1 **APPENDIX D CDMA CONSTANTS**

2 The following tables provide values for identifiers given in the text:

3   Table D-1. Time Limits

4   Table D-2. Other Constants

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7   **Table D-1. Time Limits (Part 1 of 3)**

Time Limit	Description	Value	References
T_{1m}	Maximum time the mobile station waits for an acknowledgement	0.4 s	6.6.4.1.3.1.1
T_{2m}	Maximum time allowed for the mobile station to send an acknowledgement	0.2 s	6.6.4.1.3.1.2
T_{3m}	Period in which two messages arriving on the Forward Traffic Channel, not requiring an acknowledgement, and carrying the same sequence numbers, are considered duplicates	0.32 s	6.6.4.1.3.2
T_{4m}	Period in which two messages arriving on the same Paging Channel and carrying the same sequence numbers are considered duplicates	2.2 s	6.6.2.1.2
T_{5m}	Limit of the Forward Traffic Channel fade timer	5 s	6.4.4
T_{20m}	Maximum time to remain in the *Pilot Channel Acquisition Substate*	15 s	6.6.1.2
T_{21m}	Maximum time to receive a valid Sync Channel message	1 s	6.6.1.3
T_{30m}	Maximum time to receive a valid Paging Channel message	3 s	6.4.3
T_{31m}	Maximum time for which overhead messages arriving on the Paging Channel are considered valid	600 s	6.6.2.2
T_{32m}	Maximum time to respond to an *SSD Update Message*, *BS Challenge Confirmation Order*, and *Authentication Challenge Message*	5 s	6.6.2.4
T_{33m}	Maximum time to respond to messages received while in the *Mobile Station Idle State* (except authentication messages)	0.3 s	6.6.2.3 6.6.5.6.2.3

Table D-1. Time Limits (Part 2 of 3)

Time Limit	Description	Value	References
T_{40m}	Maximum time to receive a valid Paging Channel message before aborting an access attempt	1 s	6.4.3
T_{41m}	Maximum time to obtain updated overhead messages arriving on the Paging Channel	4 s	6.6.3.2
T_{42m}	Maximum time to receive a delayed layer 3 response following the receipt of an acknowledgement for an access probe	12 s	6.6.3.3
T_{50m}	Maximum time to obtain N_{5m} consecutive good Forward Traffic Channel frames when in the *Traffic Channel Initialization Substate*	0.2 s	6.6.4.2
T_{51m}	Maximum time for the mobile station to receive a *Base Station Acknowledgement Order* when in the *Traffic Channel Initialization Substate*	2 s	6.6.4.2
T_{52m}	Maximum time to receive a message in the *Waiting for Order Substate* that transits the mobile station to a different substate or state	5 s	6.6.4.3.1
T_{53m}	Maximum time to receive a message in the *Mobile Station Answer Substate* that transits the mobile station to a different substate or state	65 s	6.6.4.3.2
T_{54m}	Maximum time for the mobile station to send an *Origination Continuation Message* upon entering the *Conversation Substate*	0.2 s	6.6.4.4
T_{55m}	Maximum time to receive a message in the *Release Substate* that transits the mobile station to a different substate or state	2 s	6.6.4.5
T_{56m}	Default maximum time to respond to a received message or order on the Forward Traffic Channel	0.2 s	6.6.4 6.6.6
T_{57m}	Limit of the power-up registration timer	20 s	6.6.5.1.1
T_{60m}	Maximum time to execute a hard handoff involving a new frequency assignment using the same base station	0.06 s	6.6.6.2.8
T_{61m}	Maximum time to execute a hard handoff involving a new frequency assignment using a different base station	0.08 s	6.6.6.2.8

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Table D-1. Time Limits (Part 3 of 3)

Time Limit	Description	Value	References
T_{62m}	Maximum time to execute a hard handoff involving the same frequency assignment	0.02 s	6.6.6.2.8
T_{63m}	Maximum time to execute a CDMA to Analog handoff	0.1 s	6.6.6.2.9
T_{1b}	Maximum period between subsequent transmissions of an overhead message on the Paging Channel by the base station	1 s	7.6.2.2
T_{2b}	Maximum time for the base station to send a *Release Order* after receiving a *Release Order*	0.8 s	7.6.4.4
T_{3b}	Minimum time the base station continues to transmit on a code channel after sending or receiving a *Release Order*	0.3 s	7.6.4.5
T_{4b}	Maximum time for the base station to respond to a service option request when it does not support the requested service option	10 s	7.6.4.1.2.2.1

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Table D-2. Other Constants

Constant	Description	Value	References
N_{1m}	Maximum number of times that a mobile station transmits a message requiring an acknowledgement on the Reverse Traffic Channel	3	6.6.4.1.3.1.1
N_{2m}	Number of received consecutive bad Forward Traffic Channel frames before a mobile station must disable its transmitter	12	6.4.4
N_{3m}	Number of received consecutive good Forward Traffic Channel frames before a mobile station is allowed to re-enable its transmitter after disabling its transmitter	2	6.4.4 6.6.6.2.8
N_{4m}	Number of frames after the transmission of a response to a *Long CodeTransition Request Order* determining the 80ms boundary for the private long code transition	20	6.6.4 7.6.4.1.5
N_{5m}	Number of received consecutive good Forward Traffic Channel frames before a mobile station is allowed to enable its transmitter after entering the *Traffic Channel Initialization Substate* of the *Mobile Station Control on the Traffic Channel State*	2	6.6.4.2
N_{6m}	Minimum supported Active Set size	6	6.6.6.2.6.1
N_{7m}	Minimum supported Candidate Set size	6	6.6.6.2.6.2
N_{8m}	Minimum supported Neighbor Set size	20	6.6.6.2.6.3
N_{9m}	Minimum supported zone list size	7	6.6.5
N_{10m}	Minimum supported SID/NID list size	4	6.6.5