

FRONT LINES PACKAGE (V.2)

EDITING NOTES TO CAMPAIGN MAKERS AND PROGRAMMERS*****

This utility allows the player to select one out of the 21 pre-defined front lines in EAW in single missions.

It is a fixed version of the utility I previously released. As a matter of fact, every frntline.dat file is provided with a airfield.dat file which activates the allied bases located in Belgium, Holland and Germany.

The files have to be dropped in the EAW main directory, directly or, better, using the nice Mane_Raptor's Frontline Mover utility (V. 2 or higher version).

The data that code for the front lines and airfields in EAW are contained in FRNTLINE.DAT and AIRFIELD.DAT, respectively, which can be extracted from DATA.CDF with the Paolo Morais'CDF extractor.

OVERALL STRUCTURE OF FRNTLINE.DAT

(note : byte numbering is in the decimal system):

The file is 12,000 bytes long and consists of 20 blocks of 600 bytes each.

Each block contains the data of a particular front line :

- block #1 : default front line used in the static 40 and 43 campaigns, as well as in the beginning of the 44 campaign.
- blocks #2-20 : 19 front lines used in the dynamic 44-45 campaign from Normandy Front to Eastern Germany.

STRUCTURE OF A BLOCK :

Each block consists of 9-27 patterns, each coding for the coordinates of one point of the front line :

The first pattern codes for the down or right end point of the front line.

The last pattern codes for the upper or left end point of the front line.

A total of 29 patterns (points) are possible for one front line.

Structure of a pattern (20 bytes) :

bytes 0-7 : coordinates of a point. These data are coded (code unknown at the moment).

byte 7 : E9 to E4. Always E4 for the last pattern of a block. First pattern : E7 in blocks #1-6 and E9 in blocks #7-20

bytes 8-15 : always FF FF FF FF FF FF FF FF

byte 16 : either 00 or 01. This byte determines whether the point is connected to the following one with a blue (or red) line on the mission maps. 00 : no line; 01 : line. (Points located in the sea have byte 16= 00)

bytes 17-19 : always 00

End of a block : a repeat of sixteen bytes set to FF.

The structure of a block can be edited to create new front lines, combining yet-existing point coordinates or creating new ones.

I put together data from blocks #1 and #13 to create a front line which corresponds to the boundaries of France (Fl_France.zip).

The FRNTLINE.DAT files included in this package consist of only one block repeated 20 times and are designed for static campaigns or single missions.

OVERALL STRUCTURE OF AIRFIELD.DAT

The file consists of 162 chunks of 44 bytes that correspond to the 162 airfields available in EAW. The file does not contain all infos about the positions of the airfields, thus referring to other data files. It is thought to contain data about the nature of airfields, their orientation, the number and position of buildings ...

Structure of a chunk :

bytes 1-6 : unknown, sometimes all 00

bytes 7,8 : unknown, never 00

bytes 9-24 : always 00

bytes 25-40 : unknown, repeats of 0X 00
 bytes 41,42 : specific to a given airfield. The values increase accordingly to the positions of the airfields (from west to east)
 bytes 43,44 : always 00

A better knowledge of these data should allow to modify the parameters of the airfields but, unfortunately, (still) not their positions.

 BASE Original Original
 bytes(d) in code(h) in
 Airfield.dat Squ*.dat

Abbeville	4664-4707	6A
Achmer	1936-1979	2C
Alconburg	6512-6555	94
Altenstadt	1804-1847	29
Amiens	4884-4927	6F
Amsterdam	4928-4971	70
Andrews Field	7084-7127	A1
Audembert	4532-4575	67
Bassingbourn	6864-6907	9C
Beaumont le Roger	440-483	0A
Beauvais	748-791	11
Berlin	5060-5103	73
Biggin Hill	3168-3211	48
Bissel	1540-1583	23
Bodney	3916-3959	59
Bonn	5280-5323	78
Borkheide	2200-2243	32

Boxted	88-131	02
Brandis	1848-1891	2A
Bremen	4708-4751	6B
Briest	2508-2551	39
Brunswick	4752-4795	6C
Brussels	5324-5367	79
Caen	5412-5455	7B
Caffiers	4620-4663	69
Cambrai	704-747	10
Chailey	3872-3915	58
Chartres	4796-4839	6D
Chaumont	4444-4487	65
Chelveston	6732-6775	99
Cherbourg	5588-5631	7F
Chievres	792-835	12
Cormeilles	924-967	15
Creil	5808-5851	84
Croydon	3388-3431	4D
Cuxhaven	6248-6291	8E
Darmstadt	6116-6159	8B
Debden	132-175	O3
Deelen	572-615	0D
Detling	3344-3387	4C
Diepholz	6160-6203	8C
Dortmund	4840-4883	6E
Drope	1496-1539	22
Dusseldorf	4972-5015	71
Duxford	3564-3607	51
Eastchurch	3300-3343	4B
Echterdingen	2816-2859	40

Eindhoven	836-879	13
Evreux	880-923	14
Florennes	660-703	0F
Ford	3740-3783	55
Framlingham	6600-6643	96
Frankfurt	5016-5059	72
Freiburg	6468-6511	93
Funtington	3960-4003	5A
Giebelstadt	2684-2727	3D
Gravesend	3080-3123	46
Great Dunmow	7040-7083	A0
Grimbergen	484-527	0B
Guyancourt	968-1011	16
Halesworth	44-87	01
Hamburg	5148-5191	75
Hannover	5236-5279	77
Hawkinge	3476-3519	4F
Hethel	6996-7039	9F
Holmsley South	3784-3827	56
Hornchurch	3036-3079	45
Horsham St Faith	0-43	00
Hurn	3696-3739	54
Jever	1100-1143	19
Juterbog	2244-2287	33
Juvincourt	1144-1187	1A
Kaltenkirchen	2464-2507	38
Kenley	3212-3255	49
Kiel	5368-5411	7A
Kings Cliffe	6776-6819	9A
Kirrlach	2728-2771	3E

Knettishall	6644-6687	97
Konigsburg	5456-5499	7C
Laon	6424-6467	92
Laval	1188-1231	1B
Le Bourget	2552-2595	3A
Le Culot	1232-1275	1C
Le Havre	2640-2683	3C
Le Mans	4488-4531	66
Lechfeld	4224-4267	60
Leipheim	4180-4223	5F
Leipheim	4312-4355	62
Leipzig	5500-5543	7D
Leiston	220-263	05
Lille	5544-5587	7E
Lobnitz	2288-2331	34
Lubeck	6380-6423	91
Luneburg	1276-1319	1D
Lympne	3608-3651	52
Magdeburg	5632-5675	80
Malmsheim	2772-2815	3F
Mannheim	5676-5719	81
Manston	3124-3167	47
Marquise	4576-4619	68
Martlesham	2860-2903	41
Merston	4048-4091	5C
Merzhausen	1672-1715	26
Metfield	6820-6863	9B
Metz	6204-6247	8D
Middle Wallop	3432-3475	4E
Morlaix	5720-5763	82

Munich	4356-4399	63
Munster	6292-6335	8F
Needs Ore Point	4136-4179	5E
Neuberg	4268-4311	61
Newchurch	4092-4135	5D
Nidda	1716-1759	27
Nordhorn	1452-1495	21
North Weald	2904-2947	42
Northolt	2992-3035	44
Nuremburg	5764-5807	83
Nuthampstead	6688-6731	98
Oldenburg	1320-1363	1E
Oranienburg	4400-4443	64
Paderborn	1408-1451	20
Parchim	1628-1671	25
Paris	5852-5895	85
Pilsen	5896-5939	86
Plantlunne	1364-1407	1F
Poix	396-439	09
Pommsen	2156-2199	31
Quakenbruck	1892-1935	2B
Rattlesden	6556-6599	95
Raydon	176-219	04
Reims	5984-6027	88
Rennes	5940-5983	87
Rhein-Main	2596-2639	3B
Rheine	6028-6071	89
Rochford	2948-2991	43
Rosieres	1056-1099	18
Rostock	6072-6115	8A

Rotenburg	1980-2023	2D
Salzwedel	2024-2067	2E
Schiphol	528-571	0C
Selsey	4004-4047	5B
Shipdham	6952-6995	9E
St Omer	352-395	08
St. Dizier	2068-2111	2F
St. Trond	2112-2155	30
Stade	1584-1627	24
Stuttgart	6336-6379	90
Tangmere	3256-3299	4A
Thorney Island	3828-3871	57
Tours	5192-5235	76
Twente	2332-2375	35
Vannes	1760-1803	28
Villacoublay	1012-1055	17
Vitry	264-307	06
West Malling	3520-3563	50
Westhampnett	3652-3695	53
Wevelghem	308-351	07
Wiesbaden	5104-5147	74
Wissant	2376-2419	36
Woensdrecht	616-659	0E
Wormingford	6908-6951	9D
Wunstorf	2420-2463	37

I noted that exchange of a chunk of an airfield with another one, does activate this latter and desactivates the first one.

This finding was used to move some allied bases from west to east, in order to play with frontlines #10 to 20 of the present package.

IMPORTANT !!!!!!!!! TO CAMPAIGN MAKERS !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
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These files may be used for creating new campaigns. However, be careful :

The codes of the newly-activated bases are different from the original ones. In fact, they correspond to those of the original airfields.

Here are the codes of the activated bases for the SQU*.DAT files. The others are unchanged and are listed in Charles Gunst's notes (the original codes are also listed above).

Frontline sets #1-9 -----
No code changes.

Frontline sets #10-12 -----
Reims : 11 instead of 88
Wevelghem : 7B instead of 07

Frontline sets #13-16 -----
Metz : 87 instead of 8D
Reims : 11 instead of 88
Wevelghem : 7B instead of 07

Frontline set #17 -----

Darmstadt : 4E instead of 8B

Frankfurt : 57 instead of 72

Kirrlach : 53 instead of 3E

Mannheim : 4A instead of 81

Merzhausen: 55 instead of 26

Metz : 87 instead of 8D

Reims : 11 instead of 88

Rhein-Main: 6F instead of 3B

Wevelghem : 7B instead of 07

Wiesbaden : 3A instead of 74

Frontline set #18 -----

Bonn : 59 instead of 78

Darmstadt : 6F instead of 8B

Dortmund : 4B instead of 6E

Dusseldorf : 51 instead of 71

Frankfurt : 06 instead of 72

Giebelstadt : 7B instead of 3D

Kirrlach : 6D instead of 3E

Mannheim : 11 instead of 81

Metz : 88 instead of 8D

Munster : 57 instead of 8F

Nidda : 44 instead of 27

Paderborn : 45 instead of 20

Rhein-Main : 92 instead of 3B

Rheine : 4E instead of 89

Rotenburg : 46 instead of 2D
Wiesbaden : 1A instead of 74

Frontline sets #19,20 -----

Bissel : 46 instead of 23
Brunswick : 06 instead of 6C
Diepholz : 7F instead of 8C
Frankfurt : 12 instead of 72
Giebelstadt : 36 instead of 3D
Hannover : 6F instead of 77
Kirrlach : 92 instead of 3E
Konigsburg : 51 instead of 7C
Leipzig : 49 instead of 7D
Luneburg : 4E instead of 1D
Magdeburg : 45 instead of 80
Mannheim : 1A instead of 81
Metz : 2F instead of 8D
Munster : 0B instead of 8F
Nidda : 13 instead of 27
Nordhorn : 7B instead of 21
Paderborn : 1C instead of 20
Pommers : 59 instead of 31
Rhein-Main : 30 instead of 3B
Rheine : 79 instead of 89
Salzwedel : 57 instead of 2E
Wiesbaden : 0F instead of 74
Wunstorf : 11 instead of 37

Frontline set FL_France -----

No code changes.

Front line set #22 is based on Frontline #17
but with Allied on the right and Axis on the left side.
It is dedicated to "East-Front"-type missions.

Airfields whose codes have changed (for Campaign developers)

Frontline set #22 -----

ALLIED

Based in Germany

Bissel : 46 instead of 23

Bonn : 4D instead of 78

Brunswick : 06 instead of 6C

Diepholz : 7F instead of 8C

Dortmund : 50 instead of 6E

Giebelstadt : 36 instead of 3D

Hannover : 6F instead of 77

Konigsburg : 51 instead of 7C

Leipzig : 49 instead of 7D

Luneburg : 4E instead of 1D

Magdeburg : 45 instead of 80

Munster : 0B instead of 8F

Nidda : 13 instead of 27

Nordhorn : 7B instead of 21

Paderborn : 1C instead of 20

Pommsen : 31 instead of 31

Rheine : 79 instead of 89

AXIS AIRFIELDS

Based in Germany :

Frankfurt : 12 instead of 72

Kirrlach : 92 instead of 3E

Mannheim : 1A instead of 81

Rhein-Main : 30 instead of 3B

Wiesbaden : 0F instead of 74

Based in Belgium :

Brussels : 89 instead of 79

Chièvres : 72 instead of 12

Florennes : 74 instead of 0F

Grimbergen : 8F instead of 0B

Le Culot : 20 instead of 1C

St Trond : 3B instead of 30

Based in Holland :

Eindhoven : 27 instead of 13

Based in France :

Amiens : 77 instead of 6F

Beauvais : 37 instead of 11

Caen : 21 instead of 7B

Juvincourt : 81 instead of 1A

Laon : 3E instead of 92

Metz : 2F instead of 8D

St Dizier : 8D instead of 2F

Vitry : 6C instead of 06

Wissant : 3D instead of 36

Known minor problem : besides the name of the base, the country of the original base is displayed. For example with frontline #18:

30th June 1943, Giebelstadt, France.

Other problems : please let me know.

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July 2000