AGB Software Submission Requirements

Section 1. The Software Submission Process

All software submissions to Nintendo of America Inc. must be forwarded to the attention of NOA Product Testing Supervisor. Otherwise, the submission's placement into the testing queue may be delayed. To help reduce a submission's turn-around time, it is suggested that licensees assign a primary contact person for each software submission. All communications with NOA concerning a submission's testing status should be forwarded through this individual. The contact person should also be responsible for notifying any other interested parties.

When a submission is approved, your company's primary contact will be notified by NOA Licensing Department in writing.

When a submission is not approved, NOA may send a file in MPEG format illustrating the programming problem(s) which prevent(s) the submission from being approved. This is intended to assist the licensee in analyzing the cause of the software problem. It is the licensee's responsibility to send a copy of this file to any developer(s) of the software. NOA strongly encourages that copies be sent to the software developer(s) as quickly as possible.

Software submissions should be sent to the following address:

Nintendo of America Inc.

Attn: Engineering, Product Testing Supervisor

4820 150th Avenue NE Redmond, WA 98052

Phone: (425) 861-2819 Fax: (425) 861-2845

Section 2. Items Required for Submissions

The following items must be submitted with each Game Boy Advance software submission.

2.1 ROM Data

When submitting ROM data, prepare 1 set of CD-R disks, or FTP the file directly to NOA Product Testing (Lotcheck) group.

(Note) With a CD-R disk, make sure it is a format that can be read with Windows95/98.

(Note) For details see, Section 4. Saving Data to a Disk (page 9) .

(Note) To gain access to NOA Lotcheck's FTP, please E-mail Lotcheck@noa.nintendo.com. (Note) A note regarding software that supports AGB communication. If the link communication is only accessible after completing one hour or more of gameplay, provide a back-up data file with your submission to allow quick access to this option.

2.2 AGB Game Pak Specification Sheet

The most recent version is Form 2000-01.

Refer to the following pages when completing this form.

2.3 Instruction Manual

If an official version of the User's Manual is not completed, please provide a simplified version which contains Controller Functions and Save procedures for the game.

1

2.4 Software Destination Declaration

Please fill out the <u>Software Destination Declaration/Checklist</u> (SDD) completely and accurately. This form is available at http://www.noa-engineering.com. The document is necessary to ensure the software is distributed to the proper department/person.

2.5 ESRB Rating Certificate

Nintendo must receive a copy of the ESRB rating cerficiate prior to testing any Lot Check submissions. If you have not yet received the certificate from the ESRB, please send us a copy of the video tape you submitted to the ESRB. In this event, please send the certificate upon receipt from the ESRB.

Note: Nintendo will only approve products which are rated by the ESRB and do not receive an Adult Only (AO) rating.

Note: If you have not yet received the certificate from the ESRB, please send us a copy of the video tape you submitted to the ESRB. In this event, please send the certificate upon receipt from the ESRB.

Section 3. Completing the AGB Software Specification Sheet

Please complete the following items on the AGB Software Specification Sheet.

For your convenience, this sheet is included at the end of this document in an "Online" format, which includes standard Word "Help" functions. If you choose this format, please complete your entries online, print the form, and send it along with your game submission. Please don't forget to print out the SDD/Checklist, fill in your entries, and include it as well.

As an alternative, this document and forms are also included in PDF format. If you choose this format, please print out the forms and fill them out by hand.

3.1 Game Title

Print the name of your game.

3.2 Game Code

Print the Game Code provided to you by Nintendo of America Inc.

(Note) If you have not received a Game Code, you may request this by E-mailing Lotcheck@noa.nintendo.com. Please include the following information:

Game Title

Publisher

"AGB"

ROM Size

Back-up Memory Type/Size

Accessories used (if any)

Any markets where game is planned to be released (Game Code if previously assigned)

3.3 Language

Indicate the primary language used for messages in the game.

3.4 Support for AGB Game Link Cable

(If the communication cable is supported, please attach a document which includes the game specifications and a detailed explanation of the communication functions used.)

Following the example below, check if Multi-Game Pak mode is supported(*1), if Single Game Pak mode is supported(*2), number of players supported, etc.

Example:

This is a car racing game. If two people have the same game two people can play, if three people have the same game three can play, and if four have the same game four can play. If only one person has a Game Pak, up to three people can play a special course(one level) which is not in the normal modes. Additionally, in this Single Game Pak Mode if the software is inserted in the slave, you can load your custom made car and race on this special course against others' customized cars. (If no software is inserted in the slave, you can only select the default car)."

Using the above example the form would be completed as follows:

	Multi Game ^{*1} Pak Support	□N	XΥ	□ 2 □ 3 □ 4 Player Suppo □ Same Game □ Other Game (Title:					
	Single Game ^{*2} Pak Support			№ 2 № 3 ☐ 4 F	Player Su	pport			
Supports AGB Game				Number of Game Paks Supported					
Link Cable		Пи	X Y	Same Game Other Game (Title:)			
				Difference in game with number of Game Paks(*3)	Z	⊠Y			
	If you answered "Y' a difference in spec and Single Game F	ΠZ	×						

- Multi-Game Pak Support: This game supports Multi Game Paks so check "Y".

Players Supported: From 2 to 4 players can play so check 2, 3, and 4.

Supported Games: Only communication between the same game is supported so check "Same Game".

(If the game can be connected with another game title, please check "Other Game" and specify the game title.)

- Single Game Pak Support: This game supports 1 Game Pak so check "Y".

Players Supported: From 2 to 3 players can play so check 2 and 3.

Number of Game Paks Can Use: Possible to load saved data from a maximum of 3 peoples'

Game Paks. so check 1, 2, and 3.

Supported Games: Only communication between the same game title is supported so check "Same Game".

(If the game can be connected with another game title, please check "Other Game" and specify the game title.)

-Difference in specifications with different number of Game Paks: In this game, the difference is that if you have a Game Pak you can load saved data so check "Y".

- -Difference between Multi-Game Pak and Single Game Pak: In this game, there is a difference in the courses and number of players supported for both game modes so check "Y".
- <*1> Multi-Game Pak Support: Specifications call for a Game Pak to be inserted for all AGBs connected by the communication cable.
- <*2> Single Game Pak Support: Specifications allow for game play with a fewer number of Game Paks than there are AGBs attached with the AGB Link cable. (A game supporting Single Game Pak Mode has specifications which call for the game program being downloaded from the master Game Pak and executed, even if multiple Game Paks are supported.)

3.5 Support for Infrared Communication

Indicate if AGB infrared communication is supported.

If it is supported([Y]), designate the name of the game with which communication can be performed (if it is not the same game).

(Note) If the IR Communication is only accessible after completing one hour or more of gameplay, provide a back-up data file with your submission to allow quick access to this option.

3.6 Support of Other Peripheral Devices

If other peripheral devices are supported, indicate this.

3.7 Overseas Version

If this game has been released overseas or if it is planned to be released overseas, indicate the Game Title and Game Code. Insert the intended Market Code (USA/JPN) in the parenthesis.

3.8 Contact

Provide the contact information of the representative from your company that Nintendo of America Inc. should contact with questions or comments about a game. Please include all information including phone number and E-mail address.

3.9 Submission Date/Method

Indicate the submission date and method of submission (FTP or CD-R via Shipping).

3.10 Launch Date

Provide the scheduled release date for the game if available.

3.11 Memory Configuration

Indicate the memory configuration of the game.

- ROM

Indicate the ROM size.

- Backup Memory

Indicate if there is backup memory in the Game Pak.

If there is backup memory ([Y]), indicate the size and type.

If SRAM is used, indicate if there is a battery.

- Support Levels for Program to Avoid Loss of Backup Data

When a hot plug-in is performed (Game Pak inserted during game play with power ON), the AGB-CPU will lock up and backup data may be lost. A program should be created in order to prevent the backup data from being lost.

If a Battery is required, please indicate which level (1-4) of data protection method was used. For more information, refer to the AGB Programming Caution, "Cautions when Using SRAM".

- Backup Library Version

Indicate the version number written at the start of the header file for the Backup library being used (ie. Ver. 1.0.0).

There are two header files for SRAM. SRAM.h is for Normal Speed and SRAMFAST.h is for Fast access. Please specify which library is used.

3.12 ROM Version

- Mask ROM Version

Indicate "0" if submitting the first version of the game (ie. the game has never been produced).

Indicate the next higher number for each revised version after starting production (1, 2, 3....).

- Submission ROM

Indicate "0" for the first submission. Indicate the next higher number each time the game is submitted to NOA Lotcheck, without updating the Mask ROM version.

Example

Version	First	Second	Third	-	Fourth	Fifth	
Mask ROM Version	0	0	0	Change after first production	1	1	
EEPROM Version	0	1	2		0	1	
Version on Title Label of EEPROM	0.0	0.1	0.2		1.0	1.1	

Sixth Seventh Change after 2 2 second production 0 1

2.0 2.1

Second Production

3.13 Game Title

Indicate the Game Title registered in each designated address in the Master ROM, along with the Game Code.

First Production

Refer to Section 5. Character Code List for Game Title Registration (page 10) and Section 6. ROM Registration Data Specifications (page 11), for information on codes that can be used with Game Titles.

(Note) Use 20h for spaces within the Game Title. 00h may be used to fill unused portions following the Game Title.

3.14 ROM Registration Data

Indicate content registered in each designated address of the Master ROM.

For detailed information on ROM registration data, refer to Section 6. ROM Registration Data Specifications (page 11),

In the parenthesis in the data column, enter ASCII characters (alphanumeric).

3.15 File Name and CRC

- File Name

Check either CD-R or FTP, and indicate the file name.

Use the following format for file names.

(Note) For more details, refer to Section 4. Saving Data to a Disk (page 9).



- CRC

Calculate CRC using the AGB CRC Check Utility software provided by Nintendo of America Inc.

(Note) Download the AGB CRC Check Utility software from our web site, http://www.noa-engineering.com.

3.16 Programming Features

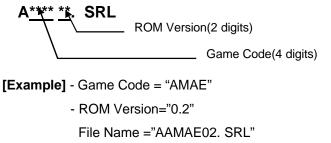
Special Programmiing

For copy protection indicate if special programming has been done.

If special programming for copy protection is in use, include an explanation of its content in the "Remarks".

Section 4. Saving Data to a Disk

- 1. For media, use a CD-R (or FTP).
- For the data format, use binary/uncompressed. Ensure Master ROM size equals the Mask ROM size ordered.
- 3. Write the file name in the following format.



4. Indicate the following information on the CD-R.

Company name/Game Title/Game Code/File Name/CRC/Date

(Note) To prevent labels from coming off in the CD drive with CD-R, use CD labels, or write directly on the CD-R.

Also, when sending please insert in a CD jewel case.

[Example of a Label for CD]

Company Name: Nintendo of America Inc.

Game Title: Mario Advance

Game Code: AGB - P - AMAE (USA)

File Name: AAMAE00. SRL

CRC: ABCDH Date: 12/25/2001

Section 5. Character Code List for Game Title Registration

	00	10	20	30	40	50	60	70	80	1	F0
0			SP	0	@	Р					
1			!	1	Α	Q					
2				2	В	R					
3			#	3	С	S					
4			\$	4	D	Т					
5			%	5	Е	U					
6			&	6	F	٧					
7				7	G	W					
8			(8	Н	Х					
9)	9	1	Υ					
Α			*	:	J	Z					
В			+	;	K]					
С			,	<	L	¥					
D			•	=	М]					
Е				^	Ν	^					
F			1	?	0	1					

Note 1: Do not use characters in shaded areas for Game Boy Advance titles.

Note 2: Use 20H (SP) for spaces within the Game Title. Note 3: Use 00H for unused areas after the Game Title.

Example: If ASCII character is "A", ASCII code is "41".

Section 6. ROM Registration Data Specifications

For the Game Boy Advance program, set information for Game Title, Game Pak specifications, etc. in designated addresses in the ROM.

The registration data addresses are 32 bytes located in the CPU memory from **80000A0H-80000BFH.**

Record the ROM registration data in the format described below.

[Caution]

The data in the following addresses need to remain fixed, regardless of the Game Title or Game Code.

Address 80000B2H 96H Address 80000B5H-80000BBH 00H Address 80000BEH-80000BFH 00H

6.1 Game Title (80000AOH-80000ABH)

Store the Game Title with ASCII Code 20H-5FH and 00H.

Do not use katakana or lower case letters.

Use 20H for blank spaces within the Game Title, and 00H for unused portions after the Game Title.

For information on characters that can be used refer to <u>Section 5. Character Code List for Game Title Registration (page 10)</u>.

The Game Title saved here is not the development name. Use a name that clearly identifies the actual product name.

[Example]

	Game Title	N	1	A	4	F	₹		l)		
80000A0H	Code/Hex	4	D	4	1	5	2	4	9	4	F	2	0
80000ABH	Game C Title C		C A		R		Т						
	Code/Hex	4	3	4	1	5	2	5	4	0	0	0	0

6.2 Game Code (80000ACH-80000AFH)

Register the four digit Game Code, established for the game, in ASCII code (English characters should be capitalized).

[Example]

If the Game Code is "AMAE":

Data Name	Address	Data*
	80000ACH	<u>41</u> H('A')
Game Code	80000ADH	<u>4D</u> H('M')
Gaine Code	80000AEH	<u>41</u> H('A')
	80000AFH	<u>45</u> H('E')

6.3 Maker Code (80000BOH, 80000B1H)

Save this in ASCII code (English characters must be capitalized) using the 2 digit code assigned by Nintendo of America Inc. when contracts were completed.

[Example]

If the Maker Code is "01":

Data Name	Address	Data*
Maker Code	80000B0H	<u>30</u> H('0')
Iviakei Code	80000B1H	<u>31</u> H('1')

6.4 Main Unit Code (80000B3H)

Save the code of the main unit to be used with this product's game program.

Address 80000B3H	Main Unit
00H	Game Boy Advance

(Note) Currently, no data other than 00H is used.

6.5 Device Type (80000B4H)

Save the code for the device type used with the Game Pak.

Address 80000B4H	Device Type
00H	Normal

(Note) Currently, no data other than 00H is used.

6.6 Mask ROM Version Number (80000BCH)

Save the Mask ROM version number for the produced product.

Update if the Mask ROM program has been revised.

[Example]

```
If submission ROM version is 0.0, 0.1, 0.2... → Data "00H"

" " 1.0, 1.1, 1.2... → Data "01H"
```

6.7 Complement Check (80000BDH)

Add 19H to the sum of all the data in Addresses 80000A0H-80000BCH, and save 2's complement. (80000A0H)+(80000A1H)+(80000A2H)+...+(80000BCH)+19H+(80000BDH)=00H Complement

6.8 Reserved Area

The data stored in the Reserved Area is unrelated to the game. Store the fixed values listed below.

Address 80000B2H = 96H Address 80000B5H ~ 80000BBH = 00H Address 80000BEH ~ 80000BFH = 00H

AGB Software Specification Sheet Version 2000-01 (2/23/01)

Game Title										_	ROM Versi	on									
Game Code	е	AGE	3-P-		(USA	١)					Mask ROM] 1 🔲	2	3 [] 4 🗌]			
Language			nglis	h 🗌 Japa	nese [Oth	ner ()		Submission F	RON	/ D C]1 🔲	2 🗌	3]4 🗌	5			
		Mult Pak	ti Gar	-	. _	\sim	☐ 2 ☐ 3 ☐ 4 PI	ayer Sup	port		ROM Regis										
P E			port *	_{'1}	¹ □		☐ Same Game ☐ Other Game (Title	e:)				ame itle								
R	•						□2 □3 □4 Pl	ayer Sup	port		H0A00008	Co	de/Hex								
I P		Single				Number of Game Paks Supported	□1 [□3 [] 2		to 80000ABH		ame				I	l				
H Support E Game L		Game Pak			☐ Same Game			-	de/Hex												
Cable A L			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_		,	☐ Other Game (Title:) Difference in game with number of ☐N ☐Y Game Paks		l	* For software The code for a							Same T	itle Regist	ation or	page 10.	
D E		If you answered "Y" to both *1 and *2 above, is there		□Y		Data Name		Address	Data*		Data	a Name	Ad	ldress	Data	a*					
V				d Single G				□N	ш'				80000ACH		l (' ')	Devi	се Туре	8	0000B4H		_H
Support Infrared				Same							Game Code		80000ADH		l (' ')		erved	8	0000B5H to	00Н	
	ınication	N	Υ	☐ Other	Game (Title:)				80000AEH	H	l (' ')	Area		8	0000BBH		
Support Periphe	ts Other eral	N	Y	Device Na	ame (Tit	le:)				80000AFH		ł (' ')	Mas Vers	k ROM sion	80	0000BCH		_H
Devices Overseas V		Game Title:						Maker Code		80000B0H 80000B1H		l (' ') l (' ')	Con Che	nplement ck	80	0000BDH	_	_H			
(Or planned		N	Y Game Code: AGB-P ()					Fixed Value*		80000B2H	96H		Pos	erved	8	0000BEH					
C Compar	ny/Dept.							Main Unit Cod	е	80000B3		ł	Area		8	to 0000BFH	00H				
N Name							E-mail:			-	* Insert ASCII	char	acters in pare	enthesis (' '). Alwa	ays use	e 96H for	80000	B2H.		
A Address	S	Line	_							File Name and CRC											
C		Line Tel:	2: _				ax:			Ī											
1			/	1.4	ethod of		ax.				Disk File Name	I A	J CD-K	SRL							
Submission	Date				ubmissic		☐ Mail ☐ FTP			ŀ	CRC — H										
Launch Date		/	/								Programm	ing	Features								
Laurich Dau	.e	MM	/DD/	YYYY							Special Programming for Copy Protection										
connec	cted.		·				me Pak inserted in ea														
	Paks than t					- 30	, .,		-												
Memory	Configu	ratio	n								Remarks										
ROM		Size		Bits						ſ								\neg	Ninter	ndo/Rece	eived
						EEPR	OM														
Backup Mer	mory			Bi	is D	SRAM	Backup Battery]Not Req	quired												
Specification		□ N	Y			gram	to avoid loss of SRA											1 L			
		N	Υ				Memory												D.C.N. AG	B-06-00	20-001A
				Backup Library	Versic		 □ Fast (Only if SRA	M is che	cked)												



Software Destination Declaration/Checklist

Fax to: NOA Lot Check (425)-861-2845

Please fill out completely

					Da	te:
A version of	Software title	has	s been sent to Nii	ntendo of Ame	erica Inc. 1	he software was
developed by	Developer	for _	Publisher	<u> </u>		
This software is to software should no expressly marked by	t be distributed					
Purpose of Subm	ission:					
Method of submis	ssion: CD	-ROM/Flop	py Disk or	FTP	to	folder
Departments which					Co.	Name
Departments: Mario Club		_	Nintendo Po	ower	Produc	t Acquisition
Lot Check		_	NOA Licens	ing		
Individuals:						
PROGRAM INFOR	RMATION:					
Game Boy	DMG/CGI	3-Dual	CGB Only	AGB _	N64	NUSG
PROGRAM SIZE (in Mbits):					
EEPROM, SRAM,	FLASH RAM	YES	NO	SIZE:		
RUMBLE PAK:		YES	NO			
CONTROLLER PA	K:	YES	NO			
# of Notes	# of Pages	Note N	lame(s):			
EXPANSION PAK	(RAM): YES	١	10			
Other features (IR	communication,	password,	etc.):			

Includ	e the following information/ma	terials with each version	:
S	Software Specification Sheet (for I	_ot Check) or	Checksum value (for others)
	ROM Image File (submit via FTP, after receipt of game into our syste		oppy disk). All disks will be destroyed
C	Copy of ESRB Rating Certificate of	or VHS Tape sent to ESRB	(1st submission to Lot Check only).
F	Print out of screen text (first subm	ission to Lot Check only).	
	Copy of Instruction Manual or Gar special features are utilized. (first s	•	•
Sende	r or Contact Person	Phone	 Fax or E-mail