

**ARRL DXCC LIST
CURRENT ENTITIES**

April 2017 Edition

Current Entities Total: 337 (Entry level Honor Roll is 328 current entities)

The *ARRL DXCC List* is also available from our Publication Sales Department for \$5.95 each plus shipping. In addition to the List, the paper copy includes: the DXCC rules, DXCC Award Application, ARRL DXCC Card Checkers, Incoming and Outgoing QSL Bureau information and more.

Effective April 2, 2012 DXCC card checkers can check all current and deleted entities on the DXCC list. Also, only approved DXCC card checkers can check 160 Meters. For the list of approved 160 Meter card checkers (noted in Red) visit: <http://www.arrl.org/dxcc-card-checker-master-list>

Note: * Indicates current list of entities for which QSLs may be forwarded by the ARRL membership Outgoing QSL Service.

Indicates entities with which US Amateurs may legally handle third-party message traffic.

Prefix	Entity	Cont	ITU	CQ	Entity Code
	Spratly Is.	AS	50	26	247
1A ¹	Sov. Mil. Order of Malta	EU	28	15	246
3A*	Monaco	EU	27	14	260
3B6, 7	Agalega & St. Brandon Is.	AF	53	39	004
3B8	Mauritius	AF	53	39	165
3B9	Rodriguez I.	AF	53	39	207
3C	Equatorial Guinea	AF	47	36	049
3C0	Annobon I.	AF	52	36	195
3D2*	Fiji	OC	56	32	176
3D2	Conway Reef	OC	56	32	489
3D2*	Rotuma I.	OC	56	32	460
3DA#	Swaziland	AF	57	38	468
3V*	Tunisia	AF	37	33	474
3W,XV	Viet Nam	AS	49	26	293
3X	Guinea	AF	46	35	107
3Y*	Bouvet	AF	67	38	024
3Y*	Peter 1 I.	AN	72	12	199
4J, 4K	Azerbaijan	AS	29	21	018
4L*	Georgia	AS	29	21	075
4O ⁴⁷ *	Montenegro	EU	28	15	514
4S*	Sri Lanka	AS	41	22	315
4U_ITU#*	ITU HQ	EU	28	14	117
4U_UN*	United Nations HQ	NA	08	05	289

4W ⁴⁴	Timor - Leste	OC	54	28	511
4X, 4Z	Israel	AS	39	20	336
5A	Libya	AF	38	34	436
5B, C4, P3*	Cyprus	AS	39	20	215
5H-5I*	Tanzania	AF	53	37	470
5N*	Nigeria	AF	46	35	450
5R	Madagascar	AF	53	39	438
5T ²	Mauritania	AF	46	35	444
5U ³	Niger	AF	46	35	187
5V	Togo	AF	46	35	483
5W*	Samoa	OC	62	32	190
5X*	Uganda	AF	48	37	286
5Y-5Z*	Kenya	AF	48	37	430
6V-6W ^{4*}	Senegal	AF	46	35	456
6Y#*	Jamaica	NA	11	08	082
7O ⁵	Yemen	AS	39	21	492
7P	Lesotho	AF	57	38	432
7Q	Malawi	AF	53	37	440
7T-7Y*	Algeria	AF	37	33	400
8P*	Barbados	NA	11	08	062
8Q*	Maldives	AS/AF	41	22	159
8R#*	Guyana	SA	12	09	129
9A ^{6*}	Croatia	EU	28	15	497
9G ^{7*} #*	Ghana	AF	46	35	424
9H*	Malta	EU	28	15	257
9I-9J*	Zambia	AF	53	36	482
9K*	Kuwait	AS	39	21	348
9L#	Sierra Leone	AF	46	35	458
9M2, 4 ^{8*}	West Malaysia	AS	54	28	299
9M6, 8 ^{8*}	East Malaysia	OC	54	28	046
9N	Nepal	AS	42	22	369
9Q-9T*	Dem. Rep. of Congo	AF	52	36	414
9U ⁹	Burundi	AF	52	36	404
9V ^{10*}	Singapore	AS	54	28	381
9X ⁹	Rwanda	AF	52	36	454
9Y-9Z#*	Trinidad & Tobago	SA	11	09	090
A2*	Botswana	AF	57	38	402
A3	Tonga	OC	62	32	160
A4*	Oman	AS	39	21	370
A5	Bhutan	AS	41	22	306
A6	United Arab Emirates	AS	39	21	391
A7*	Qatar	AS	39	21	376
A9*	Bahrain	AS	39	21	304
AP*	Pakistan	AS	41	21	372
B*	China	AS	(A)	23,24	318
BS7 ¹¹	Scarborough Reef	AS	50	27	506

BU-BX*	Taiwan	AS	44	24	386
BV9P ¹²	Pratas I.	AS	44	24	505
C2	Nauru	OC	65	31	157
C3*	Andorra	EU	27	14	203
C5#	The Gambia	AF	46	35	422
C6	Bahamas	NA	11	08	060
C8-9*	Mozambique	AF	53	37	181
CA-CE#*	Chile	SA	14,16	12	112
CE0#*	Easter I.	SA	63	12	047
CE0#*	Juan Fernandez Is.	SA	14	12	125
CE0#*	San Felix & San Ambrosio	SA	14	12	217
CE9/KC4^*	Antarctica	AN	(B)	(C)	013
CM, CO#*	Cuba	NA	11	08	070
CN	Morocco	AF	37	33	446
CP#*	Bolivia	SA	12,14	10	104
CT*	Portugal	EU	37	14	272
CT3*	Madeira Is.	AF	36	33	256
CU*	Azores	EU	36	14	149
CV-CX#*	Uruguay	SA	14	13	144
CY0*	Sable I.	NA	09	05	211
CY9*	St. Paul I.	NA	09	05	252
D2-3	Angola	AF	52	36	401
D4	Cape Verde	AF	46	35	409
D6*# ¹³	Comoros	AF	53	39	411
DA-DR ¹⁴ *	Fed. Rep. of Germany	EU	28	14	230
DU-DZ,4D-4I#*	Philippines	OC	50	27	375
E3 ¹⁵	Eritrea	AF	48	37	051
E4 ⁴³	Palestine	AS	39	20	510
E5	N. Cook Is.	OC	62	32	191
E5	S. Cook Is.	OC	62	32	234
E6*	Niue	OC	62	32	188
E7 ²⁹ #*	Bosnia-Herzegovina	EU	28	15	501
EA-EH*	Spain	EU	37	14	281
EA6-EH6*	Balearic Is.	EU	37	14	021
EA8-EH8*	Canary Is.	AF	36	33	029
EA9-EH9*	Ceuta & Melilla	AF	37	33	032
EI-EJ*	Ireland	EU	27	14	245
EK*	Armenia	AS	29	21	014
EL#*	Liberia	AF	46	35	434
EP-EQ*	Iran	AS	40	21	330
ER*	Moldova	EU	29	16	179
ES*	Estonia	EU	29	15	052
ET*	Ethiopia	AF	48	37	053
EU-EW*	Belarus	EU	29	16	027
EX*	Kyrgyzstan	AS	30,31	17	135
EY*	Tajikistan	AS	30	17	262

EZ*	Turkmenistan	AS	30	17	280
F*	France	EU	27	14	227
FG, TO*	Guadeloupe	NA	11	08	079
FH, TO ^{13*}	Mayotte	AF	53	39	169
FJ, TO ^{49*}	Saint Barthelemy	NA	11	08	516
FK, TX*	New Caledonia	OC	56	32	162
FK, TX ⁴⁵	Chesterfield Is.	OC	56	30	512
FM, TO*	Martinique	NA	11	08	084
FO, TX ^{16*}	Austral I.	OC	63	32	508
FO, TX*	Clipperton I.	NA	10	07	036
FO, TX*	French Polynesia	OC	63	32	175
FO, TX ^{16*}	Marquesas Is.	OC	63	31	509
FP*	St. Pierre & Miquelon	NA	09	05	277
FR, TO*	Reunion I.	AF	53	39	453
FT/G, TO ^{17*}	Glorioso Is.	AF	53	39	099
FT/J,E, TO ^{17*}	Juan de Nova, Europa	AF	53	39	124
FT/T, TO*	Tromelin I.	AF	53	39	276
FS, TO*	Saint Martin	NA	11	08	213
FT/W*	Crozet I.	AF	68	39	041
FT/X*	Kerguelen Is.	AF	68	39	131
FT/Z*	Amsterdam & St. Paul Is.	AF	68	39	010
FW*	Wallis & Futuna Is.	OC	62	32	298
FY*	French Guiana	SA	12	09	063
G, GX, M*	England	EU	27	14	223
GD, GT*	Isle of Man	EU	27	14	114
GI, GN*	Northern Ireland	EU	27	14	265
GJ, GH*	Jersey	EU	27	14	122
GM, GS*	Scotland	EU	27	14	279
GU, GP*	Guernsey	EU	27	14	106
GW, GC*	Wales	EU	27	14	294
H4*	Solomon Is.	OC	51	28	185
H40 ^{18*}	Temotu Province	OC	51	32	507
HA, HG*	Hungary	EU	28	15	239
HB*	Switzerland	EU	28	14	287
HB0	Liechtenstein	EU	28	14	251
HC-HD#*	Ecuador	SA	12	10	120
HC8-HD8#*	Galapagos Is.	SA	12	10	071
HH#	Haiti	NA	11	08	078
HI#*	Dominican Republic	NA	11	08	072
HJ-HK, 5J-5K#*	Colombia	SA	12	09	116
HK0#*	Malpelo I.	SA	12	09	161
HK0#*	San Andres & Providencia	NA	11	07	216
HL, 6K-6N*	Republic of Korea	AS	44	25	137
HO-HP#*	Panama	NA	11	07	088
HQ-HR#*	Honduras	NA	11	07	080
HS, E2*	Thailand	AS	49	26	387

HV	Vatican	EU	28	15	295
HZ*	Saudi Arabia	AS	39	21	378
I*	Italy	EU	28	15,33	248
IS0, IM0*	Sardinia	EU	28	15	225
J2*	Djibouti	AF	48	37	382
J3#*	Grenada	NA	11	08	077
J5	Guinea-Bissau	AF	46	35	109
J6#*	St. Lucia	NA	11	08	097
J7#*	Dominica	NA	11	08	095
J8#	St. Vincent	NA	11	08	098
JA-JS, 7J-7N*	Japan	AS	45	25	339
JD1 ¹⁹ *	Minami Torishima	OC	90	27	177
JD1 ²⁰ *	Ogasawara	AS	45	27	192
JT-JV*	Mongolia	AS	32,33	23	363
JW*	Svalbard	EU	18	40	259
JX*	Jan Mayen	EU	18	40	118
JY#*	Jordan	AS	39	20	342
K,W,N, AA-AK#	United States of America	NA	6,7,8	3,4,5	291
KG4#	Guantanamo Bay	NA	11	08	105
KH0#	Mariana Is.	OC	64	27	166
KH1#	Baker & Howland Is.	OC	61	31	020
KH2#*	Guam	OC	64	27	103
KH3#*	Johnston I.	OC	61	31	123
KH5#	Palmyra & Jarvis Is.	OC	61,62	31	197
KH6,7#*	Hawaii	OC	61	31	110
KH8#*	American Samoa	OC	62	32	009
KH8 ⁴⁸ #*	Swains I.	OC	62	32	515
KH9#	Wake I.	OC	65	31	297
KL,AL,NL, WL#*	Alaska	NA	1,2	1	006
KP1#	Navassa I.	NA	11	08	182
KP2#*	Virgin Is.	NA	11	08	285
KP3,4#*	Puerto Rico	NA	11	08	202
KP5 ²² #	Desecheo I.	NA	11	08	043
LA-LN*	Norway	EU	18	14	266
LO-LW#*	Argentina	SA	14,16	13	100
LX*	Luxembourg	EU	27	14	254
LY*	Lithuania	EU	29	15	146
LZ*	Bulgaria	EU	28	20	212
OA-OC#*	Peru	SA	12	10	136
OD*	Lebanon	AS	39	20	354
OE#*	Austria	EU	28	15	206
OF-OI*	Finland	EU	18	15	224
OH0*	Aland Is.	EU	18	15	005
OJ0*	Market Reef	EU	18	15	167

OK-OL ^{23*}	Czech Republic	EU	28	15	503
OM ^{23*}	Slovak Republic	EU	28	15	504
ON-OT*	Belgium	EU	27	14	209
OU-OW, OZ*	Denmark	EU	18	14	221
OX*	Greenland	NA	5,75	40	237
OY*	Faroe Is.	EU	18	14	222
P2 ²⁴	Papua New Guinea	OC	51	28	163
P4 ^{25*}	Aruba	SA	11	09	091
P5 ²⁶	DPR of Korea	AS	44	25	344
PA-PI*	Netherlands	EU	27	14	263
PJ2 ⁵⁰	Curacao	SA	11	09	517
PJ4 ⁵¹	Bonaire	SA	11	09	520
PJ5,6 ⁵²	Saba & St. Eustatius	NA	11	08	519
PJ7 ⁵³	St Maarten	NA	11	08	518
PP-PY, ZV-ZZ#*	Brazil	SA	(D)	11	108
PP0-PY0F#*	Fernando de Noronha	SA	13	11	056
PP0-PY0S#*	St. Peter & St. Paul Rocks	SA	13	11	253
PP0-PY0T#*	Trindade & Martim Vaz Is.	SA	15	11	273
PZ	Suriname	SA	12	09	140
R1/F*	Franz Josef Land	EU	75	40	061
S0 ^{1,27}	Western Sahara	AF	46	33	302
S2*	Bangladesh	AS	41	22	305
S5 ^{6*}	Slovenia	EU	28	15	499
S7	Seychelles	AF	53	39	379
S9	Sao Tome & Principe	AF	47	36	219
SA-SM, 7S-8S*	Sweden	EU	18	14	284
SN-SR*	Poland	EU	28	15	269
ST	Sudan	AF	47, 48	34	466
SU	Egypt	AF	38	34	478
SV-SZ, J4*	Greece	EU	28	20	236
SV/A*	Mount Athos	EU	28	20	180
SV5, J45*	Dodecanese	EU	28	20	045
SV9, J49*	Crete	EU	28	20	040
T2 ²⁸	Tuvalu	OC	65	31	282
T30	W. Kiribati (Gilbert Is.)	OC	65	31	301
T31	C. Kiribati (British Phoenix Is)	OC	62	31	031
T32	E. Kiribati (Line Is.)	OC	61,63	31	048
T33	Banaba I. (Ocean I.)	OC	65	31	490
T5, 6O	Somalia	AF	48	37	232
T7*	San Marino	EU	28	15	278
T8 ²¹	Palau	OC	64	27	022
TA-TC*	Turkey	EU/AS	39	20	390
TF*	Iceland	EU	17	40	242
TG, TD#*	Guatemala	NA	12	07	076
TI, TE#*	Costa Rica	NA	11	07	308

TI9#*	Cocos I.	NA	12	07	037
TJ	Cameroon	AF	47	36	406
TK*	Corsica	EU	28	15	214
TL ³⁰	Central Africa	AF	47	36	408
TN ³¹	Congo (Republic of the)	AF	52	36	412
TR ^{32*}	Gabon	AF	52	36	420
TT ³³	Chad	AF	47	36	410
TU ³⁴	Cote d'Ivoire	AF	46	35	428
TY ³⁵	Benin	AF	46	35	416
TZ ^{36*}	Mali	AF	46	35	442
UA-UI1-7	European Russia	EU	(E)	16	054
RA-RZ*					
UA2, RA2*	Kaliningrad	EU	29	15	126
UA-UI8,9,0	Asiatic Russia	AS	(F)	(G)	015
RA-RZ*					
UJ-UM	Uzbekistan	AS	30	17	292
UN-UQ*	Kazakhstan	AS	29-31	17	130
UR-UZ, EM-EO*	Ukraine	EU	29	16	288
V2#*	Antigua & Barbuda	NA	11	08	094
V3#	Belize	NA	11	07	066
V4 ^{37#}	St. Kitts & Nevis	NA	11	08	249
V5*	Namibia	AF	57	38	464
V6 ³⁸	Micronesia	OC	65	27	173
V7#*	Marshall Is.	OC	65	31	168
V8*	Brunei Darussalam	OC	54	28	345
VA-VG, VO,VY#*	Canada	NA	(H)	1-5	001
VK, AX#*	Australia	OC	(I)	29,30	150
VK0#*	Heard I.	AF	68	39	111
VK0#*	Macquarie I.	OC	60	30	153
VK9C#*	Cocos (Keeling) Is.	OC	54	29	038
VK9L#*	Lord Howe I.	OC	60	30	147
VK9M#*	Mellish Reef	OC	56	30	171
VK9N*	Norfolk I.	OC	60	32	189
VK9W#*	Willis I.	OC	55	30	303
VK9X#*	Christmas I.	OC	54	29	035
VP2E ³⁷	Anguilla	NA	11	08	012
VP2M ³⁷	Montserrat	NA	11	08	096
VP2V ^{37*}	British Virgin Is.	NA	11	08	065
VP5*	Turks & Caicos Is.	NA	11	08	089
VP6#*	Pitcairn I.	OC	63	32	172
VP6 ^{46*}	Ducie I.	OC	63	32	513
VP8*	Falkland Is.	SA	16	13	141
VP8, LU*	South Georgia I.	SA	73	13	235
VP8, LU*	South Orkney Is.	SA	73	13	238

VP8, LU*	South Sandwich Is.	SA	73	13	240
VP8, LU, CE9, HF0, 4K1*	South Shetland Is.	SA	73	13	241
VP9*	Bermuda	NA	11	05	064
VQ9*	Chagos Is.	AF	41	39	033
VR*	Hong Kong	AS	44	24	321
VU*	India	AS	41	22	324
VU4*	Andaman & Nicobar Is.	AS	49	26	011
VU7*	Lakshadweep Is.	AS	41	22	142
XA-XI#*	Mexico	NA	10	06	050
XA4-XI4#*	Revillagigedo	NA	10	06	204
XT ³⁹ *	Burkina Faso	AF	46	35	480
XU	Cambodia	AS	49	26	312
XW	Laos	AS	49	26	143
XX9*	Macao	AS	44	24	152
XY-XZ	Myanmar	AS	49	26	309
YA, T6	Afghanistan	AS	40	21	003
YB-YH ⁴⁰ *	Indonesia	OC	51,54	28	327
YI*	Iraq	AS	39	21	333
YJ*	Vanuatu	OC	56	32	158
YK*	Syria	AS	39	20	384
YL*	Latvia	EU	29	15	145
YN,H6-7,HT#*	Nicaragua	NA	11	07	086
YO-YR*	Romania	EU	28	20	275
YS, HU#*	El Salvador	NA	11	07	074
YT-YU*	Serbia	EU	28	15	296
YV-YY, 4M#*	Venezuela	SA	12	09	148
YV0#*	Aves I.	NA	11	08	017
Z2	Zimbabwe	AF	53	38	452
Z3 ⁴¹ *	Macedonia	EU	28	15	502
Z8 ⁵⁴	South Sudan (Rep of)	AF	48	34	521
ZA	Albania	EU	28	15	007
ZB2*	Gibraltar	EU	37	14	233
ZC4 ⁴² *	UK Sov. Base Areas on Cyprus	AS	39	20	283
ZD7*	St. Helena	AF	66	36	250
ZD8*	Ascension I.	AF	66	36	205
ZD9	Tristan da Cunha & Gough I.	AF	66	38	274
ZF*	Cayman Is.	NA	11	08	069
ZK3*	Tokelau Is.	OC	62	31	270
ZL-ZM*	New Zealand	OC	60	32	170
ZL7*	Chatham Is.	OC	60	32	034
ZL8*	Kermadec Is.	OC	60	32	133
ZL9*	New Zealand Subantarctic Islands	OC	60	32	016

ZP#*	Paraguay	SA	14	11	132
ZR-ZU#*	South Africa	AF	57	38	462
ZS8*	Prince Edward & Marion Is.	AF	57	38	201

NOTES:

- 1 Unofficial prefix.
- 2 (5T) Only contacts made June 20, 1960, and after, count for this entity.
- 3 (5U) Only contacts made August 3, 1960, and after, count for this entity.
- 4 (6W) Only contact made June 20, 1960, and after, count for this entity.
- 5 (70) Only contacts made May 22, 1990, and after, count for this entity.
- 6 (9A,S5) Only contacts made June 26, 1991, and after, count for this entity.
- 7 (9G) Only contacts made March 5, 1957, and after, count for this entity.
- 8 (9M2,4,6,8) Only contacts made September 16, 1963, and after, count for this entity.
- 9 (9U, 9X) Only contacts made July 1, 1962, and after, count for this entity.
- 10 (9V) Contacts made from September 16, 1963 to August 8, 1965, count for West Malaysia.
- 11 (BS7) Only contacts made January 1, 1995, and after, count for this entity.
- 12 (BV9P) Only contact made January 1, 1994, and after, count for this entity.
- 13 (D6,FH) Only contacts made July 6, 1975, and after, count for this entity.
- 14 (DA-DR) Only contacts made with DA-DL stations September 17, 1973, and after, and contacts made Y2-Y9 stations October 3, 1990 and after, count for this entity.
- 15 (E3) Only contacts made November 14, 1962, and before, or May 24, 1991, and after, count for this entity.
- 16 (FO) Only contacts made after 23:59 UTC, March 31, 1998 count for this entity.
- 17 (FR) Only contacts made June 25, 1960, and after, count for this entity.
- 18 (H40) Only contacts made after 23:59 UTC, March 31, 1998 count for this entity.
- 19 (JD) Formerly Marcus Island.
- 20 (JD) Formerly Bonin and Volcano Islands
- 21 (T8) Valid prefix January 1, 1994, or after (KC6 prior to this date).
- 22 (KP5) Only contacts made March 1, 1979, and after, count for this entity.
- 23 (OK-OL, OM) Only contacts made January 1, 1993, and after, count for this entity.
- 24 (P2) Only contacts made September 16, 1975, and after count for this entity.
- 25 (P4) Only contacts made January 1, 1986, and after, count for this entity.
- 26 (P5) Only contacts made May 14, 1995, and after, count for this entity.
- 27 (S0) Contacts with Rio de Oro (Spanish Sahara), EA9, also count for this entity.
- 28 (T2) Only contacts made January 1, 1976, and after, count for this entity.
- 29 (E7) New prefix for Bosnia - Herzegovina effective November 17, 2007. Contacts are valid for this entity effective October 15, 1991.
- 30 (TL) Only contacts made August 13, 1960, and after, count for this entity.
- 31 (TN) Only contacts made August 15, 1960, and after, count for this entity.
- 32 (TR) Only contacts made August 17, 1960, and after, count for this entity.
- 33 (TT) Only contacts made August 11, 1960, and after, count for this entity.
- 34 (TU) Only contacts made August 7, 1960, and after, count for this entity.
- 35 (TY) Only contacts made August 1, 1960, and after, count for this entity.
- 36 (TZ) Only contacts made June 20, 1960, and after, count for this entity.
- 37 (V4,VP2) For DXCC credit for contacts made May 31, 1958, and before, see page 97, June 1958 QST.

- 38 (V6) Includes Yap Islands January 1, 1981, and after.
- 39 (XT) Only contacts made August 16, 1960, and after, count for this entity.
- 40 (YB) Only contacts made May 1, 1963, and after, count for this entity.
- 41 (Z3) Only contacts made September 8, 1991, and after, count for this entity.
- 42 (ZC4) Only contacts made August 16, 1960, and after, count for this entity.
- 43 (E4) Only contacts made February 1, 1999, and after, count for this entity.
- 44 (4W) Only contacts made March 1, 2000, and after, count for this entity.
- 45 (FK/C) Only contacts made March 23, 2000, and after, count for this entity.
- 46 (VP6) Only contacts made November 16, 2001, and after, count for this entity.
- 47 (4O) Only contacts made June 28, 2006, and after, count for this entity.
- 48 (KH8) Only contacts made July 22, 2006, and after, count for this entity.
- 49 (FJ) Only contacts made December 14, 2007, and after, count for this entity.
- 50 (PJ2) Only contacts made starting 0400 UTC October 10, 2010, or after, count for this entity.
- 51 (PJ4) Only contacts made starting 0400 UTC October 10, 2010, or after, count for this entity.
- 52 (PJ5, 6) Only contacts made starting 0400 UTC October 10, 2010, or after, count for this entity.
- 53 (PJ7) Only contacts made starting 0400 UTC October 10, 2010, or after, count for this entity.
- 54 (Z8) Only contacts made July 14, 2011, or after, count for this entity.

^ Also 3Y, 8J1, AT0, DP0, FT8Y, LU, OR4, VK0, R1AW, VP8, ZL5, ZS1, ZX0, etc. QSL via country under whose auspices the particular station is operating. The availability of a third-party traffic agreement and a QSL Bureau applies to the country under whose auspices the particular station is operating.

Zone Notes can be found with Prefix Cross References.