a disease. Ringing should work towards improving standards, not abolishing them to placate the PC brigade.

A. Much Central Council time was taken up debating whether 4-bell peals should be recognised. We could clearly spend more time debating whether 3-bell peals should be recognised, and then 2-bell peals. Similarly, we could spend much time in the future debating whether jump changes and multiple cover bells should be recognised. With the CRAG mandate, the Council has decided this is not a good approach. The mandate was very clear -- the aim of the framework is to be permissive and describe what ringers choose to ring, rather than specifying rules over what the Council will and will not recognise. This is a direct response by the Council to the recognition that the previous system hasn't worked well, has caused much controversy, and has harmed the Council's reputation, obscuring much of its other good work. It's now time to try something new -- namely to provide standard terminology for ringers to describe what they rang, and leave it to them to decide what they want to ring.

The aim of trying to use the framework to enforce ringing standards (i.e. quality) is also misguided in our view. Standards vary widely by band and location, and a one-size-fits-all central approach will inevitably result in the bar being set too high for some and too low for others. Encouraging improved ringing quality is better addressed at the local level, with the Central Council possibly providing guidance / tips, and/or promoting training events and similar.

Q5. *Method ringing should alter the order of the bells at every row.*

- A. This is the question of whether the identity change should be recognised. For example, an extent of Plain Bob Doubles can be turned into a true 240 by calling a single with place notation 12345 at two points 120 changes apart. This 240 has the nice feature of every row appearing once at handstroke and once at backstroke.

Since a 12345 change results in every bell staying in the same place from one row to the next, it is the identity change for Doubles. Given there are valid uses of identity changes, as shown in the example above, and that our mandate is to be permissive and descriptive, we believe identity changes should be covered in the framework. It is then up to individual ringers and bands to decide whether they want to make use of them.

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- Q6. *'Simple and permissive descriptive framework for ringing with only the minimal detail required to maintain the historical record.' I don't think this is achievable or particularly desirable goal as simplification and permissiveness actually leads to more complication explaining ordinary ringing.*

- A. This is the mandate we were given, which was decided by a very clear majority vote of the Central Council, and the framework team believes it was the right mandate. However, it's certainly correct that increasing permissiveness does also increase complexity, and there's a limit to how simple you can make a method ringing framework (we've interpreted the mandate as being to make the framework as simple as possible).

The framework aims to cover all types of method ringing so it isn't designed as a primer for new ringers, though we've tried to make it accessible to as many ringers as possible. Ringing authors might develop or update guides (e.g. for new / developing ringers) that just cover the parts of the framework that relate to what is more commonly rung.

-
- Q7. *3.H.1 Does this allow continuously leading bells? In major could you have a method with a fixed bell leading, but considered as part of the method?*

- A. Yes to both. The former is described in the further explanation of 3.H.1. The latter is an example of the well-known problem of overlap in describing method ringing. You could describe a continuously leading bell in 8-bell rows as a leading cover bell rung with a Triples method, or as a Major method with a stationary bell in 1st's place. A leading cover bell with a Triples method might be the simpler description of what was rung, but if there was also a stationary bell in, say, 5th's place, and both stationary bells were affected by calls, thereby changing the stationary bells, the changes might be better described as a composition of a Major method. Ringers therefore use their judgement to decide how best to describe a given set of changes.

-
- Q8. *Perhaps the online version of The Ringing World could change reports to match the reader's wishes. E.g. if you don't agree with jump changes, you could filter out any performances that used them.*

- A. The purpose of 6.C (performance norms) is to make ringers aware when performances include features that differ from common practice. It will, of course, be for The Ringing World to decide if and how to make use of this information, but it could indeed potentially be used to let

readers filter out certain types of performances that they're not interested in reading about.

Q9. *It's also a bit silly to ring partial extents of minor, doubles, etc even if you do want a funny number in the peal report. I wouldn't stop someone from doing it, but I don't want to see it reported as a peal, or on a peal board.*

A. The change to recognise partial extents was made in 2016, passing with a large Central Council majority, so this isn't something new in the framework. To not recognise partial extents goes against the permissive and descriptive elements of the framework mandate, which was also passed by a large Central Council majority.

Q10. *2.A.1 There is an assumption in this that all ringing can be defined in terms of methods and I believe this to be wrong. The term 'method' should have a very specific meaning and what should be described is change ringing which is the general term for what we do. Proposal H did not mention methods. Throughout the framework there is undue mention of methods where it should be change ringing. The definition of a method seems to be virtually identical to a block. The definitions used are not ones which would be understandable or recognisable to an ordinary ringer. There seems far too much emphasis on mathematical concepts rather than practical ringing. For instance 'the identity change' is not a change in the terminology of ringing it is simply a repeated row. I'm afraid this framework does not do what the Council asked for and needs a fundamental reevaluation; the present team and reviewers have too many people from a computing and mathematical background and seem out of touch with practical ringing in the wider world.*

A. Many ringers would agree with the idea that a method should have a more limited meaning than just any sequence of changes. The problem is that this falls into the category of "sounds good, doesn't work". In over 100 years of trying, the ringing community hasn't found a limited definition of 'method' that is widely agreed upon. Some of the harshest battles in 20th century ringing related to the definition of a method. E.g. see the book 'Forbidden Methods' by Karl Grave (2010, published by The Whiting Society of Ringers) where some methods were described as 'illegitimate' or even 'bastards'. And see <https://bb.ringingworld.co.uk/view.php?id=1100503> for a more recent dispute over the definition of a method.

Progress comes from learning from the past. Since there is no practicable way of limiting the definition of a method without also ruling out sensible cases, the only solution is to enable any sequence of changes to be named as a method. This is what the framework does, and it's also consistent with our permissive / descriptive mandate. We trust that ringers will be sensible in what they choose to name as methods. And if they're not sensible, Section 5.E.3 of the framework contains an anti-abuse provision.

On Method vs Block, we've now added additional explanation to 3.E.1 on the difference between these two terms. The distinction is key -- a method is the process (i.e. the changes) and a block is the result of applying the process (i.e. the changes plus the rows produced, given a specified starting row).

We recognise the problem of self-selection in a project like this. The sort of people who are interested in becoming politicians are often the last people you want running a country, and

the same may be true of people who volunteer to develop a method ringing framework. The only responses we can give are:

(1) We've been very conscious of the need to keep things as simple as possible. Many solutions that were more elegant or more purist were ruled out of the framework because we decided they were too complex to include.

(2) The framework isn't intended as a primer on method ringing for people new to the Exercise – there are other publications that capably meet that need. The intended audience for the framework starts at the level of ringers who are already familiar with the basics of method ringing.

(3) To be effective, the framework needs to be able to describe all reasonably foreseeable forms of method ringing, not just 'everyday' ringing. Otherwise it's not a framework -- it's a limited description of some common forms of method ringing. We don't believe that's what the Central Council intended. We don't dispute that covering all foreseeable forms of method ringing means there is some complexity to the framework. But we think we've simplified things about as much as is possible, and we deliberately included lots of examples, diagrams and explanations to try and make things as clear as possible.

At the same time, we're open to any suggestions on how the framework could be simplified. There will be subsequent versions of the framework, which will give the opportunity for new ideas to be considered.

Q11. *I'm not terribly knowledgeable technically, so I have just one comment. I understand that the proposed framework would permit jump changes. If that is so, then I disagree with it for two chief reasons. First, agree with it or not, one of the things that has always distinguished change ringing is its incrementalism. Change ringing patterns have been defined by very few rules, but one of them is that a bell can move only one place in the row. This means that change ringing is a restrictive musical form—but what of that? It simply means that we find enjoyment in working within a narrow musical field—one that shows that great changes can be accomplished incrementally, over time. An analogy in poetry would be to the sonnet. The sonnet is extremely well defined and has been that way for centuries. Why change it? Or at least, if you write a poem in a different structure, why not concede that the result may be a very good poem, but it is not a sonnet? And really, does that matter so much—unless perchance we are counting sonnets that we have recited? Second, I think that moving only one place in a row is a safety consideration. If you encourage methods that include jump changes, then there will be more stays lost, more limbs broken, and more embarrassing press coverage of ringers being lowered out of towers by stretcher, crane, or helicopter. The Church and its insurers will start asking questions. All this should be avoided. For these reasons I would respectfully suggest that if leading theoreticians want to ring jump changes, then those methods and compositions should simply be among the things that are deemed noncompliant. Nothing prevents people from trying to accomplish them, from celebrating those accomplishments, or from counting them as peals in their personal totals. But jump changes lack official CCCBR imprimatur and so the Exercise can say that they are not typical of what we do. Let's not break something, only then to find out the very good reasons why it has held its current form for centuries.*

- A. We agree that incrementalism and working within a restricted space is a key attraction of method ringing. The difficulty, and where your analogy breaks down, is that if someone writes a poem that is not a sonnet, it is still a poem. If we say jump changes are not method ringing, what are they? We don't have a term. And even if we invented a new term, many would object because they consider jump changes to be part of method ringing, and we would be trying to tell them otherwise.

That's why we introduced the term 'adjacent change' -- to provide a subset term (like sonnet) that enables ringers to describe a piece of ringing that only used traditional changes, should they wish to emphasise this.

We think your safety concerns on jump changes are a little overstated. If you ring at a 4-bell tower, you have to move your bell further for an adjacent change than you do for a 2-place jump when ringing on 10-bells. The risks of jump changes seem far lower than those involved when, say, teaching someone to ring, ringing bells down, or even walking down a narrow or steep tower spiral staircase.

Furthermore, ringing safety is better addressed at the local level -- a one-size-fits-all restriction at the Central Council level isn't appropriate. Some towers have experienced ringers who will have no difficulty executing jump changes. Other towers have beginners who will need close supervision even when ringing adjacent changes.

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- Q12. *On the subject of jump changes: The new framework has done an excellent job of allowing the flexibility for bands and composers to explore a multitude of constructs and so it would seem to me to be inconsistent for jump changes to be excluded simply because they have not been part of the traditional framework. I do agree that unfettered inclusion could lead to some bizarre results and so the challenge is to provide a little bit of structure and then see what happens. My proposal is to follow the principal that the primary objective is to allow people to describe accurately what they ring. To do this we should start by saying that changes are classified as jump-n. Normal methods are jump-1 (i.e. no bell changes more than one place) but obviously by extension we could define a jump-2 method and so on. It would also be helpful to define whether we have a jump method or are using jump calls. A standard method with jump bobs might be an interesting idea, not everyone's cup of tea but if it allowed better compositions in methods with a lot of falseness it might get some traction. I don't think the reservation that bands might claim a performance by claiming 'Go rounds' is of any concern. At the end of the day we rely on the honesty of bands and conductors to report what was done and not everyone has the same standards with the rules we've got so to say we are not allowing something because we can't trust people to use it responsibly is not the way to go!*

- A. We agree with all your points. The purpose of the framework is to provide terminology to describe what ringers choose to ring, not to try and impose limits -- that was our permissive / descriptive mandate. Your jump-n notation is a good suggestion -- it would be interesting to see in a performance report involving jump changes what the size of the jumps were. We haven't included this notation in the first version of the framework given that jump changes are rarely rung, but we've tabled this for consideration in a future version of the framework.
-

D. Call Changes

Q1. *Shouldn't the new framework also cover call change ringing?*

- A. Change ringing can be viewed as having two separate branches: method ringing and call change ringing. (The term 'call changes' is probably a simplification of what originally may have been 'called changes'.) When looking at how the framework (and previously the Decisions) supports method ringing, one finds that call change ringing doesn't require the same support. There's no central library of call change callings, no tradition of publishing call change performances, or ringing record lengths of call changes, and no practice of classifying call changes or extending sets of call changes to give related sets at higher stages. While there's no reason why the above couldn't develop, it hasn't to date.

For the reasons above, and also so we can keep our focus on implementing the framework for method ringing sooner rather than later, we therefore don't propose to include a description of call change ringing in the framework at this stage. However, there may be a case for adding this in a subsequent version of the framework if the ringing community thinks this would be useful. Alternatively, a separate framework for call change ringing could be developed. In either case, this should be led by specialists in the call changes field.

E. Method Naming

Q1. *I notice in the MicroSiril library that Baldrickdifferentiallittlebob is included in the Plain library. Where is it in the CCCBR library?*

- A. In Composition Library it can be found at <https://complib.org/method/search/?title=baldrick%20differential>. In the text files at <https://methods.cccbr.org.uk>, it appears in the Plain file. While there's a separate file for Differentials, this only includes differentials without hunt bells. Differential hunters are included with the corresponding classes of non-differential hunters.
-

Q2. *5.E/F: Existing methods should retain their old names as well as their new names. It should be valid to publish performances using either name. New methods should not use old names.*

- A. We think it would be too confusing and complicated to have (a) methods reported using more than one name, and (b) the previous name of a method whose name has been changed (e.g. due to a classification change that resulted in a naming conflict) to be reserved against future use. We think a better approach is for the methods library to be able to record alternative names by which certain methods are known, and for these names to be searchable within the library.

In any case, we only expect a very small number of methods to require a name change under the framework (see Appendix F.1). Some methods will get a new title (= name + class + stage) because of classification changes, but the vast majority of these will keep the same method name.

- Q3. *Relating to method titles changing under a revised classification system, what happens, for example, if you rename Champion Surprise Major to Champion Major? Can someone then create a new Champion Surprise Major, or is that name now dead?*
- A. As per the previous question, we don't propose to restrict re-use of a name where a method that previously used the name has been retitled. We do propose keeping a record of alternative / historical names used for methods in the methods library where appropriate.
-
- Q4. *How are spaces in method names treated? Is 'London No 3' different from 'Londonno3'? I guess not, but can't see how the algorithm mentioned removes spaces.*
- A. Item 4 of Appendix B (Method Name Syntax) describes the process for determining whether two method names are considered the same. The aim of this process is to prevent method names being so similar that they could easily be confused. E.g. London No. 3 and London No 3 would be considered the same under this process. However, the process doesn't go as far as eliminating all spaces between other characters. Multiple spaces are reduced to a single space, but a single space is considered different from no space. London No 3 would therefore be considered different from Londonno3. There are already examples of this in the method library -- for example, Whitehall Surprise Major and White Hall Surprise Major have both been named, as have Christchurch Surprise Royal and Christ Church Surprise Royal. The Technical & Taxonomy Workgroup will review similar method names when they occur, and may request that a band uses a different name to avoid possible confusion.
-
- Q5. *What will happen to methods and variations that have already been named with name clashes, if they exist?*
- A. The process for this is described in Appendix F.1 Transitional Arrangements, which also links to a schedule of the affected methods.
-

F. Whole-Pull Ringing

- Q1. *It would be useful to allow whole pull performances (i.e. every row repeated) -- but only when half-muffled.*
- A. A very important aspect of the new framework is that we are not seeking to allow or disallow certain types of ringing. Instead we're aiming to provide standard terminology that enables ringers to describe what they rang, so that other ringers can read about ringing performances and be clear on what was rung.
- Whole pull ringing doesn't follow the norms of method ringing. Under Section 6.C n) the report of a whole pull performance should therefore include a disclosure that the composition was rung in whole pulls. As noted above, whole pull ringing can work well when the bells are half-muffled.
-

G. Implementation

- Q1. *Link to methods library is missing; Section 5.A.1 (expanded)*

A. Thanks -- this has now been added.

Q2. *We should be prepared to get something agreed and continue to enhance & improve explanations over time rather than seek perfection before we publish. What is there is already much better than what we have.*

A. The framework team agrees. The first version of the framework won't be perfect, and it's doubtful there could ever be a perfect framework. We envisage a process of continuous improvement to the framework over time as issues and inconsistencies are discovered, and as method ringing continues to evolve.

Q3. *This may be the first location where I found a reasonable description of leadhead codes! An even better explanation of what these are and why they are important is almost certainly outside the scope of this framework, however, a lack of good understanding of what these are and why they are important is one of many barriers for new composers/conductors, especially those who do not have access to an experienced conductor in a mentoring kind of way.*

A. We think you're right that this is probably beyond the scope of the framework, at least for the first version. However we've now added 'They are a useful shorthand for communicating the Lead order of a Method' to the first paragraph of Appendix C, to give a high-level indication of their purpose.

Q4. *My own belief is that you should stop describing this work as 'technical' in the sense of difficult for ordinary people to understand. It is 'technical' in that it relates to a detailed understanding of what a method is. And for that, of course, it takes time to absorb in detail. However, if any of the framework requires additional (undocumented within the framework) knowledge in order to understand what the framework means, then this is a failure. I am not a composer, method designer, and not a very experienced conductor, but I am perfectly capable of understanding what these mean and their significance to the Exercise. And perhaps one day I might become one of these things, so making it accessible (which on the whole you have succeeded at) would help that to happen. You should also stop portraying this work as 'of interest to only a few ringers'. This is only partly true. Most ringers assume they are not interested because they are continually told it is not interesting. But every ringer understands that a method name consists of a title, a classification and a stage. This is part of the framework and is built into how we teach people about ringing. OK, the very finest detail is more esoteric, but then so are certain aspects of ringing history, or bellframe construction, or safeguarding issues, none of which we portray as too difficult for the ordinary ringer to understand.*

A. We agree that the framework shouldn't require any additional (undocumented within the framework) knowledge in order to understand what the framework means, and this has been one of our key goals. We hope we've achieved this, but welcome any suggestions on an ongoing basis on how the framework might be made clearer.

It hasn't been our intention to portray the framework as 'too difficult for the ordinary ringer to understand'. The framework is 'technical' in the sense that it includes theory and mechanics of method ringing, so the fine detail may be of more interest to specialists than to generalists, but

the fundamental content underpins method ringing and should be accessible to any interested ringer.

We have been cautious not to give the impression that we think every ringer ought to be spending lots of time studying the framework. Ringing has lots of problems to solve, including existential ones relating to the declining number of ringers and ageing demographics. We therefore wanted to get the balance right in saying there is value in having a well-thought-out framework for describing method ringing, but there are also many other challenges facing the Exercise that need ringers' time and energy.

Q5. *Appendix E.D.3 (formerly 2.B.3): Also add excludes concords (= chords) (see Campanalogia) where two bells ring at the same time. Also we are not considering irregular spaced ringing. Handstroke gap or cartwheel distinction also not part of ringing framework. Also combination - consider ringing minor cartwheel, but with open handstroke when tenor is behind previously!*

A. Appendix E.D.3 already notes that chords are outside the boundaries of what is considered method ringing. It doesn't seem necessary to further categorise chords into, say, concords and discords.

Irregular spacing and handstroke gaps are elements of striking. We decided for this first version of the framework only to make a general exhortation on good striking (see the definition of Performance - 3.K.1). We've also included a general ringing quality criterion to the role of umpire(s) in record lengths -- see 7.B.5. We've added handstroke gaps / cartwheeling, bell spacing and similar topics to the list of items for consideration in a subsequent version of the framework.

Q6. *It's common when reporting spliced performances to abbreviate Surprise to S, Delight to D, etc. But the framework doesn't cover this. Could it be added?*

A. Agreed and done. See 6.A.2.

H. Method Extension

Q1. *I could follow most of [Section 13 -- Method Extension Processes] (the diagrams are helpful), but I didn't understand just what a 'mode' was and what it was supposed to mean. It also wasn't clear that the example was Mode=2 from the supplied diagrams. What is the significance of Mode=2, and how is it different from Mode=1 or Mode=6? I understood that Mode has a number between 1 and the Stage (so 6 in this example), but I don't understand what the significance of the selection is. This seems important for the remainder of the criteria and how each section is defined.*

A. Thanks -- helpful feedback. We've now separately defined Mode in the framework (see Appendix D.A.4), and have shown in the further explanation of this section how different modes affect an example string of place notation.

Q2. *Re: Section 8.A: This may be something which could not, or is unlikely to, happen. Is it possible to name a method on 12 and it therefore becomes the Parent which then potentially precludes the use of the same name for lower numbers, given the current definition?*

A. Good question. Giving a new lower stage method the same name as an existing higher stage method isn't precluded provided the methods are related. E.g. assume XYZ Maximus has been rung and named. If a Major method is rung, and an extension process can be applied to the Major method to obtain XYZ Maximus, then the Major and Maximus methods are related. The Major method can therefore be named XYZ Major if all other extension requirements are met. The term 'parent' doesn't imply that the parent method was rung and named before any extensions were rung / named. Parent is just the lower or lowest stage method in a set of related methods.

I. Typos / Grammar / Layout / Formatting

Q1. *What is the status of sections 10-14? Reference is made to the extensions processes, but not the others.*

A. The previous sections 10-14 are now appendices in the latest version of the framework. As described in Section 1.C, the appendices are supporting material, and are not part of the framework itself.

Q2. *Likelihood is misspelled in Section 11, paragraph 1.*

A. Thanks -- fixed.

Q3. *I was unsure why section 4.A.5 requires 'in question' at the end.*

A. We felt that just 'a block' rather than 'a block in question' was insufficiently specific -- the former could be interpreted as 'any block'. The same applies to Sections 4.A.6, 4.A.14, 4.A.15 and 4.A.16.

Q4. *Section 7.B.5 -- 'be' is missing between 'must' and 'heard'.*

A. Thanks -- fixed.

Q5. *One small inconsistency: 7.C.4 refers to an umpires' report (thereby precluding a single umpire). 9.D.5 refers to the umpire(s)' report. 'Report of the umpire(s)' would definitively overcome this.*

A. We've changed 7.C.4 to refer to umpire(s)' report, consistent with 9.D.5. While we agree 'report of the umpire(s)' better handles both singular and plural instances, we felt that "umpires' report" is part of the record length vernacular.

Q6. *3.J.5 What are x and y? (integers, natural numbers, integers ≥ 0)*

A. This is just numbering / labelling. Agree that (x) and (y) could give the impression of representing quantities, so these have now been changed to (i) and (ii) to hopefully make

things clearer.

J. Record Lengths

Q1. *Re: Section 7.B, Record Lengths: This section requires the organiser to notify the RW and the Central Council of forthcoming attempt. Could this be changed to just 'The RW and CCCBR must be notified', without adding a requirement of who must notify? This simplification would avoid possible non-compliance if the conductor and not the organiser gave the required notices.*

A. Agreed -- thanks. This change has been made.

Q2. *There is some uncertainty in record length ringing as to what the umpires should do. Can the framework clarify this?*

A. Agreed. We've now expanded 7.B.5 to include, in general terms, the type of checking the umpire(s) should do. Also, 6.C.2.g states the norm that 'No person not ringing provided any assistance in the execution of the ringing during the Performance, e.g. making calls, detecting or correcting errors.' This replaces the 'No assistance of any kind' language of the Decisions. This means that if an umpire (or any other person present), say, picks up a ringer's water bottle that has fallen out of the ringer's reach, this is acceptable as it isn't assistance with the execution of the ringing. The same would apply to turning on a light, turning off a heater, etc.

K. Peals of Triples < 5040 Changes

Q1. *There is an obvious and elegant reason why a peal of Triples should be 5040 changes. I think it is illogical and unnecessary to change this.*

A. This may be the single most contentious issue that has emerged during the framework project, so here's a longer answer covering this point.

Clearly there's a strong link between the word 'peal' and the ringing of an extent of Triples, and in fact in the early days of ringing, peal was also used to describe the ringing of an extent of Minor.

It might have been more elegant if peals at all stages had originally been defined as 5040 or more changes. But peals of less than 5040 started to be rung for Major and above as early as 1755, and so the 5000 minimum for higher stages is long established, and dates to well before the Central Council was formed.

While many people would like to see 5040 retained as the minimum length for a peal of Triples, there are many others who support the simpler and more consistent approach of peals having a minimum length of 5000 changes at all stages. The limited data we have suggests a split of around 60/40, with the majority favoring standardisation on 5000 at all stages.

It's important to note that the framework gives ranges for the different performance lengths -- e.g. a QP is 1250 - 2499, and a half peal is 2500 - 4999. In this context, a peal having a range of 5000 - 9999 and being part of a bigger sequence of performance lengths supports standardisation on a 5000 minimum.

It's perhaps also worth noting that the length of the extent isn't part of ringing's performance terminology anywhere else. For example, a QP of Minor is reasonably close to two extents, but there wasn't a move to make 1440 the minimum number of changes for a Minor QP. This isn't a directly comparable situation given we recognise that the concept of a peal originated from the goal of ringing an extent. But it highlights that we can view standard performance ranges (<1250, 1250-2499, 2500-4999, 5000-9999, and ≥ 10000) as distinct from extent lengths (24, 120, 720, 5040) which are single numbers.

Setting the minimum length at 5000 for all stages allows those who want to continue ringing no less than 5040 to do so. But setting the definition at 5040 takes away the option of ringing between 5000 and 5039 from those who want it. Using 5000 is therefore the permissive option. It's clearly also the simpler option, as a peal can have the same definition across all stages.

There could be a separate carve-out for Triples – i.e. for all stages except Triples, a peal requires a minimum of 5000 changes, but for Triples the minimum is 5040. But this then raises several other questions: should a QP of Triples (the length that enables a new method to be named) be 1260 instead of 1250? Is a half peal of Triples 2520 and a long length of Triples 10080?

There could also be valid reasons for wanting to ring 5000-5039 Triples. There might be a wish to ring a peal in this length range for an anniversary of the last two numbers (e.g. a 5026 for a 26th birthday) and only a Triples band is available. There could be an interesting compositional reason for doing so -- e.g. there's a true, non-round 5039 of Grandsire Triples that only uses bobs. For over two centuries, composers have been searching for a bobs-only extent of Erin Triples. So far, the longest true bobs-only round block found is 4990 changes. If, say, a 5004 is found (before any longer length), a number of ringers would be interested in ringing it.

Even with a move to a standard minimum peal length of 5000, we can be sure that the vast majority of Triples peals will continue to be 5040 changes in length. There is, of course, something very elegant and appealing about ringing every possible row exactly once.

In 2016, the Decisions were relaxed to allow peals of Triples (and lower stages) to include partial extents. Previously a peal of Triples could only be whole multiples of extents (5040, 10080, 15120, etc). Under the current Decisions, they can be any length that is 5040 or higher. Since that update, 353 peals of Triples have been posted on BellBoard (at the time of writing). Only one of them took advantage of the Decision change -- a 5320 of Grandsire Triples -- the rest were all 5040s. The 5320 was an interesting performance because the composition was bobs only -- not something that can be done in a 5040 of Grandsire Triples. We have similar expectations that ringers will only choose to ring between 5000 and 5039 of Triples when there is a specific reason for doing so.

We've therefore retained 5000 as the minimum length for peals across all stages. This is the permissive approach, and keeping ringing terminology as simple and consistent as possible makes things easier for new ringers joining the Exercise. No one has to ring a 5000 – 5039 of Triples if they don't want to, but equally we don't think anyone should try to prevent those who do want to ring a 5000 – 5039 of Triples from claiming a peal, given this number meets the requirement for a peal at other stages. In any community such as ours there will be a wide range of opinions, and ultimately it's beneficial if we can find ways to coexist as peacefully as possible. No one thinks a 4999 should be a peal (ok, you could probably find someone who

thinks this), but there are many ringers who would like to see 5000 as the minimum peal length across all stages. The 5040 supporters can still choose never to ring peals of Triples that are less than 5040 changes. Live and let live.

L. Technical Comments

Q1. *Check mathematics for formal permutation definitions.*

Also cycle notation

(12)(34)(56)

3.C.1. unfortunately mathematicians seem to regard transposition differently:

<http://mathworld.wolfram.com/Transposition.html>

'For example, the swapping of 2 and 5 to take the list 123456 to 153426 is a transposition'

A. We've now added the following technical comment to 3.C.1: 'Note that in mathematics, transposition refers to the exchange of two elements. However in ringing, as well as in more general usage, transposition can involve the exchange of more than two elements. For example, ringers talk about transposing coursing orders, which often involves rotating 3 bells.'

Q2. *3.E.1. 'A sequence of Changes all of the same Stage, or a process to generate such a sequence.'*

The 'process' part is a little tricky and leaves scope for well defined, but useless definitions.

E.g. process

Ring [1.3.1.3.1.{7|5}.3.1.3.1.3.{7|5}]^840

where at each choice of 7 or 5, 7 is chosen unless it is impossible to generate a round block of the extent with any choice of following 7 or 5s.

This exists, but we don't know what it is.

It is a 'static method'.

[3.1.3.1.3.{7|5}]^840

where at each choice of 7 or 5, 7 is chosen unless it is impossible to generate a round block of the extent with any choice of following 7 or 5s.

This might, or might not exist.

What is this?

[3.1.3.1.3.{7|5}]^840

where at each choice of 7 or 5, 7 is chosen unless it is impossible to generate a longer or same length round block than if 5 is chosen, with any choice of following 7 or 5s.

This exists, but we don't know how long it is, but it is fixed and finite.

It is a static method.

Method PI Royal

Generate the digits of PI with a decimal expansion

1->10

2->12

3->30

4->14

5->50

6->16

7->70

8->18

9->90

0->X

ignore the first z digits until the remaining 3628800 changes generates the extent.

- A. Agreed that processes for generating sequences of changes could be well-defined but practically useless, as demonstrated by your examples. We've now added the following technical comment to 3.E.3 (Dynamic Method), that uses your bobs-only Erin example:

"Technical comment: A Dynamic Method should be capable of producing a readily-determinable sequence of Changes. A process such as 'Ring the Changes [3.1.3.1.3.{7|5}]^840 where at each choice of 7 or 5, 7 is chosen unless it is impossible to generate a Round Block of the Extent with any choice of following 7 or 5s' is not a valid Dynamic Method, even though this is a well-defined process.

"Dynamic Methods are in their infancy, and more precise definitions in this area may be developed for future versions of the framework if there is sufficient interest by the ringing community."

-
- Q3. 3.G.1 *"In addition to using a Method's whole sequence of Changes one or more times in a Composition, any subset of a Method's sequence of Changes may also be used."*

'Any subset'? including the empty set?

Do you mean contiguous chunk, or any random changes extracted from the method?

What about double bob minimus X14X34X14X12.

We can take any subset of those changes multiple times and have any other adjacent-change method.

- A. This is the known problem of overlap -- there isn't a way to define method ringing such that there is only one valid way to describe any given sequence of changes. E.g. Stedman can also be described as spliced Erin and Bastow Little Bob.

Any attempt to enforce a single way of defining a given sequence of changes results in valid ringing constructs also being ruled out. We therefore leave it to ringers to use their good judgement in deciding the best way to describe any given sequence of changes.

-
- Q4. 2.B.6 *Truth at N is every possible row not more than N times. Complete at N is every possible row at least N times. then with cover or fixed bells, truth is still maintained Completeness is all possibly distinct rows while maintaining fixed bells*

- A. Agreed. Put another way, and replacing N with M in your second sentence, we can say that any touch can be given a pair of numbers, N and M, relating to its truth.
For no rows repeated, $N = 1$ (e.g. a normal peal of Triples or higher);
For complete, $N = M$ (e.g. two extents of Grandsire Doubles, where N and $M = 2$);
For truth as defined in the framework, $N - M \leq 1$.

We found that we didn't need to define Complete for use elsewhere in the framework, though it is a commonly-used term when discussing truth. We therefore didn't include Complete in the interests of simplicity.

M. Second Consultation

Q1. I have nothing to add to the informed and refined Framework for Method Ringing as drafted.

A. Thank you for this feedback.

Q2a. *Good on the whole and easy to understand (unless you're on a mobile device!)*

A. Yes, we recognize the framework isn't easy to read on a mobile device. This is on the list of items to look at for future versions of the framework.

Q2b. *A couple of comments:*

4.A.1 mentions dynamic methods but no further explanation is given. I assume this would cater for the likes of Dixon's Bob Minor? How is this to be classified?

A. Yes, Dixon's is a dynamic method – the only one so far that is reasonably well known. Dynamic methods (with Dixon's as an example) are defined in 3.E.3. There is no proposed subclassification of dynamic methods at this stage, given there are so few of them. We have now added a note to this effect in 4.A.1.

Q2c. *4.E would be much easier to understand with an example.*

A. Good suggestion – examples have now been added.

Q2d. *Link missing from 5.D.1 + 5.D.2.*

A. Thanks, now updated. The calls and variations libraries are not yet provided by the CC (see Appendix F.4). Once they are, links will be added. We've now cross referenced Appendix F.4 from 5.D.2.

Q2e. *5.D.3 how do we classify April Day Triples, i.e. Plain Bob with Grandsire calls? Is it still Plain Bob?*

A. A variation has the same classification as the method on which it's based – see 5.D.4 a). So April Day has a Bob classification. But note that variations are currently only recorded in the library at the Doubles stage (see 5.D.3). The possibility of expanding the variations library to record variations at other stages is on the list of items for consideration in later versions of the framework.

Q2f. *5.E.1 b) should also use the word contain, instead of is, when talking about a round block, eg if a 1440 of Minor is rung during a multi method peal.*

A. In 5.E.1 b), round block is being used at the performance level – i.e. the complete performance is required to be a round block when naming a new method. The framework recognises non-round block performances (since the goal is to be descriptive / permissive) such as ringing that starts in Rounds and ends in Queens. But new methods have traditionally been named in round block performances, and the framework maintains this tradition. Note that a round block performance can comprise many smaller round blocks – e.g. a peal of 7 round block extents of

Minor.

Q3a. *With reference to: "6.B.4 The report of a Performance that used simulated sound must state that it did." This gave rise to a number of questions in my mind, and the the more I thought about it the more involved and complicated it got. So I've tried to précis my thoughts*

1) The Exercise of ringing is about controlling the bell(s). The art of producing a sound is that of the bell-founder -- nothing to do with ringing. So why stipulate the form of sound production? Does it matter if the bells are made of steel, or they are major third bells? If it's to do with people listening to the performance, would it be OK if the sound was broadcast from PA speakers on the tower?

A. The purpose of 6.B.4 is to provide information in performance reports that some members of the ringing community will want to know about. Some ringers will only want to read about performances that were rung with real bell sounds – clapper on bell metal. Others will be interested in reading about performances rung with real bell sounds or simulated sound. 6.B.4 lets readers find what they're interested in reading about.

This clause is not related to listening to the performance. The requirement for tower bells to be audible outside the building has already been removed from the Decisions (removed in 2017).

Q3b. *2) Is the problem to do with the possibility that the performance might be on DUMB BELLS? I recognise that the mechanism may be different, but if you don't differentiate between, say, "mini-rings" and tower bells, why should this be an issue? One still has to control the bell(s).*

A. We don't see a need for additional disclosure on dumb bells (or dumb handbells). By definition, these will have simulated sound, which will be disclosed under 6.B.4. The distinction between a performance rung on dumb bells with simulated sound, and a performance rung on tower bells whose clappers were tied and using simulated sound, doesn't seem crucial enough to warrant a specific disclosure. And in practice the distinction will often be clear from other parts of the performance report – e.g. where the performance was rung or the weight of the tenor.

Q3c. *3) Perhaps this statement was intended to refer to simulated RINGERS? It seems from what I've read elsewhere in your document that, provided an umpire was present, a single bell, rung by a single person, would be classified as a performance even if all the other bells were rung by simulated ringers and the performance otherwise met all other criteria. Is that correct?*

A. The framework assumes all bells were rung by human ringers. 6.B.1 f) calls for their names to be included in the performance report, 6.C.2 e) refers to bells being rung by people, and 6.C.2 h) and i) refer to the human way of ringing bells.

The single person plus umpire reference relates to (say) one person ringing a performance of Minimus on handbells with four-in-hand. It doesn't refer to computers ringing some of the bells.

The framework therefore doesn't cover ringing by pressing a key on a keyboard, and/or having a computer ring some of the bells. However, these sorts of performances are occasionally posted on BellBoard. In these cases 6.C.2 o) applies – the performance wasn't consistent with the framework, and therefore under 6.C.1, the performance report should state what took place.

Q3d. *Overall, I rather think that this clause goes against the spirit of your remit. In case it's relevant, I mention the following: I sometimes ring QPs on a simulator at a local ringing centre. When we first did this, the performance notices stated that they were "Rung on Abel". More recently, they give the name of the tower as the ringing centre, rather than the church. Performances on the open bells are given as rung at the church. Even so, as the bells are muffled and the sound control is in place when we ring on the simulator, it is still possible to listen to the bells if you stand at the base of the tower -- but traffic noise and natural attenuation is sufficient to make the bells virtually inaudible at the boundary of the graveyard. If the bells had their clappers tied this would be different -- but it would *feel* different to ring, too. What is important here? This needs some thought!*

A. We hope the comments above cover your points. In summary, the framework covers human ringers ringing full circle (tower bells) or alternating up-strokes and down-strokes (handbells), and if the sound was simulated, this should be disclosed. Use of simulated ringers and/or ringing by pressing a key is outside the framework and this should be disclosed in the performance report.

Q4a. *There are over 300 Slow Course methods in the CC Library, including nearly 20% of the 187 methods in the 1980 Doubles Collection. The earliest of these, Itchingfield, dates back to around 1900 and others were first rung in the 1950s. Why should it be necessary to rename these methods?*

A. We agree it's not ideal renaming (or retitling) any method. However, as ringing has evolved over the decades, the classification system has become overcomplicated, and given our 'simple' mandate, we believe some limited rationalization is helpful. We've deliberately limited the number of methods that are retitled as a result of our classification changes to keep this manageable.

The Slow Course classification is the most anachronistic and inconsistent classification in the Decisions. It's the only classification that depends on two different classes of hunt path being present, and it requires a specific bell (the 2nd) to have a certain hunt path. Retiring Slow Course results in a small but useful reduction in the complexity of the classification system.

There is also prior precedent for retiring classes that are felt to be no longer needed. E.g. the Imperial, College and Court classifications were retired in 1982.

It's planned for the methods library to store names / titles by which methods have previously been known, so once this is implemented, it will still be possible to search for Slow Course methods by their previous names / titles.

We're giving bands that named Slow Course methods the option to include either 'Slow' or 'Slow Course' in the method name if they wish.

Overall, it's a close call, but on balance we think the benefits of making some simplifications to the classification system outweigh the inconvenience of a small percentage of methods being renamed or retitled.

Q4b. *The framework attempts to define truth in a way that it can be applied to any performance without reference to the stage of the methods being rung. Whilst a laudable aim, this can lead to inconsistencies.*

Applying the criteria to the "Effective Stage" of a composition and not the "Composition Stage" means that e.g. a 240 of Doubles with the tenor behind could be claimed as a true touch of Minor where the tenor remains in 6th's place.

- A. Our view is that truth should be assessed on a block of rows, regardless of what composition was used to generate these rows. It's well-known that different compositions can generate the same rows (e.g. the same touch of Stedman can be produced by splicing Erin and Bastow Little Bob). In your example, even if the composition used Minor method(s), the 240 rows the composition generates have an effective stage of Doubles, so truth should be assessed at this stage.

Q4c. *"Accepted Truth" is intended to provide an algorithm for the equivalent of the existing decision on peals of Doubles and Minor, etc, that does not require the individual blocks to be specified. However, there are several problems with the resultant definition:*

- It includes possibilities not covered by the existing decision (e.g. an extent of Minor plus partial extents of both Doubles and Minor);

- A. Accepted truth generated a lot of debate among the framework team. Historically, peals of, say, 6 extents of Minor plus 6 extents of Doubles with a cover have been accepted as true, even though if these 5040 rows were all considered at the Minor stage, the performance wouldn't be true. We've therefore adopted the term 'accepted truth' to differentiate the two.

With this as the starting point, the question is then, do the two stages have to comprise complete extents, or can there also be partial extents? We're trying to be descriptive and permissive, so the answer is that partial extents should be recognized if bands choose to ring them.

The next question is should there be able to be a partial extent at both stages, or only at one stage. The Decisions required complete extents up until 2016, but then recognized a partial extent being rung at one of the two stages (but not both) from this point onwards.

In the interests of permissiveness, we started by recognizing partial extents at both stages. So, for example, a QP of 900 Minor and 450 Doubles could have accepted truth. The problem with this approach is that it gives some anomalous results. For example, a 720 of Minor and 2 plain courses of Stedman Doubles would appear to be false. But one of the plain courses of Stedman Doubles could be considered to be a partial extent of Minor, and therefore this performance could be viewed as 780 Minor and 60 of Doubles, and have accepted truth. This seemed wrong, so we've now updated the definition of accepted truth to only recognize a partial extent at one of the two stages.

Q4d. *- It excludes possibilities covered by the existing decision (e.g. extents of Doubles plus a partial extent of Minor);*

- A. This is intentional. We believe the rationale for accepted truth is that once you've rung all the possible rows on a given number of bells, there is justification in relaxing the definition of truth to enable more variety. From the meeting minutes, this seemed to be the intent of the 1898 Central Council debate on peals of Doubles and Minor. It also explains why the current Decisions don't recognize, for example, an extent of Triples and a partial extent of Major.

Q4e. *- It excludes touches that are True according to the more general definition (e.g. a 1440 of Minor ending with 56.56);*

- A. Agreed, and this has now been updated. The definition of Accepted Truth now includes anything that is True.
- Q4f. *- It does not address additional possibilities covered by the more permissive aspects of the framework, e.g. multiple cover bells or a cover bell leading.*
- A. This is also intentional. Performances of Doubles and Minor, etc have had a specific structure for many decades, and we don't see a case, at least in version 1 of the framework, for changing this.
- Q4g. *If we fully embrace the Descriptive, Permissive mandate, then I believe that the Accepted Truth definition is unnecessary. Instead, we only require that what is rung is accurately reported. The Performance Norms should be either of:*
- a) The performance consists of a single True composition, and the report should make clear both the length and (if there are any cover bells) which bells take part in the composition;*
- b) The performance consists of a series of separate True compositions, each reported as in a). If these are followed, it should be clear whether or not a peal complies with the existing decisions regarding truth, and so unnecessary to state that it does not.*
- A. We think it should be possible to determine truth just by inspecting the rows that were rung. No knowledge of the underlying compositions should be needed to determine truth. E.g. if two false compositions are rung back to back, but together they produce a true set of rows, the performance should be true.
- If compositions are performed side by side (e.g. on 12 bells, a Minor composition is rung on the front 6 and another Minor composition is rung on the back 6), truth should be assessed at the Maximus stage. The truth of the individual compositions isn't relevant in this scenario.
- Q4h. *3.E.1 of the framework defines a Method as "A sequence of Changes all of the same Stage, or a process to generate such a sequence". This dichotomy has bothered me from when it was first proposed. The notes make it clear that a "sequence" refers to a single lead, and could be a building block for a composition, or an entry in a methods library - but this does not capture the essence of a method, that it repeats indefinitely, and there is always a next change. A "process" is better, and could be applied to either a Static Method or a Dynamic Method. However, there is no indication of any restriction on what the process can be, or how it might be recorded: Are two processes that generate the same sequence the same Method? Is the process "Plain Hunt except 2nd's is made when the treble leads" the same as Plain Bob? Does a process have to be deterministic? Is "if it is Sunday, ring Grandsire, otherwise ring Stedman" a method?*
- A. We agree a method is hard to define rigorously, and if we were to use a fully rigorous definition, it would probably be very technical and not much use to "ordinary ringers". We've therefore applied a common-sense definition for version 1 of the framework. The benefit of defining a method in terms of a single plain lead is that this corresponds to what is recorded in the methods library.
- Our definition also allows for methods such as Dixon's, where the sequence of changes isn't fixed, but since such dynamic methods are only rung very rarely at present, we haven't attempted to develop fully precise definitions in this area. We also haven't tried to determine what restrictions (if any) should be applied to the processes underlying dynamic methods, nor specify how dynamic methods should be recorded in the methods library. These areas can all

be considered in future versions of the framework if there's sufficient interest by the ringing community.

Your statement "there is always a next change" is potentially problematic. While a static method's changes can be thought of as repeating indefinitely, a dynamic method could be created where, under a given condition, the sequence of changes ends.

Q5a. *"5.C.8: A Method should only be given the same Name as another Method in the Methods Library that has a different Stage if the requirements for Method Extension are met."*

I used to think that Class Descriptors each represented a 'name space' such that names could be re-used at will provided the Class Descriptor was different. From the wording here (including the use of 'should') it seems to be more complicated. But if for example I wish to name a new Triples principle 'Danbury', I'd like to believe that would be OK, without having to read all the material about Method Extension just because there are already similarly named Delight and Treble Place methods at a different stage.

A. That's correct – the Class Descriptor represents a namespace and method names can generally be reused within each namespace, as is the case under the Decisions. But see the example in 8.B.3 for an exception. Applying this exception to your example, you're generally free to name your Triples principle Danbury even though there may already be Danbury Delight and Danbury Treble Place methods. However, if a Doubles principle has already been named Danbury, you can only name your Triples principle Danbury if it's related to Danbury Doubles. Similarly, if Danbury Caters and Danbury Cinques have already been named, you can only name your Triples principle Danbury if it's on the same extension path as the Caters and Cinques methods.

There's no particular significance to the use of 'should'. These are requirements of the framework but we wanted to avoid authoritarian language such as 'must' or 'shall'.

Q5b. *8.A.1 Further explanation: The Central Council's collection of recognised Extension Processes can be found in Appendix B." It's in Appendix D. "*

A. Thank you – now fixed.

Q6a. *I'd like to make 2 points on the current draft of the framework:*

3.H.2 states "A Composition is described as Variable Cover if one or more Cover Bells are affected by any of the Composition's Calls." However, in dual-stage peals, quarter peals, etc. there may be only one bell which covers for the part(s) of the composition with a cover bell, but this bell is affected by calls (even if the call is simply the change of method). I would not describe this composition as 'variable cover' but under this current draft it could be described as such. (Perhaps that is intended, and dual-stage performances will be considered as variable cover, but I do not feel that they are currently viewed as such.)

A. Thank you – we agree the example you describe shouldn't be variable cover. We've now added the following to the further explanation of 3.H.2: "Note that a Composition is not considered Variable Cover if a Cover Bell is only affected by a change to a higher Stage Method such that the (former) Cover Bell is now one of the bells on which the Method's Changes operate."

Q6b. *6.B.1 and 7.B.2 both make reference to the date on which a performance takes place. There have been a handful of - often notable - performances in history which have taken place on*

more than one day e.g. 40320 Plain Bob Major on 27th-28th July 1963. I therefore suggest that "date" is replaced with "date(s)" in 6.B.1 and "date" is replaced with "start date" in 7.B.2

- A. On 7.B.2 (notice of record lengths), we agree the notification should say start date (as opposed to just date) – this has now been updated.

On 6.B.1 (content of performance reports), we did consider multiple dates, but since a goal is for performance reports to be easily stored in databases, we felt a single date field was preferable, given how infrequently performances span midnight. We've already stated in the further explanation for 6.B.1 that the date to use in the report is the date on which the performance ended. We've now added a sentence to the 6.B.1 further explanation suggesting that bands may wish to include the performance start date in the footnote if it's different from the end date (and in this case, perhaps also the start or end time).

Q7a. *7. Record Lengths:*

Q1: These currently go through the Peals team in the History & Archive Workgroup. Is it anticipated that the e-mailing of notices and reports will be continued by that team as an activity that is shared with the Technical workgroup?

- A. Yes. The Technical & Taxonomy Workgroup is happy to assist with any activities related to Record Lengths, but the activity and associated processes are currently the responsibility of the History & Archive Workgroup. The Framework has now been updated in this regard as this section was drafted when Peal Records Committee work was expected to fall in the Technical & Taxonomy remit. The Further Explanation sections in 7.B and 7.C now say "... can be emailed to the Central Council's History & Archive Workgroup at records@cccbr.org.uk."

- Q7b. *Q2: There is a final step in the current process where, the reports being assessed as being satisfactory, the RW Editor is informed that it is OK to publish the performance. Is it intended that this should continue?*

- A. Yes, this step is covered in Section 9.D.4. A further explanation has now been added stating that the CC's History & Archive workgroup performs this step.

Q7c. *9. Related Roles - E. Analysis and Reporting:*

Q1: Is it expected that the Peals team in the History & Archive Workgroup will continue to use their experience and skills to fulfil this requirement?

- A. Yes, this is our understanding. The Technical & Taxonomy Workgroup is happy to assist as requested. For example, it can help with the list of methods first rung during the year, noting that methods may be first rung in extents and quarter peals as well as peals, so all these should be included.

- Q7d. *Q2: How will the publishing of the report be managed?*

- A. Similarly, we understand that this is the responsibility of the History & Archive Workgroup. The Technical & Taxonomy Workgroup would be happy to help compile the report and/or review it for consistency and accuracy.

Q7e. *Q3: What is the purpose and audience of the reporting? If it is intended to inform Council debate and decisions, a calendar year report would be of reduced relevance due to the lateness of the CCCBR meeting. If it is for the wider edification of the ringing community then perhaps some thought needs to go into the content, scope and functionality that would be expected in a modern digital world.*

A. We believe that such reporting should be for the benefit of the Ringing Exercise as a whole as well as to inform Central Council initiatives, and would agree that it is beneficial to provide selected analysis online not just for the current year, but also for historic years.

We deliberately have not stated in detail the form or content of such reporting to allow flexibility and continuous improvement. The Technical & Taxonomy Workgroup would be happy to work with the History & Archive Workgroup and The Ringing World on improving and automating procedures for compiling, maintaining and presenting the analysis, from which a report to the Council can also be created with sufficient currency for the AGM.

Q7f. *Appendix F. Transitional Arrangements - 2. Retroactive recognition of Peals:*

Q1: Is it expected that the Peals team in the History & Archive Workgroup will continue to use their experience and skills to fulfil this requirement?

A. Yes. The Framework has now been updated in this regard as this section was drafted when Peal Records Committee work was expected to fall in the Technical & Taxonomy remit. The words 'T&T Workgroup' have been amended to 'History & Archive Workgroup' and the email address to 'records@cccbr.org.uk'.

Adding such peals retroactively should be similar to the approach taken for early peals identified from newspapers that are missing from the records. In this case, it may save effort to undertake a review of annual Central Council Reports for peals excluded from each analysis, and update the historic records accordingly - determining an appropriate course of action for any methods that have not been subsequently added to the CCCBR Methods Library.

Q8a. *I have number of fundamental objections to the framework as it is now presented and do not feel any of the points I have made previously have been adequately addressed.*

The framework does not meet the criteria specified by the Council, specifically it is not simple and does not use the simple straightforward language of real ringing; if the Council had asked for framework for the theory behind bellringing it would be more acceptable but it does not describe the real world of practical ringing.

A. The framework isn't attempting only to describe practical, everyday ringing. There are other publications that do this. It's attempting to be a framework that can describe all forms of method ringing. But this includes describing many forms of 'real ringing' that aren't covered by the Decisions, such as quarter peals, and ringing with more than one cover bell.

Q8b. *Also, too many terms are redefined to completely change their historic meanings, this is particularly true of the meaning of the term 'method' which is now defined to be something quite indeterminate, whereas historically it has always been a round block divisible into equal parts called leads. While the previous decisions of the Council had a number of serious flaws I do believe that, in many ways, they were nearer to what is required than the current theoretical approach which, in my opinion, is also fundamentally flawed.*

- A. The framework recognises a method that has one lead in its plain course, whereas the Decisions require a method to have 2 or more leads. The Decisions treat a one-lead method as a non-method block. The concept of non-method blocks has been widely criticized, and was a large impetus behind the CC vote in 2014 to undertake a fundamental review of the Decisions.

The topic of methods with one-lead plain courses was debated extensively by the Ringing Theory email group in 2014. A poll was taken to gauge views. 35 people responded to the poll and 80% supported methods being able to have a one-lead plain course.

Take the minor method 34.16x34x16.34.12. It has 5 leads in its plain course. If the last change is altered to give 34.16x34x16.34.16, the method now has 1 lead in its plain course. We don't see there is any justification or logic in saying that altering one place notation results in us no longer being engaged in method ringing.

In light of the above, and since there are only 7 non-method blocks in the methods library today (note the illogicality of including non-methods in a methods library), in the interests of simplicity we have eliminated non-method blocks and treated one-lead methods as methods.

There is a valid argument that methods with one-lead plain courses should be separately classified. We debated this and it was a close call, but we decided in the end that it was unnecessary to add a new classification for these methods. The classification system is already overly-complicated and we should be trying to simplify it rather than adding new classes. And if you rang, say, Bristol Surprise Major with a 12 lead end, this would still seem like ringing a surprise method.

- Q8c. *I think the committee has been disingenuous in not making clear the wide-ranging changes to terminology they are proposing in their comments in The Ringing World and so the rank and file ringer has been unaware of the nature of what is being proposed.*

- A. We think this is unfair. We've gone out of our way to be fully transparent at all stages of this project. The live draft of the framework has been publicly available on the Internet since Oct 2017, with the URL published in all 4 of our RW articles. Our second RW article (Mar 2nd 2018) outlined all the main changes in the new framework, including that methods with one-lead plain courses would be recognised.

We've held two ringing-community-wide consultations. The second of these was publicized very widely, including in the RW, on ringers' email lists, on Facebook and Twitter, on the CC website, and by communication to all CC members and to all CC-affiliated societies. It's hard to know what else we could have done to be more open about the nature of what we're proposing. No one else has accused us of disingenuity.

- Q8d. *As I have said previously I think what is needed is a precise description of change-ringing and that the definition of a method should not be expanded in the way it is to makes it all-encompassing but again almost meaningless as it becomes virtually the same as a lead or a block and so totally opaque to the normal ringer.*

- A. There is no practical way of limiting the definition of a method so that only nonsensical cases are excluded – this always results in sensible cases also being ruled out. Arbitrary limits on a method will annoy ringers who believe the limits have been set in the wrong place, as we've seen over the past 100 years. It's better to remove the limits and let ringers decide what they wish to name as methods.

Q8e. *I believe we are fundamentally change ringers and not method ringers and this is borne out by the fact that many Associations have 'Change Ringers' in their title and none as far as I know have 'Method Ringers'.*

A. We view change ringing as encompassing both method ringing and call change ringing, and since most associations support both, it makes sense for them to describe themselves as change ringing organizations. This subject was debated on the Ringing Theory list in 2015 and a poll was held. 77% supported the view that the difference between method ringing and change ringing is that the latter also includes call change ringing.

Q8f. *As examples of things that aren't methods but are perfectly acceptable pieces of ringing, Dixon's Bob Minor fell foul of the previous regulations because of the insistence that peals had to consist of methods and the methods had to conform to the decisions; the present framework invents a new category of method rather than describing what it is: a rule-based way of generating changes.*

A. All methods are rules (or processes) for generating rows. The rules may be simple (a fixed string of changes) or complex (the changes vary depending on other criteria), but the level of complexity shouldn't be used to prevent certain methods from being methods. We believe most people ringing Dixon's would consider themselves to be ringing 'a funny kind of method' as opposed to not ringing a method.

Q8g. *It is also easy to generate a true block of 24 changes of minimus which has no structure and if it were to be divided into 'methods' the choice would be pretty arbitrary; why does this have to be called a method when it is simply a round block; all successful ringing should be round blocks and there should be no necessity for them to contain leads or methods.*

A. A band that rings such a true block would normally want to record it in the methods library. It makes sense for the methods library to house methods, as opposed to other things.

There is a valid argument for detaching methods from peals, etc, and we've debated this (as has the Ringing Theory group). The consensus is that detachment leads to unnecessary complexity. There is valuable simplicity in using methods (together with calls and cover bells) as the building blocks for all performances.

We also shouldn't (and haven't in the framework) stipulate that all successful ringing should be round blocks – that's prescription not description. If a band chooses to ring a non-round block (such as the bobs-only 5039 Grandsire Triples), the only requirement is that they disclose in the report that the performance wasn't a round block.

Q8h. *We need honesty in ringing and if you ring a round block of 24 changes call it that, it can have a name if you want but it's a round block not a method, a method is simply a special case of a round block.*

A. As before, naming it means adding it to the methods library, which, logic dictates, should contain methods. And most ringers ringing a round block of 24 changes would think of themselves as ringing a method, having learnt the method's blue line, etc.

Q8i. *A few specific points:*

Rows: This definition has no connection with actual ringing and might be suitable from a compositional point of view, but not a practical ringing perspective. A definition such as 'A row is a sequence in which each of the participating bells rings once, and only once, all at the same stroke.' According to the definition given there no reference to where this sequence may occur so 531 at handstroke followed by 246 at backstroke would be a row.

- A. This is intentional. We're trying to be descriptive, not prescriptive. If a band wants to ring rows with odd-numbered bells on one stroke and even-numbered bells on the other stroke, we're not trying to prevent them. The current Decisions also don't preclude this.

However, your comment has brought to light that we don't have a disclosure requirement for such ringing. We've therefore added an item to the Performance Norms section (6.C.2) asking for disclosure if every row in a performance didn't have all the bells ringing at the same stroke.

- Q8j. *Rounds: The numbers refer to pitch so why not say 'A Row in which the bells are ordered from the highest pitch to the lowest pitch'*

- A. It's explained in the definition for Row that bells are numbered according to pitch. Given this, it seems better not to refer to pitch again in the definition of Rounds, but instead to refer to the now-established numbering of bells. Rounds is usually depicted in writing using bell numbers.

- Q8k. *Rounds also means the repeated ringing of this row.*

- A. Yes, this term has more than one use, as do many ringing terms. Ringing rounds is outside the scope of method ringing, so we don't think the framework needs to refer to rounds ringing per se. The definition of True shows how opening rounds and closing rounds traditionally bookend a method ringing performance.

- Q8l. *Change: Again the definition has no real connection with practical ringing. Most ringers would understand that a change is the transition from ringing in one order to a different order. Thus the definition of a change should be something similar to 'A Change is the transition from ringing one row to a different one at the next stroke'. The identity change is a purely mathematical concept, and alien to practical ringing where it is known as a repeated row.*

- A. This isn't correct. E.g., touches of Doubles are sometimes rung using a Single with place notation 12345. This call can be used to turn a 120 of Doubles into a 240 where every possible row appears twice, once at handstroke and once at backstroke. Experience has shown that most of the time, ringers don't notice the same row has been rung twice in succession, and they don't think that they weren't engaged in method ringing. The identity change clearly affects truth, but nothing more. And again, we want to be descriptive not prescriptive -- if bands choose to ring the identity change, we want the framework to have terminology that can describe this.

- Q8m. *The definition 'adjacent change' is a made-up one which will be confusing to many people as it could easily be mistaken for adjacent rows.*

- A. We expect most ringers will continue to use the existing term 'change' in relation to everyday ringing, and that's by design – we don't want to impose new terms on ringers unnecessarily (nor would we succeed). Using the more precise terms of adjacent change, identity change and jump change (which are the three sub-categories of change) will only be needed in more advanced situations.

Also, the Decisions and the framework both use the term ‘consecutive’ when referring to adjacent rows.

Q8n. *I don't think it necessary but think the basic rules for normal change ringing should be included (note this does not preclude other types of ringing but defines a normal standard)*

A. There will never be agreement on where to draw the dividing line for normal. 100 years of CC Decisions experience shows this.

Q8o. *Each bell rings once and only one in each row. In changes no bell may move more than one place at a time.*

A. This rules out jump changes. If bands choose to ring jump changes, as occasionally they do, we want the framework to be able to describe this. For those who don't want to read about such performances, the framework ensures performance reports make clear when jump changes were used so that readers can ignore these performances.

Q8p. *Methods and Blocks: I think the definitions are wrong and completely change the accepted meanings of several of these terms. A Block is a general term of a series of more than one changes.*

A. That's only one of the uses of block. E.g. round block refers to rows. We've noted in 3.D.1 that block has more than one meaning, and the framework's use of block isn't intended to preclude any other use.

Q8q. *There are several types of block, for instance a round block, a lead, a division, a part of a peal composition. The definition of a method as a sequence of changes all at the same stage could be anything;*

A. This is by design. There's no practical way to limit the definition of a method that doesn't also rule out sensible cases.

Q8r. *The characteristics of a method are (i) it is a round block of changes, (ii) it is divisible in to equal parts and (iii) it does not contain any calls. Your definition does not meet any of these criteria so is clearly wrong. I will say no more as I think the whole framework needs to total rethink to reconnect with the historic definitions of change ringing and not simply coin a series of terms, which may be relevant to the theory of ringing, but really have no relevance to the normal ringing done in our bell towers.*

A. (i) All fixed sequences of changes will produce a round block if the sequence is rung enough times. The framework defines a plain course of a method in this way. The framework defines a method in terms of a plain lead rather than a plain course. This is to give consistency with what appears in the methods library for each method (the place notation for a plain lead).

(ii) As noted above, we don't see any justification for preventing a method with a one-lead plain course from being a method. The alternative treatments are worse.

(iii) We agree a method doesn't contain any calls. The definition of a call makes clear that a call modifies a method, so it should be clear that a method by itself doesn't contain any calls. Making this point explicitly would lead to circular definitions (the definition of method would use 'call' and the definition of call would use 'method'), which we've tried to avoid for obvious reasons. However, we note that the current Decisions say in the definition of a call that a call is not part of the definition of a method, and we don't have this in the framework. We've

therefore now added this to our definition of call.

- Q9a. *3.B.1. As phrased, this appears to imply that a Row may be missing one or more bells. If this is not the intention why the “no more than once” language rather than a more explicit “in which each bell appears exactly once”?*
- A. The problem is that ‘each’ would be undefined – e.g. each bell in England? See FAQ B.27.
- Q9b. *3.E.5. As worded 7,007 consecutive Plain Leads of Cambridge Major is a Plain Course (it’s an application of the method’s sequence of change repeatedly, and is a round block). I doubt that this is intended. If it is intended, then I think all methods have a countably infinite set of different plain courses, which would seem surprising.*
- A. The definition says ‘... until a Round Block is obtained’, meaning the first occurrence of a round block, which occurs after 7 plain leads. We don’t believe this wording will cause any confusion.
- Q9c. *3.E.5. I wonder if it should be made explicit that the whole of the method’s sequence of changes should be applied at each repetition? You could have a method that comes round in the middle of what is commonly considered it’s plain course, and that is arguably “apply its sequence of changes repeatedly until a round block is obtained.” I think this could be fixed by say something like “applying all of a static method’s sequence of changes” or something like that.*
- A. This is covered in the technical comments. In general, we’ve tried to keep edge case complexity out of the main definitions.
- Q9d. *3.F.1. The strict wording of this seems a bit ambiguous, as in normal conversation “replace X with different X” might well be construed to imply at least one X thingie is being replaced by at least one different X thingie. Making it explicit with “zero or more changes” in both places might be worthwhile. Yes, the Further explanation does make this clear, but section 1.C implies the further explanations are not normative.*
- A. We did have “zero or more” language in this definition at one stage, but took it out on the basis that it was overly-technical (which we’ve been criticized for). In general, we’ve attempted to keep the definitions as straightforward as possible, and use the further explanations to add clarity where needed.
- Q9e. *3.F.2. Is there a “calls library” yet?*
- A. Not yet. 3.F.2 has now been updated to refer to Appendix F.4, which explains this.
- Q9f. *3.G.1 and 3.G.2. I don’t think, as currently worded, this works as desired. Consider two consecutive standard extents, one of Cambridge Minor and one of London Minor. I believe the intention of 3.G.2 is that this not be considered spliced. However, the wording of 3.G.1 certainly allows this to be a single composition of length 1,440, which is spliced.*
- A. Even if your two standard Minor extents are considered to be a single composition of 1440 changes, the change of method occurs at rounds (or more precisely, the same row as the initial row). The 1440 composition is therefore not spliced.
- Q9g. *3.H.2. Consider the little minor method with place notation 5.1.5.3.5.3x4x6. Now consider a touch of it spliced with a doubles method, with half lead changes of method in the minor, where only the first half-lead of the minor method is ever rung. Does not 3.H.2. describe this as*

“variable cover” since the changes of method do, in principle, affect the tenor, even though in the end it never leaves 6ths place?

A. Agreed. We’ve now added the following further explanation: “Note that a Composition is not considered Variable Cover if a Cover Bell is only affected by a change to a higher Stage Method such that the (former) Cover Bell is now one of the bells on which the Method’s Changes operate.”

Q9h. *3.J.1. The further explanation contradicts the definitions: it says methods and compositions can be extents, but that is not possible — an extent is a set of rows, while methods and compositions are sets of changes. Note that this is not about order, which is the point the further explanation is trying to make, it is about what are the constituent bits of the sets/sequences under consideration.*

A. The further explanation doesn’t say that a method or composition can be an extent – as you say, methods and compositions are sequences of changes, whereas an extent is a set of rows. The explanation says, “... when used with a Method or Composition (e.g. an Extent of Plain Bob Minor), this generally refers to an ordered Extent generated using the Changes of Plain Bob Minor (and any necessary Calls).” I.e. “used with a Method or Composition”, not “is a Method or Composition”.

Q9i. *3.J.3. The technical comment should say “the effective stage of a block all of whose rows are the same” — a block can’t be comprised of just rows, as it is explicitly defined as a composite of both changes and rows.*

A. Agreed – updated.

Q9j. *3.J.4, second sentence. Consider a method, the last change of whose plain lead is an identity change. By splicing this with another weird method you could easily come up with a “true,” in the colloquial sense, MEB in two different ways, one including the last row and one excluding it. It’s making my head hurt trying to figure out exactly how this relates to this the second sentence of 3.J.4, but I suspect it may not be quite what is intended or desirable.*

A. We think this works as is. In your example, the composition will determine whether the last row is included or excluded. Truth is then determined from the block produced by the composition (including consideration of whether or not the block is round).

Q9k. *4.D.1. It seems odd that the triples method 1.127 is classified as plain, but 1.127,125 is not; in fact, the latter method has no classification.*

A. We’ve revisited how stationary bells are classified, and in the end decided to make them all Treble Place, regardless of lead length. There’s nothing ‘plain’ about a method with a stationary bell, and Treble Place seems the most fitting class for these (Treble is a proxy for hunt bell, and Place, as in ‘making places’, is what a stationary bell does).

Q9l. *4.D.6. It seems odd that you can’t have a Little Jump method. For example, it is pretty obvious how to construct Cunning Little Vixen Little Treble Jump Major, is it not? Or maybe we just let the name of that be “Cunning Little Vixen Little Treble”? I guess with Jump stuff being so unexplored it makes sense to leave things as simple as possible, but it might be worth a note or something, I dunno.*

A. We’ve had lots of debate on this topic. For now, any hunter that has jump changes is sub-classified as Hybrid, in addition to being a member of the Jump class. But as you say, there may

be a case for enabling hunters with Jump changes be part of other hunter sub-classes (e.g. X Jump Surprise Major, Y Jump Differential Little Treble Bob Royal), as well as possibly adding a sub-class where the hunt bell jumps (e.g. Cambridge Treble Jump Minor). This is on the list to be revisited in a subsequent version of the framework.

Q9m. *5.A.1 Further explanation: the link is rather oddly structured: the whole sentence “The Methods Library can be accessed here” is blue and looks like a link, but it is only a word “here” that is a link — for a long time I thought there was no link at all, and only stumbled over the last word being a link accidentally, so I suspect it will confuse others, too.*

A. Agreed. It's a little garish, but for now we've made all framework hyperlinks green. To be revisited in a subsequent version of the framework.

Q9n. *5.A.1 More on the link: it is odd that the page is headed “Compositions Library,” when what you believe you’ve been directed to is the “Central Council Methods Library.” In fact, those verbatim words do not appear anywhere on the page that is the target of the link.*

A. Agreed. We’ve now changed this link to <https://methods.cccbr.org.uk>.

Q9o. *5.B.1 A strict reading of “The Class Descriptor is formed by concatenating...” would appear to imply that the class descriptor of, say, a little surprise method, is “LittleSurprise” rather than “Little Surprise”. Things are concatenated with spaces added as necessary. And, of course, when adding something that’s blank, no additional space is added.*

A. That’s the computing use of concatenate. We think the more general dictionary definition “linked together” makes clear what is intended here.

Q9p. *5.C.2 and similar sections: it would be nice if these cross references to appendices were links.*

A. Agreed. However, there are over 100 cross references in the framework and we thought it would be too difficult to manage all these as manual hyperlinks. This is on the list to revisit in a subsequent version of the framework, ideally finding a way to automate the management of cross reference hyperlinks.

Q9q. *5.C.3 should “would result in its Method Title being the same” instead be “would result in their Method Titles being the same”?*

A. Agreed – updated.

Q9r. *5.D.1 it seems surprising that the Further explanation points at the Methods Library rather than the Variations Library. Perhaps some redistribution of the further explanations of this section and following is warranted?*

A. Agreed, the methods library reference was included in 5.D.1 in error. Now updated.

Q9s. *5.D.2 Is there a Variations Library yet? Or a Calls library?*

A. Not yet. 5.D.2 has now been updated to refer to Appendix F.4, which explains this.

Q9t. *5.D.3 Further explanation. When it says “At Stages other than Doubles, Method Names are independent of the Call or Calls used.” While this was mandated in the past (and I see no reason to change it), it does *not* appear to be mandated in this framework. Again, a further explanation does not appear to be considered normative according to 1.C. If this is to be a*

requirement, it needs to be stated somewhere else, I think. And if it is a requirement, “currently only records Doubles Variations” seems an odd way to phrase it, since there are no other kinds.

- A. We’ve flagged the question of variations at higher stages for future consideration. There are many performances of April Day Triples on BellBoard, and also one of April Day Caters, and perhaps these should be recorded in the Variations Library. Hence why we used “currently” in 5.D.3. But in light of your comment, the further explanation for 5.D.3 doesn’t add anything particularly useful, so we’ve now removed it.
- Q9u. *5.E.2 In the FAQ (C.1.) it states that you can indeed have variations that cannot be rung to an extent, but need an MEB. But this section appears to prohibit naming such a variation, as it requires an extent to name it. Something’s fishy.*
- A. 5.E.2 only requires the naming performance to contain an extent of the new variation – i.e. all rows of the extent occurring somewhere in the performance. This could be achieved through a single extent rounds block, but also through an MEB (multi-extent block).
- Q9v. *6.A.1 and 6.A.2 These sections seem to be trying to have it both ways. The normative text is loose, yet the further explanations seem to be trying to say something normative. This doesn’t seem right. If what the further explanation states really is required, it needs to be stated in the definitions, right?*
- A. Technically you’re probably correct, but this is an area where we thought we needed to take a pragmatic approach. We consider the further explanations to be ‘best practice’ guides on how to report performances. Ultimately ringers and The Ringing World will decide how to report performances, so it seems of limited effect for the framework to try and mandate a set of requirements in this area.
- Q9w. *6.A.1 further explanation b)4. This is wholly new, right? Presumably it only applied to new reports? Is there a reason for adding this, which has never been viewed as necessary in the past?*
- A. We included Mixed as an optional term because so many performances are reported on BellBoard as Mixed.
- Q9x. *7.A.2 You may recall that some years ago Rod Pipe (I think it was he) tried to arrange an extent of Plain Bob Caters, to be rung by several teams of ringers in relays. It never came off, but if it did now, this section states that it would not be considered a record length. That seems a shame.*
- A. We think it’s important for records to be broken under a consistent set of conditions. It wouldn’t be fair to the band that rang (not in relay) the existing record length of Plain Bob Caters if their record could be broken by a relay performance where each individual ringer may ring fewer changes than in the existing record. There may be a case for a separate category of records for relay performances, but we think this can be considered in a subsequent version of the framework, or be considered if such a performance is rung.
- Q9y. *8.A.1, further explanation: the list of recognized extension processes is actually appendix D, not appendix B as stated here.*
- A. Thanks – now corrected.

Q9z. *8.A.1 further explanation: “in the case of a static method, the structure of the method is its place notation”. This seems overly constricting. While certainly the blessed extension stuff of the CCCBR-past has always been place notation based, it would seem plausible that even for static methods a different sort of scheme might be adopted in the future. I don’t have anything specific in mind, but it seems one of those areas where clever people in the future could push boundaries, and we don’t want to impede them needlessly.*

A. Perhaps, though it’s difficult to imagine a method that falls within the definition of a static method not having a structure that can be represented using place notation. Since the new Central Council governing structure will enable the framework to be updated more efficiently than was possible with the previous Decisions, we believe your point here can be addressed effectively in the future if a problem arises.

Q9aa. *8.C.1 further explanation. Some sections point folks at methods@cccbr.org.uk, and others at technical@cccbr.org.uk. Is this deliberate? If so, what is the algorithm for deciding what goes to which? Would not a single entry point be a better approach, even if someone then has to route requests as appropriate?*

A. We’ve now settled on the following two email addresses for the framework: methods@cccbr.org.uk and records@cccbr.org.uk. The reason for having two email addresses is to separate responses based upon the relevant function – methods or records. Under the new CC structure, enquiries to methods@cccbr.org.uk will be handled by the Technical and Taxonomy workgroup, and enquiries to records@cccbr.org.uk will be handled by the History and Archive workgroup. However, this separation would be useful even if these functions were in the same workgroup.

Q9ab. *And, finally, just re-iterating something I wrote to Tim a month ago: I am gob-smacked at how well this turned out. As I think you know, I was skeptical, but at this point I’m really impressed. I may have hoped for something shorter, but that hope really wasn’t practical, and I think the result really is a huge improvement and will serve the future well. I think you folks have done a great job. Thank you!*

A. Thanks – much appreciated.
