



Secretariat

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**Committee on the Peaceful Uses
of Outer Space**

**Information furnished in conformity with the Convention
on Registration of Objects Launched into Outer Space**

**Note verbale dated 28 August 2008 from the Permanent Mission of
Indonesia to the United Nations (Vienna) addressed to the
Secretary-General**

The Permanent Mission of Indonesia to the United Nations (Vienna) presents its compliments to the Secretary-General of the United Nations and, in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to submit information concerning Indonesian space objects launched during the period from 1996 to 2005 (see annex).



Annex

Registration data on space objects launched by Indonesia*

1. Palapa-C2

Name of launching State:	Indonesia
Name of space object:	Palapa-C2
Date of launch:	15 May 1996
Territory or location of launch:	Guiana Space Centre, Kourou, French Guiana
Launch vehicle:	Ariane 44L
Basic orbital parameters	
Nodal period:	23 hours 55 minutes 50 seconds (geostationary)
Inclination:	0.03493 degrees
Apogee radius:	42,174.15 kilometres
Perigee radius:	42,159.23 kilometres
Geostationary orbit location:	113 degrees East
Technical information	
Mass:	1,425.68 kilograms
Payload/application:	Communications (24 C-band transponders and 4 Ku-band transponders)
Uplink frequency	
C-band:	5925-6425 MHz
Ku-band:	13790-14450 MHz
Downlink frequency	
C-band:	3700-4200 MHz
Ku-band:	10990-11650 MHz
Ground control station:	Jakarta, Indonesia
Position:	106.75370 degrees East (longitude) 6.15190 degrees South (latitude)
Operator:	PT. Indosat

* The registration data are reproduced in the form in which they were received.

2. Cakrawarta-1

Name of launching State:	Indonesia
Name of space object:	Cakrawarta-1
Date of launch:	12 November 1997
Territory or location of launch:	Guiana Space Centre, Kourou, French Guiana
Launch vehicle:	Ariane 4
Basic orbital parameters	
Nodal period:	23 hours 55 minutes 50 seconds (geostationary)
Geostationary orbit location:	107.7 degrees East
Technical information	
Mass:	1,385 kilograms
Payload/application:	Broadcasting satellite services
Uplink frequency	
X-band:	8120-8270 MHz
C-band:	5884.25 and 5885.75 MHz
Downlink frequency	
S-band:	2520-2670 MHz
C-band:	3698.75 and 3699.75 MHz
Ground control station:	Jakarta, Indonesia
Position:	106.765 degrees East (longitude) 6.192 degrees South (latitude)
Operator:	PT MCI

3. Telkom-1

Name of launching State:	Indonesia
Name of space object:	Telkom-1
Date of launch:	12 August 1999
Territory or location of launch:	Guiana Space Centre, Kourou, French Guiana
Launch vehicle:	Ariane 42P
Basic orbital parameters	
Nodal period:	23 hours 55 minutes 50 seconds (geostationary)
Inclination:	0.04 degrees
Apogee:	35,798 kilometres
Perigee:	35,777 kilometres

Geostationary orbit location:	108 degrees East
Technical information	
Mass:	2,763 kilograms
Payload/application:	Communications
Uplink frequency	5925-6705 MHz
Downlink frequency	3400-4200 MHz
Ground control station:	Cibinong, Indonesia
Position:	106.93 degrees East (longitude) 6.44 degrees South (latitude)
Operator:	PT Telkom

4. Garuda

Name of launching State:	Indonesia
Name of space object:	Garuda
Date of launch:	12 February 2000
Territory or location of launch:	Baikonur Cosmodrome, Kazakhstan
Launch vehicle:	Proton rocket Block 1 DM
Basic orbital parameters	
Nodal period:	23 hours 55 minutes 50 seconds (geostationary)
Inclination:	1.385344 degrees
Apogee radius:	42,177.780 kilometres
Perigee radius:	42,150.587 kilometres
Geostationary orbit location:	123 degrees East
Technical information	
Mass:	4,497.7 kilograms
Payload/application:	Mobile satellite services (MSS)
Uplink frequency	
C-band:	6425-6725 MHz
L-band:	1625.5-1660.5 MHz
Downlink frequency	
C-band:	3400-3700 MHz
L-band:	1525-1559 MHz
Ground control station:	Batam, Indonesia
Position:	103.95 degrees East (longitude) 1.113 degrees North (latitude)
Operator:	PT ACeS

5. Telkom-2

Name of launching State:	Indonesia
Name of space object:	Telkom-2
Date of launch:	16 September 2005
Territory or location of launch:	Guiana Space Centre, Kourou, French Guiana
Launch vehicle:	Ariane 5ECA
Basic orbital parameters	
Nodal period:	23 hours 55 minutes 50 seconds (geostationary)
Inclination:	0.05 degrees
Apogee:	35,791 kilometres
Perigee:	35,782 kilometres
Geostationary orbit location:	118 degrees East
Technical information	
Mass:	1,930 kilograms
Payload/application:	Communications
Uplink frequency	5925-6425 MHz
Downlink frequency	3700-4200 MHz
Ground control station:	Cibinong, Indonesia
Position:	106.93 degrees East (longitude) 6.44 degrees South (latitude)
Operator:	PT Telkom
