



Failure Disconnect Reasons Reference

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SMF Disconnect Reasons

This section describes the procedure failure disconnect reasons supported on SMF.

The following table provides the descriptions for the key failure disconnect reasons.

Table 1: Failure Disconnect Reasons

| Disconnect Reason | Description |
|------------------------------------|---|
| disc_chf_reconciliation | The total number of sessions released by the SMF due to CHF reconciliation. |
| disc_sess_report_erir_pdn_sess_rel | The total number of 4G or Wi-Fi sessions released by the SMF due to N4 Session Report Request from UPF with ERIR report type. If the ERIR delay timer is configured under access profile, the configured value delays the N4 Session Report Request handling. |
| disc_pdusetup_create_over_create | The total number of ongoing 5G sessions rejected by the SMF when 5G session establishment is received while handling N11SmContextCreateRequest for 5G session establishment (Create over Create case). |
| disc_pdurel_amf_init_release_404 | The total number of 5G sessions released by the SMF due to 404 response from AMF for N1N2Transfer Request during 5G session modification. |
| disc_sess_report_erir_pdn_sess_rel | The total number of 4G or Wi-Fi sessions released by the SMF due to N4 Session Report Request from UPF with ERIR report type. If the ERIR delay timer is configured under access profile, the configured value delays the N4 Session Report Request handling. |

| Disconnect Reason | Description |
|--|--|
| disc_pdusetup_create_over_create | The total number of ongoing 5G sessions rejected by the SMF when 5G session establishment is received while handling N11SmContextCreateRequest for 5G session establishment (Create over Create case). |
| disc_pdurel_amf_init_release_404 | The total number of 5G sessions released by the SMF due to 404 response from AMF for N1N2Transfer Request during 5G session modification. |
| disc_pduim_context_not_found | The total number of 5G sessions released by the SMF due to 404 response from AMF for N1N2Transfer Request during idle to active mobility and vice versa. |
| disc_pdnsetup_smf_mop_offline | The total number of 4G or Wi-Fi sessions rejected by the SMF due to Session Create received when SMF is in maintenance mode and when the offline mode configuration is set in the SMF profile or specifically for a DNN in the DNN profile. |
| disc_pdusetup_n2_setup_failed | The total number of 5G sessions rejected by the SMF when N2_PDU_SESSION_RESOURCE_SETUP_UNSUCCESS_TRANSFER is received from AMF indicating the N2 failure during 5G session establishment. |
| disc_pdusetup_n1n2_transfer_rsp_failure | The total number of 5G sessions rejected by the SMF due to N11N1N2MessageTransferFailure response from AMF during 5G session setup. |
| disc_pdnsetup_non5gcapableue_not_allowed | The total number of 4G or Wi-Fi sessions rejected by the SMF due to Session Create received without 5G InterWorking (IWK_5GS) indication and when the DNN profile is configured to support only NR capable UE by setting only-nr-capable-ue to true. |
| disc_pdnsetup_udm_sub_fetch_failed | <p>The total number of sessions rejected by the SMF due to failure in fetching the session management subscription data (sm-data) from UDM during 4G or Wi-Fi session establishment time.</p> <p>This disconnect reason is pegged in the following scenarios:</p> <ul style="list-style-type: none"> • SMF request to UDM for fetching the session management subscription data (sm-data) fails. • SMF receives failure response from UDM for SM data request. • Validation of request from UE (SSC mode, PDU session type and Snsai) fails against the subscription allowed based on UDM response. |

| Disconnect Reason | Description |
|---|---|
| disc_pdnsetup_udm_sub_fetch_resp_failed | <p>The total number of sessions rejected by the SMF due to failure in fetching the session management subscription data (sm-data) from UDM during 4G or Wi-Fi session establishment time.</p> <p>This disconnect reason is pegged in the following scenarios:</p> <ul style="list-style-type: none"> • SMF receives failure response from UDM for session management subscription data (sm-data) request. • Validation of request from UE (SSC mode, PDU session type, and Snsai) fails against the subscription allowed based on UDM response. |
| disc_pdusetup_release_over_create | The total number of 5G sessions rejected by the SMF due to 5G session release event during ongoing 5G session establishment. |
| disc_pdusetup_pdu_sess_does_not_exist | The total number of 5G sessions rejected by the SMF when SmContextCreateRequest is received with RequestType as EXISTING_PDU_SESSION during Wi-Fi to 5G handover, but the session doesn't exist with SMF. |
| disc_sess_cp_idle_time_exp_release | The total number of 4G or Wi-Fi sessions released by the SMF due to Control Plane (CP) idle timeout that started on successful session establishment. The idle timeout is configured in the DNN profile. |
| disc_sgw_ctx_failure | The total number of 4G or Wi-Fi sessions rejected by the SMF due to default flow failure caused by S-GW. |
| disc_pdnsetup_pcf_create_resp_failed | The total number of 4G or Wi-Fi sessions rejected by the SMF due to PCF Create Failure during 4G or Wi-Fi session establishment. |
| disc_gtpc_peer_pathfail | The total number of 4G or Wi-Fi sessions released by the SMF due to GTPC path failure in the network. |
| disc_pdusetup_rm_exchg_failure | The total number of 5G sessions rejected by the SMF due to IP allocation failure for the PDU session during 5G session setup. |
| disc_rel_chf_err | The total number of sessions released by the SMF due to CHF-initiated session release. |
| disc_pdnsetup_udm_reg_resp_failed | <p>The total number of sessions rejected by the SMF due to SMF registration failure with UDM during 4G or Wi-Fi session establishment time. The SMF sends registration request to UDM for storing UE context management information.</p> <p>This disconnect reason is pegged in the following scenarios:</p> <ul style="list-style-type: none"> • SMF registration request to UDM fails. • SMF receives failure response from UDM for registration request. |

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|---|--|
| disc_pdumodify_context_not_found | The total number of 5G sessions released by the SMF due to 404 response from AMF for N1N2Transfer Request during 5G session modification. |
| disc_pdusetup_sm_cxt_sess_id_err | <p>The total number of sessions rejected by the SMF when pduSessionId in 5G PDU Session Establishment Request (N11SmContextCreate Request) is either zero or not in the expected format.</p> <p>This disconnect reason is also pegged when there is no subscriber ID (SUPI or PEI) but the ueEpsPdnConnection parameter is present in the request.</p> |
| disc_pdusetup_upf_setup_rsp_failure | The total number of sessions rejected by the SMF when N4 session establishment with UPF fails during 5G session establishment time. |
| disc_pdusetup_sess_cp_idle_timeout | The total number of PDN sessions released by the SMF due to Control Plane (CP) idle timer expiry. The CP idle timer expires when there is no control plane activity within the CP idle timeout. |
| disc_pdusetup_ip_alloc_failed | <p>The total number of sessions rejected by the SMF or PGW-C when IP address allocation fails.</p> <p>This disconnect reason is pegged in the following scenarios:</p> <ul style="list-style-type: none"> • SMF service (node manager) which handles IP address allocation is down. • SMF service (node manager) couldn't allocate the IP address of the requested PDU session type. |
| disc_pdusetup_n1n2_transfer_exchg_failure | The total number of sessions rejected by the SMF when there is failure in N1N2 Transfer Request with AMF during 5G PDU session establishment. |
| disc_pdnsetup_resource_mgr_exchg_failed | The total number of sessions rejected by the SMF or PGW-C when resource manager exchange fails due to IP address allocation failure during 4G or Wi-Fi PDN connection time. |
| disc_pdusetup_pcf_create_rsp_failure | <p>The total number of sessions rejected by the SMF due to Policy Create Failure.</p> <p>This disconnect reason is pegged in the following scenarios:</p> <ul style="list-style-type: none"> • SMF receives failure from PCF for Policy Create Request during 5G session establishment. • No response from PCF for Policy Create Failure. |

| Disconnect Reason | Description |
|---|--|
| disc_pdsetup_csr_invalid | <p>The total number of Create Session Requests rejected by the SMF when Create Session Request includes invalid parameters.</p> <p>This disconnect reason is pegged in the following scenarios:</p> <ul style="list-style-type: none"> • Create Session Request with invalid parameters for new PDN connection (4G or Wi-Fi). • Create Session Request with invalid parameters in handover requests—5G to Wi-Fi HO, 4G to Wi-Fi HO, and Wi-Fi to 4G HO. |
| disc_n26_4g_5g_ho_n4_modify_failed | <p>The total number of sessions released by the SMF or PGW-C when N4 modification with UPF fails in the execution phase of 4G to 5G N26 handover.</p> <p>This disconnect reason is pegged in the following scenarios:</p> <ul style="list-style-type: none"> • N4 Modification Request failure in the execution phase of N26 HO. • SMF receives failure response from UPF for N4 modification in the execution phase of N26 HO. • SLA timeout at SMF during N4 modification in the execution phase of N26 HO. |
| disc_sess_cp_idle_time_exp_release | <p>The total number of PDN sessions released by the SMF or PGW-C due to Control Plane (CP) idle timer expiry. The CP idle timer expires when there is no control plane activity within the CP idle timeout.</p> |
| disc_pdsetup_dnn_not_supported_in_slice | <p>The total number of sessions rejected by the SMF where the 5G PDU Session Establishment Request (N11smContextCreate) received from AMF contains DNN which is not supported in the requested network slice.</p> |
| disc_pdsetup_udm_reg_failed | <p>The total number of sessions rejected by the SMF due to SMF registration failure with UDM during 5G session establishment time. The SMF sends registration request to UDM for storing UE context management information.</p> <p>This disconnect reason is pegged in the following scenarios:</p> <ul style="list-style-type: none"> • SMF registration request to UDM fails. • SMF receives failure response from UDM for registration request. |
| disc_pdurel_db_conflict | <p>The total number of sessions released by the SMF due to internal issue related to the database conflict.</p> |

| Disconnect Reason | Description |
|---|--|
| disc_pdusetup_udm_sub_fetch_resp_failed | <p>The total number of sessions rejected by the SMF due to failure in fetching the session management subscription data (sm-data) from UDM during 5G session establishment time.</p> <p>This disconnect reason is pegged in the following scenarios:</p> <ul style="list-style-type: none"> • SMF receives failure response from UDM for session management subscription data (sm-data) request. • Validation of request from UE (SSC mode, PDU session type and Snsai) fails against the subscription allowed based on UDM response. |
| disc_pdusetup_udm_sub_fetch_failure | <p>The total number of sessions rejected by the SMF due to failure in fetching the session management subscription data (sm-data) from UDM during 5G session establishment time.</p> <p>This disconnect reason is pegged in the following scenarios:</p> <ul style="list-style-type: none"> • SMF request to UDM for fetching the session management subscription data (sm-data) fails. • SMF receives failure response from UDM for SM data request. • Validation of request from UE (SSC mode, PDU session type, and Snsai) fails against the subscription allowed based on UDM response. |