

## Masterpoint and player information upgrades

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## Overview

NZB (New Zealand Bridge Inc) seeks to further automate processes to reduce administrative costs through a set of changes which ultimately may lead to data-driven reviews of the current Grading and Ranking scales, the possibility of a national handicapping system and improved flexibility within NZB to respond to the pulls and pushes of demand from our players and clubs.

A less extensive set of upgrades carried out on the broadly equivalent Australian Bridge Federation Masterpoints system five years ago saved an enormous amount of time (and therefore cost) on the collection and calculation of Masterpoint awards. ABF runs at about 20% or lower of the cost per player for Masterpoints and basic administration, with 35,000 affiliated players versus 14,000 at NZB.

Although the current Masterpoints computer system has provided tremendous service over many years, it is no longer economically effective and it is likely that over 100 man days each and every year could be saved through automation and a move to a fully web hosted administration system.

This document is provided to assist bridge scoring system suppliers to understand and adapt to the changing requirement of bridge in New Zealand. It is a draft and continued feedback is more than welcome as we seek the best possible outcome for clubs, players and suppliers.

The term “Session” is used regardless of whether it is a round, round-of-16, stanza, match etc, and the term “Final”.

## Status as at Jan 12th 2017

The project kicked off in August 2016 and we are making progress as budgeted and scheduled.

We expect the first “real” testing with selected clubs in late February. A detailed specification is attached to this news item.

The three main scoring system suppliers in NZ --- Martin Oyston Bridge NZ Scorer, Bob Fearn Compass Scoring and Peter Busch Altsoft Compscore 2 --- have each completed initial testing of loading of results from their systems to our website, and downloading player information. A bulk upload from the current Microsoft Access environment to the new website also completed initial testing, thanks to Chris Jared.

All four groups have been most helpful in making positive suggestions and further refining the Phase 3 specification.

Mainly completed elements to date include:-

- Results upload all specified event types i.e. Teams, Swiss, Pairs ...
- Player info downloads
- Player maintenance, moving from club to club, initial enroll etc
- Club maintenance (address, website etc.)
- Tournament maintenance (dates, booking info, etc.)
- Electronic Masterpoints invoicing by email, and Levy invoicing, along with drill-downs for detail

We are at the stage where it almost looks ready, but there are extras that will inevitably arise, oversights to manage and a raft of minor but important integrations to complete. It is always a delicate balance between preparing a perfect specification, which could take years, and running with a best effort but expecting to make some adjustments as we progress. We chose the latter route.

Some third parties have expressed an interest in advertising their services on the NZB website.

## Summary of phases from the viewpoint of a club

Phase 1 live in Q2 2015 was the launch of the re-vamped website [www.nzbridge.co.nz](http://www.nzbridge.co.nz) for improved management of news and tournament listings along with the clubs' database which incorporated addresses, club maps, results website address, etc. Phase 2 in Q1 2016 was the addition of online tournament entries and payment facilities for Congress on the website.

Phase 3 aims to:

- Provide a self-service internet hosted registers of clubs, members and tournaments
- Create a national results database for all play affiliated clubs which could ultimately form the basis of national bridge skill measures, league tables and the like
- Revise results upload formats on clubs' scoring systems to manage Masterpoints centrally on the internet platform operating in 'good time' shortly after a session or round is completed, nationally
- Periodic electronic invoicing rather than paper-based for levies and Masterpoint billing
- Allow clubs to be proactive in tracking the activities of their members e.g. identifying who hasn't played for a while
- Individual players manage their core details (name, email, phone, communications preferences etc.)
- Administration facilities allow each club to manage their own members and to pass a member from one club to another
- Allow clubs to manage their own tournaments and tournament entries
- Slight amendments to Masterpoints tables for consistency and ease of calculation (see Appendix 19)
- Non-affiliated clubs results could be accommodated within the process if required but these are beyond the scope of this phase

## Current Masterpoints system description and rough timings

The heart is an old Access standalone database, parts of which date back to the mid 1980's, which periodically feeds a rough copy of itself to a web-based SQL database on an internet server which in turn is interrogated by users on [www.nzbridge.co.nz](http://www.nzbridge.co.nz).

The plan is to abandon the dual Access and SQL versions after a parallel running period of at least three months. The earliest start of parallel running is around February 2017 with initial testing to commence with dummy data in early December.

Once proven we will then shut down the old processes including email uploads to NZB of results. Thus during the extended parallel run period the old and new Masterpoint processes will run side by side.

An important element is to have results posted in "good time" at the end of each session of play. The objective is to better engage players with the Masterpoints system and allow them to compare and contrast their efforts against those of their peers.

## Method of transfer

The proposed method to upload the results files to the server is via a standard FTP connection, and to download player information via the same interface.

The details of the **FINAL** connection will be advised. The **temporary** test site credentials are:

Host:	redacted
user:	redacted
Password:	redacted

This will connect directly to the folder where the files are to be stored. There will be no other folder access and once uploaded the central system will carry out processing.

The 100+ affiliated clubs will share the same access credentials.

For those with a technical interest, the destination setup is a LAMP stack open source web platform commonly used to run dynamic web sites and servers. It includes Linux, Apache, MySQL and PHP and is considered by many the platform of choice for development and deployment of high performance web applications which require a solid and reliable foundation.

## File upload names

Files are identified by the contents of the first line of the text file: thus suppliers may use any file naming convention they wish for uploads but they must be names unique to the club and identify the club. File names need to be generated by a formula rather than by input by the person scoring the session.

The file naming convention is restricted to lower case a-z, digits 0-9, underscores (\_) and a .txt extension (no spaces nor special characters please).

Nothing outside the ASCII character range of 32-126 should be used (see Appendix 17.4 and highlighted areas). Double quotes = 34, Single quotes or apostrophe = 39 and Comma = 44.

Ideas for file names include the examples below:

Quality	Name	Description
Bad	december_summer_pairs_clubname.txt	The system can't distinguish the date so next year's event could overwrite the previous year's, losing the information and the Masterpoints accrued in the previous year
Bad	12345.txt	Another club could use the same name: need to identify the club uniquely even if the numbering sequence looks sensible
Bad	jubilee_cup.txt, monday_night.txt, etc.	Too vague
Good	106_2017_03_14_jubilee_session1.txt 106_341567.txt	Club, date, event all clear Club and a unique batch identifier of some kind understood by the scoring system

### Special circumstances

NZB treats each results uploads as a batch representing the achievements of one session and is uniquely identified by the file name supplied by the scoring system. Thus an event played over three sessions may have four uploads: sessions 1-3 and the final ladder.

Inevitably it is only when something odd happens that computer systems are challenged.

Condition	Description
<b>There are scoring corrections</b>	Re-load the corrected file with the <u>same</u> file name. The system will cancel the entire earlier session results and re-load from scratch. In other words there are no "partial corrections".
<b>The file was incorrectly described (e.g. 201-03-05 rather than 2017-03-06).</b>	As above
<b>A player "Bob Smith" was misidentified as "Robert Smith"</b>	As first case (note that the file would include player numbers rather than their textual name as in this example or Mr Smith)
<b>Something extra-ordinary occurs outside the scope of usual activities</b>	The website will allow the manual entry of a set of results over the internet without any file upload
<b>A completely wrong batch was loaded</b>	Either re-send the file with the same name but empty apart from the first line descriptor, which will erase the entire result, or use a website screen to delete a batch in its entirety (see later).

### Manual entry / batch deletion

The website will have the ability to enter a manual entry for special cases which will inevitably arise. This can be used to enter an entire field or one or two entries. A short text describing the reason for manual entry will also be requested for subsequent review after posting.

A manually entered batch of results creates, behind the scenes, its own text results file and will be processed in the next cycle of updates. The frequency of the cycle is to be determined.

Similarly a website screen will also allow the complete deletion of batch in its entirety by either a club administrator or, in emergency, by NZB administrators.

**Manual Results Entry**

Event Name

Club  Event Date

Location  Event Type

Section  Movement

Round  Scoring Unit

Masterpoints Type  Points Awarded

Boards Played  Lists

---

Placing  Score  Entry Players

## Results file format

Uploads are required for each event, and several when there are multiple sessions and / or sections. For example a three session event with two sections in each session should generate seven uploads (3 x 2 + final).

The first line of the file describes the information contained in the file as in the table below using a comma as the column separator. Text is quote delimited.

The allowable characters are a-z, A-Z, 0-9, space, full stop or decimal point (.), double quotation marks as text delimiters ("), equals sign for drawn places ("="), apostrophe ('), comma as a delimiter (,) and hyphen (-). Nothing outside the ASCII character range of 32-126 should be used. Double quotes = 34, Single quotes or apostrophe = 39 and Comma = 44. See Appendix 17.4.

Column	Description
<b>Date</b>	Long digits yyyy-mm-dd hyphen separator
<b>Club ID</b>	Integer e.g. 103=Akarana. See Appendix 1.
<b>Location</b>	Key text ("Upstairs room", "Main room"), can be blank e.g. "" which will often be the case at smaller clubs
<b>Event name</b>	Key text "Winter Pairs Event"
<b>Type</b>	Pairs, Teams, Swiss, Point-a-Board, Multiple teams, Butler etc.. (Reference only, no action is taken against these values)
<b>Section</b>	Key 0/1, A/ B, Blue/Red/Green etc., can be blank e.g. "" at smaller events
<b>Round</b>	Key (either a digit representing a Round/Session/Stanza/Round of 16 or whatever phase is relevant to the event, or the value "99" making this the Final placings for a multi-round event). There are so many phrases used which is why we would prefer to use digits with 99 for the Final.
<b>Movement</b>	Free text Mitchell/Howell/Hesitation etc. Reference only.
<b>Score unit</b>	PCT, IMPS, VP, MPS, PTS, XIMPS: delimited text used for processing.
<b>Masterpoints type</b>	A, B or C
<b>Masterpoints award</b>	Clubs sessions: 40 for all club sessions (final club ladders coded 99 should be uploaded but will not calculate C points) B events: 3, 5 or 8 A events: 3, 5, 10, 15, 20 or 25
<b>Boards played</b>	Integer number of boards played
<b>One LIST/ TWO/ MULTIPLE</b>	Whether the results are expressed as 1 = Single list of placings e.g. first to last 2 = Two lists (North South and East West within a session) 3 = Multiple for teams/Swiss results for a round
<b>SYS ID VERS</b>	Short text made up of a unique code for each contributing system and current version ... perhaps  CS2 = Compscore 2 + version number/code SCORER= Scorer + version number/code COMP= Compass + version number/code

Line 2 onwards has the following format, also using a comma as the separator:

Column	Description
<b>Placing</b>	1, 3=, etc..
<b>Score</b>	A number with up to 2 decimals: the unit of the number is described by the Type of Score column in the first line.
<b>Player(s)</b>	Up to six NZ Bridge computer numbers separated by commas, no leading zeroes, no white space, no space(s)

Various combinations are described in Appendices 4 onwards.

If an empty file is re-submitted without any content the first descriptor line is required: this will result in the entire batch being deleted. The inclusion of the descriptor line allows the system to distinguish between an empty file and one where there may have been some kind of failure via FTP where an empty file can be created in some circumstances.

An important aside is that the revised proposed results format include more information than mere top third placings as today, and the reasons for this is that NZB wishes to build up a significant dataset over time to allow if wanted a much more data-driven analysis for consideration of Gratings, rankings etc. which is currently not possible. We wish to stress that NZB has no interest in providing "rich" analyses of, for example, the best line of play on a hand or how players X and Y managed to make a contract.

## Initiation of results upload

Scoring systems should automatically upload results when the session/ladder results are printed/posted. Any corrections need to be re-processed using the same file name as described in Special Circumstances.

NZ Bridge is especially keen that results uploads take place in “good time” to give some immediacy to the Masterpoints revenue generating process: currently some clubs may only carry out updates every few weeks.

It is likely that the NZB central host will cycle constantly looking for new information at 60 second intervals but the exact interval will be determined during testing.

[PENDING: the “best” trigger point for the upload for each scoring system]

## Results validation and confirmation

Each results upload will undergo basic validations and the success or failure of a batch is reported on a display on the website which the person scoring can use to check whether the upload was successful or otherwise. An email confirmation will not be send since there are often many different individuals scoring and they are unlikely to all have access to the email account.

The success/failure screen will be arranged by club and show each unique file name supplied and the status of each upload.

## Input of new players

The current NZB process for the allocation of bridge numbers is to provide a list of numbers which are then manually adopted and ultimately passed on to NZB.

Numbers and the information related to new players will in future be assigned online via a new screen which will capture the basic information about players including:

Column	Value	Comment
<b>NZB number</b>	Up to 10 digits	Assigned automatically for new players but exceptions for returning players. NZB number is currently 4 or 5 digits. Thus there will be separate screens for input of a new players and for editing existing player information. No leading zeroes, white space, space(s).
<b>First name</b>	Alpha 30	First and Preferred default to the same value: but the “full” first might read “Bertram” while the preferred might be “Bert”.
<b>Preferred name</b>	Alpha 30	
<b>Family Name</b>	Alpha 30	
<b>Home club</b>	Select list of 100+ clubs affiliated clubs	This will default to the club of the administrator logged in and making the change but the administrator may set the Home club to be any affiliated club as against the list in Appendix 1.
<b>Year of birth</b>	yyyy	OPTIONAL but please note that NZB levy is likely to be linked automatically to this column for electronic invoicing at some point in the future. Without a year of birth the Home club may be invoiced the full levy for a player even if they are eligible for a discounted levy. NZB may introduce a charges along the following lines but this is <u>outside</u> the scope of this stage of the project:  Up to 21 years Free Up to 30 years 10% of levy Up to 75 years Full levy Up to 85 years 50% of levy Over 85 years Free  This is an EXAMPLE ONLY and does not reflect NZB policy.
<b>Gender</b>	1, 2, 3, 99	Used for league tables and rankings such as Baden Wilson, and available in filter reports. See Appendix 2 for codes
<b>Source</b>	Choices	<ul style="list-style-type: none"> <li>• A new players from your lessons or referrals</li> <li>• Has played previously in NZ and is returning to the game, in which case NZB will search for old records on your behalf</li> <li>• Temporary casual visitor</li> <li>• Australian player (NZB can look up their records to assist in Grading)</li> </ul> Driven from a static data table see Appendix 2
<b>Country</b>	One of NZ, AU, Overseas	We used these in filter reports and to exchange Masterpoints with Australia

<b>Grade</b>	Choice of Open/ Junior/ Intermediate	For new players this is the club's best estimate BUT Overseas players start at Open until they are able to demonstrate otherwise. Grades can only be altered by NZB after initial setting by a club.
<b>Handicap</b>	Number to 2 decimals	Not yet used
<b>STATUS</b>	Choices	Active through to Unknown, see Appendix 2

### Exchange of player information from NZB to scoring system

A .txt file called "nzb\_master\_player.txt" will be available in the same directory as used for the uploading of results via the FTP mechanism containing perhaps 20,000 lines of comma-delimited information for all players recognised by NZB currently and in the past. It will be ordered by date stamp descending (e.g. last modified records first).

During the process of uploading a set of results each scoring system should check the timestamp of the nzb\_master\_player.txt and re-process as required.

The layout of the text file is as below. A subset of the information initially collected about new players is returned to every club.

Text is quote delimited, columns are comma delimited.

Column	Description
<b>Stamp</b>	Date in yyyy-mm-dd format
<b>Number</b>	Up to 10 digits. NZB numbers are four or five digits but the extra size many allow pre-loading of other numbering systems. No leading zeroes.
<b>First name</b>	Free text 30 characters
<b>Preferred name</b>	Free text 30 characters (example is Robert and Bob)
<b>Family name</b>	Free text 30 characters
<b>Home club</b>	Code as Appendix 1
<b>Grade</b>	Open, Intermediate, Junior (a club can initially assign any grade to any new player but subsequently grade changes need to be processed by NZB): see Appendix 2 for codes and details
<b>Stars</b>	Integer
<b>Rank</b>	Novice through to Grand Master: see Appendix 2 for codes and details
<b>Rating points</b>	Integer
<b>A</b>	Accrued A points to date
<b>B</b>	Accrued B points to date
<b>C</b>	Accrued C points to date
<b>Handicap</b>	Number to 2 decimal places, not yet used
<b>Gender</b>	See Appendix 2
<b>Status</b>	Active to Unknown, see Appendix 2

Two example follow, the first being an legible version, the second being in encoded computer format using the code tables in Appendices 1 and 2.

Stamp	Number	First name	Preferred name	Family name	Home club	Grade	Stars	Rank	Rating points	A	B	C	Handicap	Gender	Status
2016-09-13	12345	Robert	Bob	Smith	Auckland	Junior	0	Cert of Prof	31	0	3	47	0	M	Active
2016-09-12	4156	Freda		Young	Franklin	Open	1	Life Master	201	107	43	2	0	F	Active
2016-09-01	6177	Alfred	Fred	Bates	West Otago	Junior	0	Novice	0	0	0	0	0	M	Active

And the .txt file for the entries above would appear as:

```
"Stamp","Number","First","Preferred","Family","Home","Grade","Stars","Rank","Rating","A","B","C","Handicap","Gender","Status"
2016-09-13,12345,"Robert","Bob","Smith",106,1,2,31,0,3,47,0,2,1
2016-09-12,4156,"Freda","","Young",124,3,8,201,107,43,2,0,1,1
2016-09-01,6177,"Alfred","Fred","Bates",633,1,1,0,0,0,0,0,2,1
```

## Summary of facilities required of scoring system providers

1. An option in the scoring system to force a download of all registered players (“nzb\_master\_player.txt”), and the scoring system to use if needed the date stamp to determine which records need processing. The final file name will be advised during testing. However the stamp will be set on a material event which excludes changes to A, B or C point totals.
2. An option in the scoring system to send an empty results file to cancel a session previously uploaded in its entirety
3. An option on the website to cancel an set of results by deleting a batch on line in its entirety
4. An option website to enter a manual set of results online
5. When uploading session results to check if there are updates to the player records
6. Nothing in this specification in any way prevents or restricts the posting results to other analysis and display websites, including those offering rich analysis facilities
7. Eventually NZB wishes to take advantage of the new facilities to modify the Masterpoints system and the implication for scoring package suppliers is that they may not wish to spend too much effort calculating awards for local presentation

## Feedback

We are genuinely keen to receive constructive criticisms, clarifications and to learn about improvements which could be made to this specification from scoring system suppliers. Please contact either:-

- Karen Martelletti at NZ Bridge [karen.martelletti@nzbridge.co.nz](mailto:karen.martelletti@nzbridge.co.nz)
- AJ Hopkins at [anthony.hopkins@fieldporter.com](mailto:anthony.hopkins@fieldporter.com)

## Appendices

### Appendix 1 – Club ID’s

Three additional special codes are highlighted at the end of the list. Non-affiliated clubs are included in the list for completeness, but it is by no means a complete list! PENDING: a comment was made that this list is incorrect. Note that the un-affiliated club numbers are invented. At some stage in the future NZB may wish to link its current tournament database directly to the results supplied by a club, but this is outside the scope of Phase 3 Code

	Name	Region
	<b>103</b> Akarana	Auckland Northland
	<b>106</b> Auckland	Auckland Northland
	<b>115</b> Dargaville	Auckland Northland
	<b>118</b> East Coast Bays	Auckland Northland
	<b>124</b> Franklin	Auckland Northland
	<b>127</b> Hibiscus	Auckland Northland
	<b>130</b> Howick	Auckland Northland
	<b>138</b> Kerikeri	Auckland Northland
	<b>139</b> Mt Albert	Auckland Northland
	<b>145</b> North Shore	Auckland Northland
	<b>147</b> Orewa	Auckland Northland
	<b>148</b> Paihia	Auckland Northland
	<b>151</b> Papakura	Auckland Northland
	<b>154</b> Papatoetoe	Auckland Northland
	<b>122</b> Royle Epsom	Auckland Northland
	<b>160</b> Waiheke	Auckland Northland
	<b>163</b> Waitemata	Auckland Northland
	<b>166</b> Warkworth	Auckland Northland
	<b>172</b> Whangarei	Auckland Northland
	<b>502</b> Akaroa	Canterbury
	<b>503</b> Ashburton	Canterbury
	<b>506</b> Christchurch	Canterbury
	<b>509</b> Crockfords	Canterbury
	<b>512</b> Geraldine	Canterbury
	<b>530</b> Rangiora	Canterbury
	<b>536</b> Temuka	Canterbury
	<b>539</b> Timaru	Canterbury
	<b>545</b> United	Canterbury
	<b>551</b> Waimate	Canterbury
	<b>303</b> Dannevirke	Central Districts
	<b>306</b> Feilding	Central Districts
	<b>309</b> Gisborne	Central Districts
	<b>312</b> Hastings	Central Districts
	<b>315</b> Havelock North	Central Districts
	<b>318</b> Hawera	Central Districts
	<b>302</b> Hokowhitu	Central Districts
	<b>321</b> Levin	Central Districts
	<b>322</b> Marton	Central Districts
	<b>324</b> Napier	Central Districts



327	New Plymouth	Central Districts
329	Pahiatua	Central Districts
330	Palmerston North	Central Districts
333	Stratford	Central Districts
336	Taihape	Central Districts
339	Taradale	Central Districts
342	Waipukurau	Central Districts
345	Wairoa	Central Districts
348	Wanganui	Central Districts
603	Alexandra	Otago Southland
606	Balclutha	Otago Southland
609	Cromwell	Otago Southland
610	East Otago	Otago Southland
612	Gore	Otago Southland
615	Invercargill	Otago Southland
616	Maniototo	Otago Southland
618	Milton	Otago Southland
621	Oamaru	Otago Southland
622	Otago	Otago Southland
624	Queenstown	Otago Southland
627	Taieri	Otago Southland
630	Te Anau	Otago Southland
631	Wanaka	Otago Southland
633	West Otago	Otago Southland
636	Winton	Otago Southland
705	Golden Bay	Top of the South
715	Kaikoura	Top of the South
720	Marlborough	Top of the South
725	Motueka	Top of the South
730	Nelson	Top of the South
735	Picton	Top of the South
740	Richmond	Top of the South
745	Westport	Top of the South
203	Cambridge	Waikato Bays
206	Hamilton	Waikato Bays
209	Huntly	Waikato Bays
211	Katikati	Waikato Bays
212	Kawerau	Waikato Bays
215	Matamata	Waikato Bays
218	Morrinsville	Waikato Bays
221	Mt Maunganui	Waikato Bays
223	Omokoroa	Waikato Bays
230	Putaruru	Waikato Bays
236	Rotorua	Waikato Bays
237	Taumarunui	Waikato Bays
239	Taupo	Waikato Bays
242	Tauranga	Waikato Bays

245	Te Aroha	Waikato Bays
248	Te Awamutu	Waikato Bays
251	Te Puke	Waikato Bays
254	Thames	Waikato Bays
257	Tokoroa	Waikato Bays
259	Waihi	Waikato Bays
260	Waikato	Waikato Bays
263	Waitomo	Waikato Bays
266	Whakatane	Waikato Bays
403	Hutt	Wellington
406	Kairangi	Wellington
409	Kapi Mana	Wellington
412	Karori	Wellington
415	Masterton	Wellington
417	Otaki	Wellington
418	Paraparaumu	Wellington
420	South Wairarapa	Wellington
421	Upper Hutt	Wellington
424	Victoria	Wellington
427	Waikanae	Wellington
430	Wellington	Wellington
999	NZB Congress	New Zealand Bridge
1060	Achilles	Unaffiliated
1002	Amberley	Unaffiliated
1003	Bishopdale	Unaffiliated
1040	Clevedon	Unaffiliated
1004	Cranmer	Unaffiliated
1015	Darfield	Unaffiliated
510	Diamond Harbour	Unaffiliated
1001	Eastern	Unaffiliated
1110	Elizabeth	Unaffiliated
1005	Fairlie	Unaffiliated
1014	Hahei	Unaffiliated
1006	Hanmer	Unaffiliated
1007	Hawarden	Unaffiliated
1008	House of Cards	Unaffiliated
136	Kaitia	Unaffiliated
1009	Lincoln	Unaffiliated
1020	Manurewa	Unaffiliated
1011	Mt Pleasant	Unaffiliated
1130	North Beach	Unaffiliated
1010	Old Stonehouse	Unaffiliated
1013	Opotiki	Unaffiliated
1030	Parnell	Unaffiliated
1070	Remuera	Unaffiliated
1012	Sumner	Unaffiliated
1018	Te Puna	Unaffiliated

<b>1160</b>	Waimakariri	Unaffiliated
<b>1016</b>	Whangamata	Unaffiliated
<b>1017</b>	Whitianga	Unaffiliated
<b>819</b>	Overseas (not AU)	Other

<b>820</b>	Australia	Other
<b>5000</b>	Temporary	Other
<b>9999</b>	Unknown	Other

## Appendix 2 - Codes

The static tables below are only accessible to NZB administrators (and not other levels of administrator) and it should be possible to edit, add and delete records as needed although obviously some amendments would have profound implications. These will be held within the Management tab of the administration module.

### CODE PLAYER GRADE CODES

<b>1</b>	Junior
<b>2</b>	Intermediate
<b>3</b>	Open
<b>99</b>	Unknown

### CODE PLAYER RANK CODES

<b>1</b>	Novice
<b>2</b>	Certificate of Proficiency
<b>3</b>	Club Master
<b>4</b>	Local Master
<b>5</b>	Provincial Master
<b>6</b>	Master
<b>7</b>	National Master
<b>8</b>	Life Master
<b>9</b>	Grand Master
<b>10</b>	Silver Grand Master
<b>11</b>	Gold Grand Master
<b>99</b>	Unknown

### CODE PLAYER COUNTRY CODES

<b>1</b>	New Zealand
<b>2</b>	Australia
<b>3</b>	Overseas
<b>99</b>	Unknown

### CODE PLAYER GENDER CODES

<b>1</b>	Female
<b>2</b>	Male
<b>3</b>	Other
<b>99</b>	Unknown

### CODE PLAYER STATUS CODES

<b>1</b>	Active
<b>2</b>	Dormant

3	Temporary
9	Deceased
99	Unknown

CODE	PLAYER SOURCE CODES
1	A new players from your lessons or referrals
2	Has played previously in NZ and is returning to the game, in which case NZB will search for old records on your behalf
3	Temporary casual visitor
4	Australian player (NZB can look up their records to assist in Grading)
99	Other

REGION ID	REGION NAME	REGION WEBSITE	LAST UPDATED
1	Auckland Northland Region	<a href="http://www.anrcbridge.org.nz/new">http://www.anrcbridge.org.nz/new</a>	5/12/2016 12:47
2	Waikato Bays Region	<a href="http://www.waikatobays.bridge-club.org/">http://www.waikatobays.bridge-club.org/</a>	
3	Central Districts Region	<a href="http://cdregionnzl.wordpress.com/">http://cdregionnzl.wordpress.com/</a>	
4	Wellington Region	<a href="http://www.wellingtonregionbridge.nz/">http://www.wellingtonregionbridge.nz/</a>	
5	Canterbury Region	<a href="http://www.canterburyregionalbridge.co.nz/">http://www.canterburyregionalbridge.co.nz/</a>	
6	Otago Southland Region	<a href="http://otagosouthlandbridge.org.nz/home.php">http://otagosouthlandbridge.org.nz/home.php</a>	
7	Top of the South Region		
8	Other		
9	New Zealand Bridge	<a href="http://www.nzbridge.co.nz">http://www.nzbridge.co.nz</a>	
10	Unaffiliated with NZ Bridge		

### Appendix 3 – Score units

Initially NZB will not carry out any analysis nor calculations with the results provided from scoring systems but there is a requirement to indicate the units supplied. In time we wish to analyse the dataset to perhaps move towards new types of player recognition, handicapping, etc.

Code	Description	Example
<b>PCT</b>	Percentage up to 2 decimal places without the "%" sign. Note that final results and ladders should be presented as the weighted average for the round. See Appendix 17.1.	55.12
<b>VP</b>	Victory Points with up to 2 decimal places. Final scores should be cumulative e.g. scores of 10, 12 and 14 would show 36 in the final ladder	10.15
<b>IMPS</b>	International Match Points, up to 2 decimal places, Final cumulative.	124
<b>PTS</b>	From Point-a-Board events as IMPS	8
<b>MPS</b>	Matchpoints, as IMPS	710
<b>XIMPS</b>	Cross-Matchpoints, as IMPS	710

### Appendix 4 – Pairs results two lists NS and EW

Date	Club ID	Location	Event name	Type	Section	Round	Move ment	Score unit	Masterpoints type	Masterpoint s award	Boards played	One LIST/ TWO/ MULTIPLE	System
"2016-06-17"	106	"Upstairs"	"Winter Pairs"	"Pairs"	"	2	"Mitchell"	" PCT"	"C"	40	26	2	SYS ID VERS

"2016-06-17", 106, "Upstairs", "Winter Pairs", "Pairs", "", 2, "Mitchell", " PCT", "C", 40, 26, 2, SYS ID VERS  
 1, 60.01, 44137, 30505  
 2=, 57.50, 38441, 20093  
 2=, 57.50, 39805, 39806

4, 52.50, 26828, 21615  
 5, 50.00, 15778, 2341  
 6, 47.50, 4355, 21761  
 7, 45.00, 40370, 37607  
 8, 40.00, 36751, 36752  
 1, 55.00, 35997, 35998  
 2, 53.00, 3143, 15537  
 3, 51.00, 2167, 36064  
 4, 49.00, 41970, 37594  
 5, 47.00, 18288, 4204  
 6, 45.00, 36966, 37902  
 7, 43.00, 36035, 42382  
 8, 0, 0, 0

The first line (description line) identifies the content.

If for special reasons you wish to recognise a Phantom or Bye please make sure their performance is 0 units of MPS, IMPS, PTS or VP's and Byes/Phantoms "players" are identified with a zero.

### Appendix 5 –Pairs results one list

Date	Club ID	Location	Event name	Type	Section	Round	Move ment	Score unit	Masterpoints type	Masterpoints award	Boards played	One LIST/TWO/MULTIPLE	System
"2016-06-17"	106	"Upstairs"	"Winter Solstice Pairs"	"Pairs"	"Blue section"	3	"Howell"	"PCT"	"C"	40	24	1	SYS ID VERS

"2016-06-17",106,"Upstairs","Winter Solstice Pairs","Pairs","Blue section",3,"Howell"," PCT","C",40,24,1,SYS ID VERS

1,62.15,2748,19728  
 2,60.58,24005,41172  
 3,59.7,35503,20075  
 4,57.17,33038,33052  
 5,56.82,33854,33857  
 6,56.64,18285,26137  
 7,54.63,11898,56607  
 8,51.4,1913,8084  
 9,50.44,1608,1997  
 10,50.17,10696,36736  
 11,47.9,61986,43288  
 12,47.55,22929,10588  
 13,47.47,36392,31057  
 14=,45.89,16419,31091  
 14=,45.89,1459,35999  
 16,45.54,1610,36744  
 17,43.97,24783,5384  
 18,43.79,1792,25424  
 19,38.72,10088,20078  
 20,33.57,25128,39803

### Appendix 6 –Pairs 11-20 boards

Date	Club ID	Location	Event name	Type	Section	Round	Move ment	Score unit	Masterpoints type	Masterpoints award	Boards played	One LIST/TWO/MULTIPLE	System
"2016-06-17"	106	"Green Room"	"Autumn Pairs sponsored by ABC"	"Pairs"	"	5	"Mitchell"	"PCT"	"C"	40	16	2	SYS ID VERS

"2016-06-17",106,"Green Room","Autumn Pairs sponsored by ABC","Pairs","",5,"Mitchell"," PCT","C",40,16,2,SYS ID VERS Etc..

16 Boards in this example, the central Masterpoint calculation uses this to set the number of C points allocated.

### Appendix 7 –Pairs 1-10 boards

Date	Club ID	Location	Event name	Type	Section	Round	Move ment	Score unit	Masterpoints type	Masterpoints award	Boards played	One LIST/TWO/MULTIPLE	System
"2016-06-17"	106	"Green Room"	"Ethel Gertstopper Pairs"	"Pairs"	"	2	"Mitchell"	"PCT"	"C"	40	8	2	SYS ID VERS

"2016-06-17",106,"Green Room","Ethel Gerstopper Pairs","Pairs", "",2,"Mitchell", " PCT", "C",40,8,2,SYS ID VERS  
Etc..

8 Boards in this example, the central Masterpoint calculation uses this to set the number of C points allocated.

### Appendix 8 –Pairs final (no “C” points)

Date	Club ID	Location	Event name	Type	Section	Round	Movement	Score unit	Masterpoints type	Masterpoints award	Boards played	One LIST/TWO/MULTIPLE	System
"2016-06-17"	106	"Green Room"	"Fred Truman Pairs"	"Pairs"	"	99	"Mitchell"	" PCT"	"C"	0	48	1	SYS ID VERS

"2016-06-17",106,"Green Room","Fred Truman Pairs","Pairs", "",99,"Mitchell", " PCT", "C",0,48,1,SYS ID VERS  
Etc.

Although it might seem unnecessary to submit a final club ladder where C points are not awarded, NZB is keen to recognise all levels of play and requires these kind of ladders to produce automatic monthly roundups of player achievements at the club / regional level.

### Appendix 8a – Pairs round 25A

Date	Club ID	Location	Event name	Type	Section	Round	Movement	Score unit	Masterpoints type	Masterpoints award	Boards played	One LIST/TWO/MULTIPLE	System
"2016-06-17"	106	"Green Room"	"Huge champs 25A"	"Pairs"	"Purple"	3	"Mitchell"	" PCT"	"A"	25	24	2	SYS ID VERS

"2016-06-17", 106, "Green Room", "Huge champs 25A", "Pairs", "Purple", 3, "Mitchell", " PCT", "A", 25, 24, 2, SYS ID VERS  
Etc..

### Appendix 8b – Pairs final 15A

Date	Club ID	Location	Event name	Type	Section	Round	Movement	Score unit	Masterpoints type	Masterpoints award	Boards played	One LIST/TWO/MULTIPLE	System
"2016-06-17"	106	"Orange Room"	"Huge champs 15A"	"Pairs"	"	99	"	" PCT"	"A"	15	104	1	SYS ID VERS

"2016-06-17",106,"Orange Room","Huge champs 15A","Pairs", "",99,"", " PCT", "A",15,104,1,SYS ID VERS  
Etc..

Please note that PCT scores should be the WEIGHTED AVERAGE of the rounds making up the final ladder: please see Appendix 17.1.

### Appendix 9 – Teams round

Date	Club ID	Location	Event name	Type	Section	Round	Movement	Score unit	Masterpoints type	Masterpoints award	Boards played	One LIST/TWO/MULTIPLE	System
"2016-06-17"	106	"Main room"	"Summer Teams Champs"	"Teams"	"	3	"	"VP"	"C"	28	14	3	SYS ID VERS

"2016-06-17",106,"Main room","Summer Teams Champs","Teams", "",3,"", "VP", "C",28,14,3,SYS ID VERS  
1, 12.1, 44137, 30505, 1246, 1967  
2, 7.9, 38441, 20093, 21134, 76512  
1=, 10.00, 39805, 39806, 96152, 22123  
1=, 10.00, 6828, 21615, 8716, 11987  
1, 19.1, 15778, 2341, 9791, 17181  
2, 0.9, 4355, 21761, 17281, 84719  
1, 12.0, 87182, 98123, 12345, 34567  
2, 0, 0, 0, 0

Note that the last entry shows a team enjoyed a bye and the scoring programme/director set the 12 VP for the bye (or any other number at the discretion of the Director). Scoring 12 would accrue a Masterpoint win: scoring 10 accrues a draw, scoring under 10 would accrue Masterpoints.

### Appendix 10 – Club Teams final ladder

Same as Pairs but with more player numbers!

Date	Club ID	Location	Event name	Type	Section	Round	Movement	Score unit	Masterpoints type	Masterpoints award	Boards played	One LIST/TWO/MULTIPLE	System
"2016-06-17"	106	Main	"Real Estate Inc Teams"	"Teams"	"	99	"VP"	"VP"	"C"	0	62	1	SYS ID VERS

"2016-06-17",106,Main,"Real Estate Inc Teams","Teams","",99,"VP","VP","C",0,62,1,SYS ID VERS  
 1, 160.00, 44137, 30505, 97123, 197812  
 2=, 157.50, 38441, 20093, 8181, 98188  
 2=, 157.50, 39805, 39806, 66161, 87277  
 4, 152.50, 26828, 21615, 87182, 71666, 41112, 1111

Etc..

There can be up to 4, 5 or 6 members of a team as in the example for the 4<sup>th</sup> placed team.

### Appendix 11 – Swiss pairs round

Date	Club ID	Location	Event name	Type	Section	Round	Movement	Score unit	Masterpoints type	Masterpoints award	Boards played	One LIST/TWO/MULTIPLE	System
"2016-06-17"	106	"Main room"	"Autumn Swiss Champs"	"Swiss Pairs"	"Orange room"	4	"	"VP"	"C"	16	8	3	SYS ID VERS

"2016-06-17",106,"Main room","Autumn Swiss Champs","Swiss Pairs","Orange room",4,"","VP","C",16,8,3,SYS ID VERS  
 1, 12.1, 44137, 30505  
 2, 7.9, 38441, 20093  
 1=, 10.00, 39805, 39806  
 1=, 10.00, 6828, 21615  
 1, 19.1, 15778, 2341  
 2, 0.9, 4355, 21761  
 1, 12, 41256, 23456  
 2, 0, 0, 0

### Appendix 12 – Swiss pairs final ladder

Date	Club ID	Location	Event name	Type	Section	Round	Movement	Score unit	Masterpoints type	Masterpoints award	Boards played	One LIST/TWO/MULTIPLE	System
"2016-06-17"	106	"Main room"	"Regional Swiss Champs"	"Swiss Pairs"	"	99	"	"VP"	"A"	5	60	1	SYS ID VERS

"2016-06-17",106,"Main room","Regional Swiss Champs","Swiss Pairs","",99,"","VP","A",5,60,1,SYS ID VERS  
 1, 60.00, 44137, 30505  
 2=, 57.50, 38441, 20093  
 2=, 57.50, 39805, 39806  
 4, 52.50, 26828, 21615

### Appendix 13 – Individual final

Date	Club ID	Location	Event name	Type	Section	Round	Movement	Score unit	Masterpoints type	Masterpoints award	Boards played	One LIST/TWO/MULTIPLE	System
"2016-06-17"	106	"Blue room"	"Winter Individual"	"Individual"	"	99	"	"PCT"	"C"	0	96	1	SYS ID VERS

"2016-06-17",106,"Blue room","Winter Individual","Individual","",99,"","PCT","C",0,96,1,SYS ID VERS  
 1, 60.00, 44137  
 2=, 57.50, 38441  
 2=, 57.50, 39805  
 4, 52.50, 26828  
 5, 50.00, 15778  
 6, 47.5, 12191  
 7, 45.00, 40370

Note that the PCT should be the weighted average over the rounds (see Appendix 17.1).

### Appendix 14 – Multiple Teams

Should be treated as an IMPS event.

### Appendix 15 – Point a board

Treat as Teams rounds with “PTS” as the unit rather than IMPS, VP, XIMPS or MPS.

### Appendix 16 – Back to the Future Teams

As Pairs.

### Appendix 17 – Any others of significance?

Other?

#### Appendix 17.1 – Weighted averages

Please note that % scores should be the weighted average of the number of boards in each round making up the final ladder. If there were different numbers of boards played in each round the weighting should be done according to the number of boards.

In this example of three rounds scoring 40%, 45% and 50% playing 20, 22 and 24 boards respectively in each round then the weighted average would be calculated as:-

$$\text{WEIGHTED AVERAGE} = (40\% * 20 / (20 + 22 + 24)) + (45\% * 22 / (20 + 22 + 24)) + (50\% * 24 / (20 + 22 + 24)) = 45.30\%$$

However if an event has its own special rules, perhaps about carry-overs, then these rules would over-ride the formula above.

#### Appendix 17.2 – Grade, Rank, Rating Point and Star calculations

There are (currently) three grades and 11 Ranks as in the tables in Appendix 2. Players can move annually up and down between Grades and can only progress up the Ranks (no downwards movements). Stars are related to Ranks and Masterpoints. NZB can reset any player’s Grade or Rank or Stars or Rating Points at any time.

##### Rank calculation

Ranks are calculated from the cumulative all-time sum of A and B Masterpoints according to the table below.

CODE	PLAYER RANK CODES	SUM OF A AND B POINTS	THRESHOLD A POINTS
1	Novice	-	-
2	Certificate of Proficiency	5	-
3	Club Master	20	-
4	Local Master	50	-
5	Provincial Master	100	50
6	Master	200	100
7	National Master	350	175
8	Life Master	500	250
9	Grand Master	1,000	500
10	Silver Grand Master	2,500	1,250
11	Gold Grand Master	4,000	2,500
99	Unknown	-	-

Since the calculation is cumulative a player cannot move down a Rank (unless changed by NZB which will be rare). Thus a Grand Master remains a Grand Master eternally.

The calculation should be carried out on the 1<sup>st</sup> of each month.

##### Star calculation

On reaching an aggregate of 100 A + B Masterpoints, a Local Master who has not earned the threshold 50 A Points becomes a Local Master - 1 Star. At 150 Masterpoints the player becomes Local Master - 2 Star, with an additional Star for each additional 50 Masterpoints if the player has not attained sufficient A Points to move up a Rank. Similarly stars are awarded to masters of other ranks who have not attained sufficient threshold A points for promotion to a higher rank.

The calculation should be carried out on the 1<sup>st</sup> of each month.

### Rating point calculation

At the end of each year a player is assigned Rating Points (RP) as below:

$$\text{This year's RP} = \text{Round}(\text{Last\_year's RP} * \text{RATING\_FACTOR} + \text{this\_year's A points won} + \text{this\_year's B points} + \text{this\_year's C Points} / 100)$$

The RATING\_FACTOR is currently 80% but this needs to be a parameter held in a table to match each calculation period, currently annual.

The current system does not differentiate between B and C points: it treats them as one number like dollars and cents. The new system holds separate values allowing for flexibility in the future, but retaining the current 100C = 1B conversion.

The calculation should be carried out once a year, usually in January, and initiated manually (see Grade calculation).

### Grade calculation

Grade	Settings
<b>Junior</b>	Club Master or lower Rank and 30 or less Rating Points and less than 5A Points
<b>Intermediate</b>	Club Master or lower Rank and 30 or less Rating Points but 5 or more A Points or Club Master or lower Rank with more than 30 Rating Points or Local Master 0-4 Star and less than 100 Rating Points
<b>Open</b>	Local Master 0-4 Star and 100 or more Rating Points or Local Master 5 Star or more or Provincial Master or higher Rank

The calculation should be carried out once a year, usually in January, and initiated manually, and to be run immediately after the Rating Point calculation.

### Appendix 17.3 Segmentation and/or purging of old data

On upload of results for Masterpoints and data volumes, we are discontinuing the Access database and calculate data volumes to be small for a large SQL installation. We calculate about 500 characters per session assuming 40 players, excluding indexing and database overheads. We will need to introduce some kind of historic data purge or segmentation after a few years of operation. The database size consideration does concern the developers with regard to the ad hoc reporting facilities which will place heavy loads on the server(s).

### Appendix 17.4 Valid ASCII character set

Highlighted areas of the table define the character set allowed for input file names. The header line and subsequent results may contain any of the characters in the table below.

Code	Character	Code	Character	Code	Character	Code	Character	Code	Character
32	Space	51	3	70	F	89	Y	108	l
33	!	52	4	71	G	90	Z	109	m
34	"	53	5	72	H	91	[	110	n



35	#	54	6	73	I	92	\	111	o
36	\$	55	7	74	J	93	]	112	p
37	%	56	8	75	K	94	^	113	q
38	&	57	9	76	L	95	_	114	r
39	'	58	:	77	M	96	`	115	s
40	(	59	;	78	N	97	a	116	t
41	)	60	<	79	O	98	b	117	u
42	*	61	=	80	P	99	c	118	v
43	+	62	>	81	Q	100	d	119	w
44	,	63	?	82	R	101	e	120	x
45	-	64	@	83	S	102	f	121	y
46	.	65	A	84	T	103	g	122	z
47	/	66	B	85	U	104	h	123	{
48	0	67	C	86	V	105	i	124	
49	1	68	D	87	W	106	j	125	}
50	2	69	E	88	X	107	k	126	~

### Appendix 17.5 Levy calculation and invoicing

The levy periods are quarterly 1 Jan-31 Mar, 1 Apr – 30 Jun etc..

Invoices are to a club for each player on a daily pro-rated basis calculated at the end of each quarter. The levy invoice is in addition to the monthly Masterpoints invoice.

The sum levied is a parameter, currently \$20 annual plus GST, or \$5 a quarter.

Assuming a 360 day year (always) and a 90 day quarter (always), a player is levied by an invoice in arrears to their home club.

If the player has been a member continuously through the quarter than the levy is

$$90 / 360 * Levy = 90 / 360 * 20 = \$5 + GST$$

However if the player starts and/or leaves a club during the quarter the calculation is

$$Days\_difference((End\_date- 7 days)- Start\_date) / 360 * Levy$$

If the result is less than zero then the “charge” is set to zero. The objective of the extra 7 days is to provide a grace period and to remove any clerical accidents.

If someone joined a club on 17 Jan 2017 and departed on 25 March 2017 the levy applied is

$$((25 Mar - 7 days) - 17 Jan ) = 60 days / 360 * Levy = \$3.33$$

A player leaving a club and joining another would mean that two clubs were charged pro-rata in the quarter for parts of the player. In this calculation NZB “loses” two weeks of levy income, that being two seven-day grace periods.

At some stage in the future NZB will collect year of birth to automate an age-based levy process.

### Appendix 18 – Overview of other deliverables to clubs and players

There are three levels of users on the new website: those with universal powers, those with powers restricted to within one (or more) clubs and those accessible by day-to-day players. Some examples are on the table below.

Facility	NZB admin	Club admin	Player
<b>Personal details</b>	All	Edit all except grades, ranks and rating points	Edit email address, tel number, NZB subscriptions once registered and logged in
<b>Masterpoints</b>	All	View only, emergency manual upload facility	View only
<b>Club admin</b>	All	Manage static information about the club such as physical and postal address, telephone numbers, email addresses, officers etc. Supply up to three email addresses (which could be the same) for Secretary, Treasurer and Tournament business.	View only
<b>Add new player</b>	Yes	Can set grade/rank on new player, no edit rights later. Player number assigned by website (not from pre-supplied list)	No
<b>Create a tournament</b>	Yes	No	View only

<b>Edit a tournament</b>	Yes	A club may edit supporting information about a tournament such as <ul style="list-style-type: none"> <li>• Enter logo and information about a sponsor</li> <li>• Indicate start and approx. end time</li> <li>• Lunch, tea, coffee provided</li> <li>• Venue changes, parking info</li> <li>• Format details e.g. 8 rounds of 8 boards VP scoring</li> </ul>	View only
<b>Delete tournament</b>	Yes	No	N/A
<b>Manage tournament entries</b>	Yes	For tournaments belonging to a club	Enter/remove only
<b>Bill tournaments</b>	NZB events only	N/A	N/A
<b>Extract members to Excel</b>	Yes	Own club only	No
<b>Aggregate filter report *</b>	Yes	Yes	Yes
<b>Aggregate filter rich data Excel extract *</b>	Yes	Yes	Yes
<b>Detail results filter report *</b>	Yes	Yes	Yes
<b>Detail results filter rich data Excel extract *</b>	Yes	Yes	Yes
<b>Send email levy invoices to clubs</b>	Yes	N/A	N/A
<b>Send email Masterpoints invoices to clubs</b>	Yes	N/A	N/A
<b>My NZB edit</b>	Yes	No	Yes for subscriptions etc.
<b>Move player from one club to another</b>	Yes	Yes, either the sending or receiving club can initiate the process and all three parties will be automatically notified by email (if NZB has emails for all three). In addition the My NZB history of each player will hold a record of the move, and any other material changes such as to Grade, Rank, Family name, etc.	No
<b>Manual results load</b>	Yes	Yes but for a club only	No

- Multiple filter keys include date, date range, grade, rank, event, player(s), gender etc.. Summaries will be available on screen and richer data dumps supplied via Excel (CSV) file extracts. We expect the rich Excel filter reports to have extensive ad hoc use to many different groups of people and especially NZB to understand better the bridge playing patterns of the nation.

### FILTER RESULTS

Player Name	<input type="text"/>	Player Number	<input type="text"/>
Club	<input type="text" value="Select a Club"/>	Region	<input type="text" value="Select a Region"/>
Grade	<input type="text" value="Junior"/>	Rank	<input type="text" value="Select a Rank"/>
Date From	<input type="text" value="1 Nov 2016"/>	Date To	<input type="text" value="15 Dec 2016"/>

DATE	CLUB	EVENT	SESSION	PLACE	PLAYERS	MPTS	SCORE	APTS	B PTS	C PTS
3 Dec 16	Rotorua	Rotorua Christmas Pairs 2016	Final	20	Suellyn Caudwell, Rowan Friend	8B	54.41PCT		1	
3 Dec 16	Rotorua	Rotorua Christmas Pairs 2016	Final	24	Beverley Evans	8B	53.22PCT		1	
3 Dec 16	Rotorua	Rotorua Christmas Pairs 2016	Final	48	Juliette Ross, Patricia Ferguson	8B	47.92PCT			

- Every Excel dump will include a column for the last amendment to a record to function as the key to spot anomalies

- Over time the Excel dumps should crystallise the most common reporting requirements which may then be converted into standard reports available as website menu items, saving the user time and a struggle with Excel
- Any user can request Excel dumps of the filter report information
- At some stage in the future NZB may consider adding a database interrogation utility for developers but this is outside the scope of the current project

A person who acts as an administrator for more than one club will be required to manage separate login details for each entity.

## Appendix 19 – Revised Masterpoints (for info only)

### Overview

Parameters stored in tables and formulae drive the phases of Masterpoint award calculations. The calculations aim to match the spirit of current manually generated Masterpoint tables, but there are differences which occur in the interests of consistency. The longer term benefit is that NZB will be able to make material adjustments to the Masterpoints scheme more or less automatically, dependent on the nature of the change.

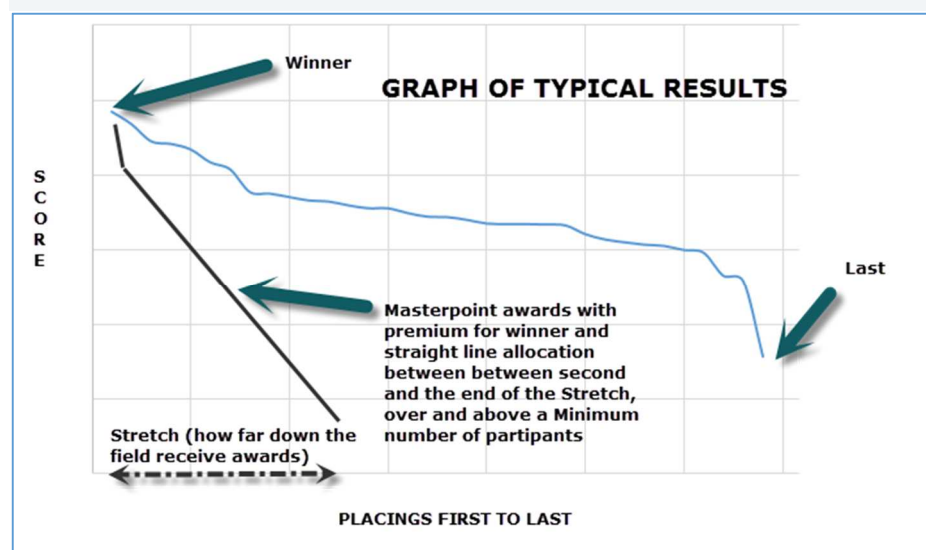
The values in the table below require NZB Board ratification. NZ Bridge Administrators require editing rights to the parameters and the ability to add records. The methods of awarding Masterpoints described later.

The Variables table below drives the various methods.

Show <input type="text"/> entries <span style="float: right;">Search:</span>											
Name	Points	Unit	Stretch	Premium	Multiplier	Min Entries	Min Boards	Match Factor	Match Unit	Calculation Type	C Point Stretch
<u>25A Pairs</u>	25	A	65%	1	6	20	96		A	Pairs/Individual	35%
<u>25A Teams/Swiss</u>	25	A	65%	1	5	20	96	0.02	A	Teams/Swiss	35%
<u>20A Pairs</u>	20	A	25%	1	5	20	96		A	Pairs/Individual	35%
<u>20A Teams/Swiss</u>	20	A	25%	1	4	20	96	0.02	A	Teams/Swiss	35%
<u>15A Pairs</u>	15	A	25%	1	4	20	96		A	Pairs/Individual	35%
<u>15A Teams/Swiss</u>	15	A	25%	1	3	20	96	0.02	A	Teams/Swiss	35%
<u>10A Pairs</u>	10	A	25%	1	3	20	72		A	Pairs/Individual	35%
<u>10A Teams/Swiss</u>	10	A	25%	1	2	20	72	0.02	A	Teams/Swiss	35%
<u>5A Pairs</u>	5	A	25%	1	2	12	60		A	Pairs/Individual	35%
<u>5A Teams/Swiss</u>	5	A	25%	1	1	12	60	0.02	A	Teams/Swiss	35%
<u>3A Pairs</u>	3	A	25%	1	2	12	44		A	Pairs/Individual	35%
<u>3A Teams/Swiss</u>	3	A	25%	1	1	12	44	0.02	A	Teams/Swiss	35%

<u>8B Pairs</u>	8	B	35%	1	2	10	44		C	Pairs/Individual	35%
<u>8B Teams/Swiss</u>	8	B	35%	1	1	10	44	2.00	C	Teams/Swiss	35%
<u>5B Pairs</u>	5	B	35%	1	1	8	44		C	Pairs/Individual	35%
<u>5B Teams/Swiss</u>	5	B	35%	1	1	8	44	2.00	C	Teams/Swiss	35%
<u>3B Pairs</u>	3	B	35%	1	1	6	44		C	Pairs/Individual	35%
<u>3B Teams/Swiss</u>	3	B	35%	1	1	6	44	2.00	C	Teams/Swiss	35%
<u>40C Pairs</u>	40	C	35%	1	1	3	20		C	Pairs/Individual	35%
<u>40C Teams/Swiss</u>	40	C	35%	1	1	3	20	2.00	C	Teams/Swiss	35%

Showing 1 to 20 of 20 entries Previous | Next



*All methods*

1. We use the term Session regardless of whether it is a round, round-of-16, stanza, match etc... Session 99 is a final ladder.
2. If it is a Final ladder 99 then it must be one list: if not cease processing and post an error report
3. The attached Excel model is an important tool to validate and test results.
4. Lookup up the nine or so parameters relating to an event from the table against the type of event (40C, 10A etc.).
5. Note the type of result (0 ...n) from an individual session or a Final (99 code).
6. About 95% of the results to be processed will be single session 40C club events.
7. Calculations should be carried out with maximum precision available prior to rounding as the final operation.
8. Note that A and B events may have a different Stretch for the calculation of C points accrued in each session

*Method 1 – Pairs*

1. Calculate the number of Players (if 1 List it is the number of Pairs in the list, if 2 Lists then count both).
2. If Players is equal to or greater than the Minimum Entries, proceed.
3. If it is 1 list, then the top pair receive the Maximum Award.
4. If it is 2 lists, then the top pair in each list receive the Maximum Award.
5. If there are ties (that is, 1=), then award Maximum Awards to every tied Pair
6. The Minimum Award is set at 0 until further notice

7. Calculate ROUGHLY how far down the field awards will carry as the number of players in each list (if there are 2 Lists) by multiplying the total number by the Stretch. So in a 40C round with ten Players \* 35% = awards to be made to place 3.5000, the "Rough\_Floor". However awards may be made below the floor as a result of rounding.
8. Then calculate the value of the Step (or increment) between placing in the session
9.  $\text{Step} = ((\text{Maximum Award} - \text{Premium}) - \text{Minimum Award}) / \text{Rough\_Floor}$
10.  $\text{Step} = ((40 - 1) - 0) / 3.5 = 11.1429$
11. For each Place where Place is greater than or equal to Rough\_Floor then
12. Greater of Minimum points or Points – ((Place -1) x Step)
13. Round down to 0 decimal places (so 14.1 and 14.9 both become 14).
14. For second place the calculation is MAXIMUM OF 0 or  $40 - ((2 - 1) * 11.1429) = 28.8571$
15. Rounded down = 28, or Minimum Award if that is greater.
16. For third place the calculation is MAXIMUM OF 0 or  $40 - ((3 - 1) * 11.1429) = 17.621$ , rounded down to 17.

#### *Method 1.1 Exceptions for Club Events (40C)*

1. A 40C Pairs event has one or more sessions and NOT a final (99)
2. If the Boards Played is greater than 20 then the Maximum Award stands (40C)
3. If the Boards Played is in the range 11-20 then the Maximum Award is halved, and becomes 20C
4. If the Boards Played is less than 11, then stop processing

#### *Method 1.2 Bonus A & B points for A & B Events*

Applies to Pairs events of 3B and above. In this method we award bonus Masterpoints for each session as below.

1. Execute the calculation as Method 1 for a 40C using the Stretch for a 40C pairs event (not the Stretch for the A or B point event concerned)
2. C Points are awarded regardless of the number of boards played
3. Look up the Multiplier: for example for a 10A this is 3
4. After the final rounding down, multiply the C point awards by the Multiplier
5. For example, in a 10A session the Multiplier is 3 so the session winner(s) receives  $40 \times 3 = 1B + 20C$  (120C).
6. 3rd place(s) receives  $17C \times 3 = 51C$ .
7. Each round winner, 1st or 1= receives an additional A point for A events or B point for B events. There is a slight "unfairness" where those playing in sections with a single ladder of results are only allocated 1 Bonus point for winning, whereas those with two lists accrue 2 Bonus points for each list.
8. Bonus Award(s) are made regardless of the number of boards played

#### *Method 2 – Swiss/Teams*

A Swiss or Teams event is made up of a number of sessions. Masterpoints are awarded on each session. Using the Number of Boards played in the session, the Match Factor, Multiplier and Match Unit the Masterpoint Award is calculated as

1. Points = Boards Played \* Match Factor \* Multiplier awarded in the Match Unit
2. Full points are awarded for a win
3. Half points are awarded for a draw
4. No points are awarded for a loss
5. A 40C Swiss/Teams event has one or more sessions and NOT a final (99)
6. A bye indicated by 0,0,0,0 opponents is awarded a win if the VP's are greater than 10, half a win if the score is 10 exactly, and no win if the score is less than 10

Two examples follow:

- A 40C Teams match with 10 boards played generates  $10 * 2 * 1 = 20C$  points for the winners, 10C points for a tie and no award for a Loss.
- A 25A Teams match with 10 boards played in a round generates  $10 * 0.02 * 6 = 1.2A$  for the winner, 0.6A for a draw and zero for a loss.

#### *Method 4 – Final ladders*

1. This applies to a set of results coded as 99 only
2. Do not process any finals for a Pairs C, Swiss C or Teams C point event.

3. Only A and B points are awarded (C points are not awarded).
4. If the Number of Boards Played is less than Minimum Boards, halve the award but round up (so 10A becomes 5A, 15A becomes 8A, etc.) Otherwise award full points, there is no minimum
5. Apply the same calculation as Method 1 but against the parameter settings for the event.

*Worked Masterpoint examples*

10 A Pairs with 20 pairs	Result	A pts	B pts	C pts
1 <sup>st</sup> round	1st	1A Bonus for 1 <sup>st</sup>		Multiplier=3 3 x 40 from C points table = 120 C
2 <sup>nd</sup> round	5th			3 x C points = 8 pts x 3 = 24 C points
3 <sup>rd</sup> round	Not so good			
Final	6 <sup>th</sup> overall	2A from the 10A points table		
Sub-totals		3A		144 C
Total		3A	1B	44 C

Example 2 8B Teams with 20 teams 8 boards a match 8 rounds	Result	A pts	B pts	C pts
	Win 5 rounds			Multiplier=2 C pts per board =2 8 boards x 2 x 2 = 32 C 5 wins x 32 = 160 C
	Draw 1 round			8 x 2 x 2 / 2 = 16 C
	Lost 2 rounds			-
Final	5 <sup>th</sup> overall		3B from table	
Sub-total			3B	176 C (1B + 76C)
Total			4B	76 C

**Appendix 20 – Example club invoices**

The details held about a club and maintained by the club will be used to send automatic invoices to clubs.

Masterpoints will move to a monthly in arrears cycle with the intention of minimising the effort of resolving discrepancies and helping clubs to smooth their cashflow. A tax invoice example is below: it will not be accompanied by paper records of each charge since the backup to the invoice is the standard online reports.

<b>Sample only</b>		<b>NZ Bridge</b>		
		PO Box 5242 Palmerston North 4441		
		Phone: 06 358 3449 Email: secretary@nzbridge.co.nz		
TO: Cambridge Bridge Club PO Box 132 Cambridge 3450		<b>Tax Invoice NZB2</b> Date: 15 December 2016 GST Number: 00-000-00		
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNITS</b>	<b>RATE</b>	<b>ITEM TOTAL</b>
C Masterpoints	Player session charges for November 2016	396	\$0.30	\$118.80
<a href="#">7 Nov 2016 CAMBRIAN LODGE MOTEL Swiss Pairs 1 @ 44 players</a> <a href="#">7 Nov 2016 CAMBRIAN LODGE MOTEL Swiss Pairs 2 @ 44 players</a> <a href="#">7 Nov 2016 CAMBRIAN LODGE MOTEL Swiss Pairs 3 @ 44 players</a> <a href="#">7 Nov 2016 CAMBRIAN LODGE MOTEL Swiss Pairs 4 @ 44 players</a> <a href="#">7 Nov 2016 CAMBRIAN LODGE MOTEL Swiss Pairs 5 @ 44 players</a> <a href="#">7 Nov 2016 CAMBRIAN LODGE MOTEL Swiss Pairs 6 @ 44 players</a> <a href="#">7 Nov 2016 CAMBRIAN LODGE MOTEL Swiss Pairs 7 @ 44 players</a> <a href="#">7 Nov 2016 CAMBRIAN LODGE MOTEL Swiss Pairs 8 @ 44 players</a> <a href="#">7 Nov 2016 CAMBRIAN LODGE MOTEL Swiss Pairs 9 @ 44 players</a>		<a href="#">Click on any item to see results and players</a>		
SUB TOTAL				\$118.80
GST				\$17.82
<b>TOTAL</b>				<b>\$136.62</b>

The levy invoice will continue to be quarterly in arrears. Clubs administrators will be able, online, to click through the invoice to see supporting detail to the charges.

Appendix 22 has examples of reports available on line which can be used to reconcile between the summary invoice as above and the detail (in place of the paper circulated in the current process).

PENDING: billing entity is always a club, or is there a requirement to invoice a region?

<b>NZ Bridge</b>				
		PO Box 5242 Palmerston North 4441		
		Phone: 06 358 3449 Email: secretary@nzbridge.co.nz		
TO: Auckland Bridge Club Inc		<b>Tax Invoice NZB3</b> Date: 11 January 2017 GST Number: 00-000-00		
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNITS</b>	<b>RATE</b>	<b>ITEM TOTAL</b>
Membership levies	Full membership levies for 1295 members for the quarter 01 October 2016 to 31 December 2016	1295	\$5.00	\$6475.00
Membership levies	Partial membership levies for 1 resigned members for the quarter 01 October 2016 to 31 December 2016	51	\$0.05	\$2.55
Membership levies	Partial membership levies for 1 new members for the quarter 01 October 2016 to 31 December 2016	29	\$0.05	\$1.45
<a href="#">Download membership file</a>				
SUB TOTAL				\$6479.00
GST				\$971.85
<b>TOTAL</b>				<b>\$7450.85</b>

Administrative users may click on any line item above to drill down into the blow-by-blow detail.

### Appendix 21 - Outline implementation plan

Once basic testing is complete we will run two website, namely the current live site and its associated processes as it operates today, and a test site. We expect NZB to provide significant resources to hand-holding clubs and assisting scoring suppliers in the exercise.

Day	Scope	Objective
-----	-------	-----------

<b>Zero</b>	One scoring system, one club	Sort out obvious teething issues on uploads
<b>+5</b>	As above	Test player downloads
<b>+10</b>	One scoring system, two clubs	
<b>+15</b>	Two scoring systems, 3 clubs	
<b>+20</b>	Three scoring systems, 4 clubs	
<b>+25</b>	Three scoring systems, 6 clubs	
<b>+90</b>	Turn off old system, publish revised Masterpoints manual.	

The plan should include:

- Documentation for club users
- “Public” feedback loop with all suppliers to maintain an even, constructive playing field
- Promotion and information programme with Regions and Club
- Bug fix process
- Pre-determined “go live” criteria
- Extra support for less computer-savvy clubs
- Create accurate register for all affiliated clubs or which scoring system and version they use, initially through scoring system suppliers

PENDING: strategy/approach for those clubs using scoring systems outside the three main suppliers

### Appendix 21.1 – One-time Microsoft Access player extract

We anticipate about 15,000 player records in the extract: only active current NZ and AU players are required. The order of the output file should be Computer number ascending and be in CSV/Excel format.

The table below shows the columns expected, two sample columns of information and a small commentary on each column. The top line should include the column names as in the table below as these labels are used to key the information for upload.

Column	Example 1	Example 2	Comment
<b>computer_number</b>	1205	1214	NZ computer number, integer 4 or 5 digits, no spaces, leading zeroes, padding etc.
<b>first_name</b>	Chris	Ann-Maree	Free text 30 characters, using Microsoft “PROPER” along the lines of StrConv(Target String, Conversion Type)
<b>surname</b>	Marshall	Fox	Ditto
<b>current_stars</b>	0	1	Integer from Masterpoints latest known value
<b>current_rating_points</b>	3	68	Ditto
<b>total_a_points</b>	121	86.47	Ditto but to 2 decimal places
<b>total_b_points</b>	186	134	Ditto but integer
<b>total_c_points</b>	78	30	Ditto but integer
<b>club_id</b>	130	622	Integer current Home club. Lookup to club table App 2 (no match = 9999). i.e. 130=Howick
<b>gender</b>	2	1	Lookup to Gender table see App 2 (no match = 99)
<b>country_code</b>	1	1	Integer. If Home club is a NZ club (not club ID 819 nor 820) then set the Country code to 1 for NZ. If 820 set to 2 for Australia. If 819 set to 3. If no idea then 99.
<b>overseas_number</b>			Integer, If Australian bridge number available then insert here (also for NZ players, about 500 of these in total)
<b>date_joined</b>	2014-10-09		Earliest date known for player (could be over many different clubs not just current club), format yyyy-mm-dd
<b>status</b>	1	1	Force to 1
<b>last_update</b>	2017-01-04	2017-01-04	Date of running the this extract routine format yyyy-mm-dd



<b>preferred_name</b>			Blank
<b>source</b>	99	99	Force to 99
<b>member_rank</b>	6	5	Integer, lookup to rank table App 2 (no match=99), note duplicates in values in Access dataset on No Rank/Novice and Cert of Prof/Junior Master which translate to single codes
<b>member_grade</b>	3	3	Integer, lookup to grade table see App 2 (no match=99)
<b>member_handicap</b>	0	0	Force to 0, not used initially

## Appendix 22 – Player reports examples

Various on screen reports can filter on a sort information on key items such as Computer number, Player name, Date range, Club, Region, Event name, Grade and Rank. Basic output is available on screen and a more detailed dump may be made to Excel CSV files.

NAME		ANDREW FUNK							
<b>HOME CLUB</b>	Auckland								
<b>REGION</b>	Auckland Northland								
<b>NUMBER</b>	12356								
<b>STATUS</b>	Active								
<b>DATE</b>	Rank	Stars	Grade	Rating	Count	A	B	C	
<b>THIS YEAR</b>	National Master	-	Open	221	81	69.14	56	54	
<b>2015</b>	Master	-	Open	180	104	40.61	35	81	
<b>2014</b>	Local Master	-	Intermediate	11	53	10.64	33	48	
<b>2013</b>	Club Master		Junior	4	97	-	7	6	
<b>2012</b>	Club Master		Junior	-	82	-	5	33	
<b>2011</b>	Novice		Junior	-	70	-	-	40	
	TOTAL					109.8	92	35	
<b>1-JAN-16</b>	National Master								
<b>1-MAY-15</b>	Provincial Master 1 Star								
<b>1-JAN-15</b>	Provincial Master								
<b>1-JUL-14</b>	Local Master								
<b>3-FEB-13</b>	Moved Wellington => Auckland								

This display is available to all players and is also part of the My NZB page. This is an example screen where the filter is set for Andrew Funk with a default to the previous 30 days of activity. On the display users can click through to items such as the Location (usually the Club), the Event (to see the full list of results), and on other player names.

DATE	LOCAT	EVENT	SESSI	PLA	PLAYERS	MP	SCO	UN	A	B	C
<b>17-</b>	Howic	West End Foods	1	1	Sarah South, Andrew Funk	40C	60.0	PC			4
<b>2-JUL-</b>	Auckla	Ryman Heath	1	1	Andrew Funk, Steve Blot	5B	4.54	VP			3
<b>2-JUL-</b>	Auckla	Ryman Heath	2	1	Andrew Funk, Steve Blot	5B	12.7	VP			3
<b>2-JUL-</b>	Auckla	Ryman Heath	3	1=	Andrew Funk, Steve Blot	5B	10.0	VP			1
<b>2-JUL-</b>	Auckla	Ryman Heath	4	1	Andrew Funk, Steve Blot	5B	13.8	VP			3
<b>2-JUL-</b>	Auckla	Ryman Heath	5	1	Andrew Funk, Steve Blot	5B	17.4	VP			3
<b>2-JUL-</b>	Auckla	Ryman Heath	F	7	Andrew Funk, Steve Blot	5B	58.4	VP			1
<b>15-</b>	Hamilt	Regional Open	1	1	Andrew Funk, Steve Blot, Andy Blot,	10	12.7	VP	0.		
<b>15-</b>	Hamilt	Regional Open	2	2	Andrew Funk, Steve Blot, Andy Blot,	10	4.66	VP			
<b>15-</b>	Hamilt	Regional Open	3	1	Andrew Funk, Steve Blot, Andy Blot,	10	11.5	VP	0.		
<b>15-</b>	Hamilt	Regional Open	4	1	Andrew Funk, Steve Blot, Andy Blot,	10	14.3	VP	0.		
<b>15-</b>	Hamilt	Regional Open	5	1	Andrew Funk, Steve Blot, Andy Blot,	10	12.7	VP	0.		
<b>15-</b>	Hamilt	Regional Open	6	1=	Andrew Funk, Steve Blot, Andy Blot,	10	10.0	VP	0.		

15-	Hamilt	Regional Open	7	2	Andrew Funk, Steve Blot, Andy Blot,	10	8.32	VP		
15-	Hamilt	Regional Open	F	5	Andrew Funk, Steve Blot, Andy Blot,	10	74.2	VP	2.	
19-	Duned	Pairs Winter	1	3	Andrew Funk, Ann Smith	5A	56.0	PC		4
19-	Duned	Pairs Winter	2	7	Andrew Funk, Ann Smith	5A	53.0	PC		6
19-	Duned	Pairs Winter	3	1	Andrew Funk, Ann Smith	5A	61.2	PC	1	8
19-	Duned	Pairs Winter	F	4	Andrew Funk, Ann Smith	5A	169.	PC	2	

A group summary report example is below. The column “Count” is the number of session played for the person in the period selected and can be used, along with the club filter, to assist invoice reconciliation. Final ladders of C point events (for example Spring Pairs played over four sessions) are not included in the Count and therefore not chargeable in the invoices. NZB wishes to collect such information in order to recognise achievements at all levels in the game (rather than solely the current focus of super-start achievers).

NAME	NUMBER	CLUB	REGION	RANK	STARS	GRADE	RATING	COUNT	A	B	C
ANDREW FUNK	12561	Auckland	Auckland Northland	National Master	-	Open	221	62	69.14	56	54
JULIA ROBERTS	36744	Dunedin	Otago Southland	Grand Master	2	Open	1512	11	871.97	695	12
PAUL SANG	1610	Christchurch	Canterbury	Novice	-	Junior	180	4	-	2	81
FREDA TURTLE	78123	Overseas	Overseas	Local Master	1	Intermediate	11	9	10.64	33	48

### Version control

Date	Commentary
11 Sep 2016	Version 1
20 Sep 2016	Version 2
11 Oct 2016	<ul style="list-style-type: none"> <li>• Masterpoints calculations clarified</li> <li>• In header line of each results file added the short name and version number of each contributing system making uploads</li> <li>• Added Appendix 17.2 for information on the calculation of Rating Points</li> <li>• “Preferred name” as well as “Full name” e.g. Bob versus Robert</li> <li>• nzb_master_player.txt will be available in the same directory as used for the uploading of results via the FTP mechanism</li> <li>• Date stamp on player records not set on changes to A B or C Masterpoint changes</li> </ul>
11 Nov 2016	<ul style="list-style-type: none"> <li>• Nothing outside the ASCII character range of 32-126 should be used. Double quotes = 34, Single quotes or apostrophe = 39 and Comma = 44:see App 17.4</li> <li>• Added data purge/segmentation requirement after a few years of operation (App 17.3)</li> <li>• Refined Masterpoints calculations in Appendix 19</li> </ul>
21 Nov 2016	<ul style="list-style-type: none"> <li>• Some appendices’ numbering issues resolved</li> <li>• Masterpoint calculation revisions</li> <li>• Clarification that a Teams final ladder may contain 4-6 players but individual rounds only 4 players (Appendices 9 and 10)</li> <li>• Results file format: Masterpoints type valid values for A, B and C events clarified</li> <li>• Exchange of player information from NZB to scoring system, repletion of field and field order amended, and Handicap field added but not yet used</li> <li>• Added example club invoices Appendix 21</li> <li>• Added report examples Appendix 22</li> </ul>
22 Nov 2016	<ul style="list-style-type: none"> <li>• Added examples for player information exchange files and format, legible and encoded, added Stars to the file</li> <li>• Results file format, switched order of Type and Event to match example, and added more details both legible and encoded to the examples</li> <li>• Temporary FTP test site credentials supplied (will change when we go live)</li> <li>• Formalised player country, gender, grade, rank and status codes in Appendix 2</li> <li>• Removed underscores from SYS_ID_VER to minimise confusion on valid character sets</li> </ul>
25 Nov	<ul style="list-style-type: none"> <li>• Appendix 19 Masterpoint variables table updated (twice)</li> <li>• Enlarged Appendix 17.2 for Grade, Rank and Star calculations in addition to Rating Points</li> <li>• The personal field Title (Mr, Ms etc.) not required [to be removed from My NZB page, not previously mentioned in spec]</li> <li>• Added destination environment description LAMP stack</li> </ul>

9 Dec	<ul style="list-style-type: none"> <li>• Amended invoice example to state that clubs can drill down into an invoice online to see the detail</li> <li>• No leading zeroes or space(s) or while space on player computer numbers (several places)</li> <li>• 9999 No club added the club list in Appendix 1 to assist in data loading where there are many thousands of absent players i.e. no longer a member of an affiliated NZ clubs, who may or may not return at some date in the future, as well as 819=Overseas and 820=Australia</li> <li>• Changed Beginner rank description to Novice (also Junior Master should be amended to Cert of Prof)</li> <li>• Added example of manual results entry and improved description</li> <li>• Input of new players, set gender codes to match App 2.</li> <li>• Added Player Source Code table to App 2, and Region codes/Descriptions</li> <li>• In Player record changed "Origin" to Country</li> <li>• Appendix 17.1 Weighted Averages However if an event has its own special rules, perhaps about carry-overs, then these rules would over-ride the formula suggested.</li> </ul>
2 Jan 2017	<ul style="list-style-type: none"> <li>• Clarified that 12VP "award" in App 9 for Teams that a bye can be entered with any number of VP's in the range 0-20. Masterpoints are accrued as in a normal match</li> <li>• Added App 17.5 on Levy calculation and invoicing</li> <li>• Added contact details in Circulation at top of document</li> <li>• Incorporated one time Microsoft Access database player extract routine new App 21.1</li> <li>• Results file format: amended spec to say that "empty" files for deleting a batch still require the descriptor line to help distinguish between possible FTP errors and genuine requests for deletion</li> </ul>

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