

Title: IDRП Timers

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SARPs Document Reference: 5.8.3.4.14

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SARPs Language: English

Summary of Defect: The references given for IDRП timers are incorrect. Additional recommendations on IDRП timers are proposed.

Assigned SME: K-P Graf

Proposed SARPs amendment:

5.8.3.4.14 IDRП Timer

(partial table)

| Item | Description | ISO/IEC 10747 Ref. |
|------|--------------------------------|--------------------|
| Ta | KeepAlive timer | 7.6.1.47.6.5 |
| Tr | Retransmission (tr) timer | 7.6.1.27.6.5 |
| Tmr | maxRIBIntegrityCheck timer | 7.10.2 |
| Tma | MinRouteAdvertisement timer | 7.17.3.1 |
| Trd | MinRDOriginationInterval timer | 7.17.3.2 |
| Tcw | closeWaitDelay timer | 7.6.1.57.6.4 |

Recommendation -- IDRП keepalive values should utilize initial keepalive timer values as follows:

| <u>Router Connectivity</u> | <u>Airborne/Air-Ground Capability</u> | <u>Nominal Keepalive</u> |
|--|---------------------------------------|---|
| <u>Airborne-Air/Ground</u> | <u>AMSS and/or HFDL</u> | <u>180 minutes</u> |
| <u>Air/Ground-Airborne</u> | <u>AMSS and/or HFDL</u> | <u>180 minutes</u> |
| <u>Airborne-Air/Ground</u> | <u>Mode S and/or VDL only</u> | <u>30 minutes</u> |
| <u>Air/Ground-Airborne</u> | <u>Mode S and/or VDL only</u> | <u>30 minutes</u> |
| <u>Air/Ground-Ground</u> <u>Ground-Ground</u> | <u>Ground</u> | <u>5-60 seconds (per subnetwork throughput)</u> |

Note -- Choice of Nominal Keep Alive is base on Longest Adjacency Equipage. The Leave event is the primary means of removing connectivity. A lost leave event in AMSS is trapped by the timer event, and routing tables are thus cleared.

Air-Ground BIS implementations shall implement the capability of different timer values on separate BIS-BIS connections.

Note -- ISO/IEC 10747 section 11.4 in the definition of the adjacentBISpkg-P PACKAGE requires each BIS-BIS connection to operate a separate hold and keepalive timer.

SME Recommendation to CCB: <resolve, reject, forward>

CCB Decision: