EUROPEAN ORGANISATION
FOR THE SAFETY OF AIR NAVIGATION

EUROCONTROL EXPERIMENTAL CENTRE

REVISION SUMMARY DOCUMENT FOR THE BASE OF AIRCRAFT DATA (BADA) REVISION 3.5

EEC Note No. 10/03

ACE-C-E2

Issued: July 2003

The information contained in this document is the property of the EUROCONTROL Agency and no part should be reproduced in any form without the Agency's permission.
The views expressed herein do not necessarily reflect the official views or policy of the Agency.

REPORT DOCUMENTATION PAGE

Reference: EEC Note No. 10/03	**Security Classification:** Unclassified
Originator: ACE-C-E2	**Originator (Corporate Author) Name/Location:** EUROCONTROL Experimental Centre B.P.15 F - 91222 Brétigny-sur-Orge CEDEX FRANCE Telephone : +33 1 69 88 75 00
Sponsor: EEC	**Sponsor (Contract Authority) Name/Location:** EUROCONTROL Agency Rue de la Fusée, 96 B -1130 BRUXELLES Telephone : +32 2 729 9011

TITLE:

Revision Summary Document for the Base of Aircraft Data (BADA) - Revision 3.5

Author	Date	Pages	Figures	Tables	Appendix	References
A. Nuic	07/03	viii + 28	0	1	1	4

EATMP Task Specification	Program	Task No. Sponsor	Period
	ACE-C-E2		06/02 to 07/03

Distribution Statement:
(a) Controlled by: Head of program
(b) Special Limitations: None
(c) Copy to NTIS: YES / ~~NO~~

Descriptors (keywords):

aircraft model, total-energy model, BADA, revision summary

Abstract:

This Revision Summary Document (RSD) describes all changes made to BADA files in Revision 3.5 since the previous release, Revision 3.4. Configuration management procedures for BADA trace all changes through Configuration Change Orders (CCOs). The RSD thus presents a list of all 16 CCOs implemented for BADA 3.5 along with a description for each CCO.

This document has been collated by mechanical means. Should there be missing pages, please report to:

EUROCONTROL Experimental Centre
Publications Office
B.P. 15
91222 - BRETIGNY-SUR-ORGE CEDEX
France

Revision Summary Document
for the
Base of Aircraft Data (BADA) 3.5

Summary

This Revision Summary Document (RSD) describes all changes made to BADA files in Revision 3.5 since the previous release, Revision 3.4. Configuration management procedures for BADA trace all changes through Configuration Change Orders (CCOs). The RSD thus presents a list of all 16 CCOs implemented for BADA 3.5 along with a description for each CCO.

<Intentionally Blank>

Table of Contents

1. INTRODUCTION 1

1.1 Identification and Scope 1

1.2 Organisation 1

1.3 Referenced Documents 1

1.4 Glossary of Acronyms 2

2. CONFIGURATION CHANGE ORDERS 3

APPENDIX A: Revision Summary File for BADA 3.5

<Intentionally Blank>

1. INTRODUCTION

1.1 Identification and Scope

This document summarises the changes made to the Base of Aircraft Data (BADA), Revision 3.5 since the previous release, Revision 3.4.

A general description of BADA Revision 3.5 is provided in the BADA 3.5 User Manual [RD1].

1.2 Organisation

This document is presented in two sections including Section 1, the Introduction. This first section includes a list of referenced documents and a glossary of acronyms.

Section 2, Configuration Change Orders, presents a list of all changes to the BADA files between Revisions 3.4 and 3.5. Each change is classified as a Configuration Change Order (CCO). A description for each CCO is also included in this section.

1.3 Referenced Documents

RD1 User Manual for the Base of Aircraft Data (BADA) Revision 3.5; EEC Note No. 11/03, 2003

RD2 Configuration Management Manual for the Base of Aircraft Data (BADA), Issue 3.0; Internal EEC Note 1/APO/1998, April 1998.

RD3 Aircraft Type Designators; ICAO Document No. 8643/30, 30th Edition, November 2002

RD4 Introduction to Continuus/ CM; Continuus Software Corporation, California

1.4 Glossary of Acronyms

APF Airline Procedures File

BADA Base of Aircraft Data

CAS Calibrated Airspeed

CCO Configuration Change Order

CM Configuration Management

CRCO Central Route Charges Office

EEC Eurocontrol Experimental Centre

ICAO International Civil Aviation Organisation

IPAS Integrated Preparation and Analysis System

MTOW Maximum Take-off Weight

OPF Operations Performance File

PTF Performance Table File

RCS Revision Control System

ROD Rate of Descent

RSD Revision Summary Document

2. CONFIGURATION CHANGE ORDERS

Table 2-1 below provides a summary of the 23 BADA Configuration Change Orders (CCOs) that were implemented between BADA Revisions 3.3 and 3.4. The use of CCOs as part of the configuration management (CM) procedures for BADA is described in the BADA CM Manual [RD2].

Table 2-1: CCO Summary for BADA 3.4

CCO Identifier	Title
BADA-CCO-01-2003	B712 aircraft model added
BADA-CCO-02-2003	LJ45 aircraft model added
BADA-CCO-03-2003	C750 aircraft model added
BADA-CCO-04-2003	RJ85 aircraft model added
BADA-CCO-05-2003	B736 aircraft model added
BADA-CCO-06-2003	B753 aircraft model added
BADA-CCO-07-2003	A332 aircraft model added
BADA-CCO-08-2003	B772 re-modelled
BADA-CCO-09-2003	B738 re-modelled
BADA-CCO-10-2003	B763 re-modelled
BADA-CCO-11-2003	B703 WTC modified
BADA-CCO-12-2003	JS41 WTC modified
BADA-CCO-13-2003	Addition of new synonym aircraft types
BADA-CCO-14-2003	Modification of BADA models for existing synonym aircraft types
BADA-CCO-15-2003	SYNONYM_ALL.LST added
BADA-CCO-16-2003	BADA release 3.5

Descriptions for each CCO are presented in subsequent pages. For each CCO a description of the change, motivation for the change and a specification of the affected files is provided. If either the OPF or APF file has been changed than the PTF file is re-created with the updated files. For an explanation of symbols referring to BADA coefficients, see the BADA 3.5 User Manual [RD1].

BADA-CCO-01-2003

B712 aircraft model added

Description of Modification:

New BADA model for B717-200 aircraft type has been added.

Reason for Modification:

Following the analysis and results presented in the "Coverage of 2001 European Air Traffic for the Base of Aircraft Data (BADA) Revision 3.4" document, EEC Note 09/02, the decision has been taken to model this aircraft type.

Files Affected:

B712__.APF	added
B712__.OPF	added
B712__.PTF	added
Synonym.NEW	modified
Synonym.LST	modified

BADA-CCO-02-2003

LJ45 aircraft model added

Description of Modification:

New BADA model for LJ45 aircraft type has been added.

Reason for Modification:

Following the analysis and results presented in the "Coverage of 2001 European Air Traffic for the Base of Aircraft Data (BADA) Revision 3.4" document, EEC Note 09/02, the decision has been taken to model this aircraft type.

Files Affected:

LJ45__.APF	added
LJ45__.OPF	added
LJ45__.PTF	added
Synonym.NEW	modified
Synonym.LST	modified

BADA-CCO-03-2003

C750 aircraft model added

Description of Modification:

New BADA model for C750 aircraft type has been added.

Reason for Modification:

Following the user's requirements and results presented in the "Coverage of 2001 European Air Traffic for the Base of Aircraft Data (BADA) Revision 3.4" document, EEC Note 09/02, the decision has been taken to model this aircraft type.

Files Affected:

C750__.APF	added
C750__.OPF	added
C750__.PTF	added
Synonym.NEW	modified
Synonym.LST	modified

BADA-CCO-04-2003

RJ85 aircraft model added

Description of Modification:

New BADA model for RJ85 aircraft type has been added.

Reason for Modification:

Following the analysis and results presented in the "Coverage of 2001 European Air Traffic for the Base of Aircraft Data (BADA) Revision 3.4" document, EEC Note 09/02, the decision has been taken to model this aircraft type.

Files Affected:

RJ85__.APF	added
RJ85__.OPF	added
RJ85__.PTF	added
Synonym.NEW	modified
Synonym.LST	modified

BADA-CCO-05-2003

B736 aircraft model added

Description of Modification:

New BADA model for B737-600 aircraft type has been added.

Reason for Modification:

Following the analysis and results presented in the "Coverage of 2001 European Air Traffic for the Base of Aircraft Data (BADA) Revision 3.4" document, EEC Note 09/02, the decision has been taken to model this aircraft type.

Files Affected:

B736__.APF	added
B736__.OPF	added
B736__.PTF	added
Synonym.NEW	modified
Synonym.LST	modified

BADA-CCO-06-2003

B753 aircraft model added

Description of Modification:

New BADA model for B757-300 aircraft type has been added.

Reason for Modification:

Following the analysis and results presented in the "Coverage of 2001 European Air Traffic for the Base of Aircraft Data (BADA) Revision 3.4" document, EEC Note 09/02, the decision has been taken to model this aircraft type.

Files Affected:

B753__.APF	added
B753__.OPF	added
B753__.PTF	added
Synonym.NEW	modified
Synonym.LST	modified

BADA-CCO-07-2003

A332 aircraft model added

Description of Modification:

New BADA model for A330-200 aircraft type has been added.

Reason for Modification:

Following the analysis and results presented in the "Coverage of 2001 European Air Traffic for the Base of Aircraft Data (BADA) Revision 3.4" document, EEC Note 09/02, the decision has been taken to model this aircraft type.

Files Affected:

A332__.APF	added
A332__.OPF	added
A332__.PTF	added
Synonym.NEW	modified
Synonym.LST	modified

BADA-CCO-08-2003

B772 aircraft model re-modelled

Description of Modification:

The BADA model for B777-200 aircraft type has been re-modelled.

Reason for Modification:

Better aircraft reference data was obtained leading to the more accurate BADA model for B777-200 aircraft type.

Files Affected:

B772__.APF	modified
B772__.OPF	modified
B772__.PTF	modified

BADA-CCO-09-2002

B738 aircraft model re-modelled

Description of Modification:

The BADA model for B737-800 aircraft type has been re-modelled.

Reason for Modification:

Better aircraft reference data was obtained leading to the more accurate BADA model for B737-800 aircraft type.

Files Affected:

B738__.APF	modified
B738__.OPF	modified
B738__.PTF	modified

BADA-CCO-10-2002

B763 aircraft model re-modelled

Description of Modification:

The BADA model for B767-300 aircraft type has been re-modelled.

Reason for Modification:

Negative value of descent thrust coefficient.

Files Affected:

B763__.APF	modified
B763__.OPF	modified
B763__.PTF	modified

BADA-CCO-11-2003

B703 wake turbulence category modified

Description of Modification:

Wake turbulence category modified.

Reason for Modification:

Correction of incorrect WTC in BADA OPF file.

Files Affected:

B703__.OPF modified

BADA-CCO-12-2003

JS41 wake turbulence category modified

Description of Modification:

Wake turbulence category modified.

Reason for Modification:

Correction of incorrect WTC in BADA OPF file.

Files Affected:

JS41__.OPF modified

BADA-CCO-13-2003

Addition of new synonym aircraft types

Description of Modification:

New synonym aircraft types have been added.

NEW synonym aircraft	BADA 3.5 model
P180	F70
GLEX	B744
C30J	C130
J328	F28
A7	FGTN
B52	FGTL
ETAR	FGTN
F117	FGTN
L159	FGTN

Reason for Modification:

Addition of new equivalence aircraft types.

Files Affected:

Synonym.NEW	modified
Synonym.LST	modified

BADA-CCO-14-2003

Modification of BADA models for existing synonym aircraft types

Description of Modification:

New synonym aircraft types have been added.

NEW synonym aircraft	BADA 3.5 model
C17	B763
GLF3 GLF3 GLF4 GLF5	LJ45

Reason for Modification:

Better representation of the aircraft performances.

Files Affected:

Synonym.NEW	modified
Synonym.LST	modified

BADA-CCO-15-2003

SYNONYM_ALL.LST file added

Description of Modification:

SYNONYM_ALL.LST file added.

Reason for Modification:

A new file containing all the BADA supported aircraft types with information on ICAO aircraft type designator evaluation and history (from V24 of ICAO doc.8643) is added to the BADA official release.

Files Affected:

SYNONYM_ALL.LST	added

BADA-CCO-16-2003

BADA release 3.5

Description of Modification:

New BADA release.

Files Affected:

All *.OPF	updated
All *.APF	updated
SYNONYM.NEW	updated
SYNONYM.LST	updated
BADA.GPF	updated

APPENDIX A

BADA 3.5 – RELEASE SUMMARY FILE

<Intentionally Blank>

BADA Release Summary File
Summary Date

BADA Release: 3.5
Number of Files: 265 Page 1/6

File Name	Last Modification Date	Version	BADA Release	Release Date
A306__.APF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
A306__.OPF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
A306__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A30B__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A30B__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A30B__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A310__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A310__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A310__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A319__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A319__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A319__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A320__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A320__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A320__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A321__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A321__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A321__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A332__.APF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
A332__.OPF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
A332__.PTF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
A333__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A333__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A333__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A343__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A343__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
A343__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
AT43__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
AT43__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
AT43__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
AT45__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
AT45__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
AT45__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
AT72__.APF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
AT72__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
AT72__.PTF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
ATP___.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
ATP___.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
ATP___.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B461__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B461__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B461__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B703__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B703__.OPF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
B703__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003

BADA Release Summary File
Summary Date

BADA Release: 3.5
Number of Files: 265 Page 2/6

File Name	Last Modification Date	Version	BADA Release	Release Date
B712__.APF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
B712__.OPF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
B712__.PTF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
B722__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B722__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B722__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B732__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B732__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B732__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B733__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B733__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B733__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B734__.APF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
B734__.OPF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
B734__.PTF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
B735__.APF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
B735__.OPF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
B735__.PTF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
B736__.APF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
B736__.OPF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
B736__.PTF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
B737__.APF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
B737__.OPF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
B737__.PTF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
B738__.APF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
B738__.OPF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
B738__.PTF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
B742__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B742__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B742__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B743__.APF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
B743__.OPF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
B743__.PTF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
B744__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B744__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B744__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B752__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B752__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B752__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B753__.APF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
B753__.OPF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
B753__.PTF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
B762__.APF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
B762__.OPF	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
B762__.PTF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003

BADA Release Summary File
Summary Date

BADA Release: 3.5
Number of Files: 265 Page 3/6

File Name	Last Modification Date	Version	BADA Release	Release Date
B763__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
B763__.OPF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
B763__.PTF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
B772__.APF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
B772__.OPF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
B772__.PTF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
BA11__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
BA11__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
BA11__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
bada.GPF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
BE20__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
BE20__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
BE20__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
BE99__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
BE99__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
BE99__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
BE9L__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
BE9L__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
BE9L__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C130__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C130__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C130__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C160__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C160__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C160__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C421__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C421__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C421__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C550__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C550__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C550__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C560__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C560__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C560__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
C750__.APF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
C750__.OPF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
C750__.PTF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
CL60__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
CL60__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
CL60__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
CRJ1__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
CRJ1__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
CRJ1__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
D228__.APF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
D228__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
D228__.PTF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003

BADA Release Summary File
Summary Date

BADA Release: 3.5
Number of Files: 265 Page 4/6

File Name	Last Modification Date	Version	BADA Release	Release Date
D328__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
D328__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
D328__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
DC10__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
DC10__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
DC10__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
DC87__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
DC87__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
DC87__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
DC94__.APF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
DC94__.OPF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
DC94__.PTF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
DH8C__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
DH8C__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
DH8C__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
E120__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
E120__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
E120__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
E145__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
E145__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
E145__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F100__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F100__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F100__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F27___.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F27___.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F27___.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F28___.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F28___.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F28___.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F50___.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F50___.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F50___.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F70___.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F70___.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F70___.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F900__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F900__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
F900__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FA10__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FA10__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FA10__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FA20__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FA20__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FA20__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003

BADA Release Summary File
Summary Date

BADA Release: 3.5
Number of Files: 265 Page 5/6

File Name	Last Modification Date	Version	BADA Release	Release Date
FA50__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FA50__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FA50__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FGTH__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FGTH__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FGTH__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FGTL__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FGTL__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FGTL__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FGTN__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FGTN__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
FGTN__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
H25B__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
H25B__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
H25B__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
JS31__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
JS31__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
JS31__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
JS41__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
JS41__.OPF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
JS41__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
L101__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
L101__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
L101__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
LJ35__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
LJ35__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
LJ35__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
LJ45__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
LJ45__.OPF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
LJ45__.PTF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
MD11__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
MD11__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
MD11__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
MD83__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
MD83__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
MD83__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
MU2___.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
MU2___.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
MU2___.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
P28A__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
P28A__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
P28A__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003

BADA Release Summary File
Summary Date

BADA Release: 3.5
Number of Files: 265 Page 6/6

File Name	Last Modification Date	Version	BADA Release	Release Date
PA27__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
PA27__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
PA27__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
PA31__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
PA31__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
PA31__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
PA34__.APF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
PA34__.OPF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
PA34__.PTF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
PAY2__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
PAY2__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
PAY2__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
PAY3__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
PAY3__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
PAY3__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
RJ85__.APF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
RJ85__.OPF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
RJ85__.PTF	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
SB20__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
SB20__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
SB20__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
SF34__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
SF34__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
SF34__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
SH36__.APF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
SH36__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
SH36__.PTF	Thu May 22 12:00:00 2003	3	bada3.5	Fri jul 4 10:00:35 2003
SW3___.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
SW3___.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
SW3___.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
SYNONYM.LST	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
SYNONYM.NEW	Thu May 22 12:00:00 2003	4	bada3.5	Fri jul 4 10:00:35 2003
SYNONYM_ALL.LST	Thu May 22 12:00:00 2003	1	bada3.5	Fri jul 4 10:00:35 2003
T134__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
T134__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
T134__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
T154__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
T154__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
T154__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
TRIN__.APF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
TRIN__.OPF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003
TRIN__.PTF	Thu May 22 12:00:00 2003	2	bada3.5	Fri jul 4 10:00:35 2003