简述

- 再次对sms相关协议学习中遇到的问题与导师沟通和解决
- 确定下一步的计划

  1. 观看导师的jira，学习具体的问题处理方式
  2. LTE的机制和流程
  3. RCS

记录

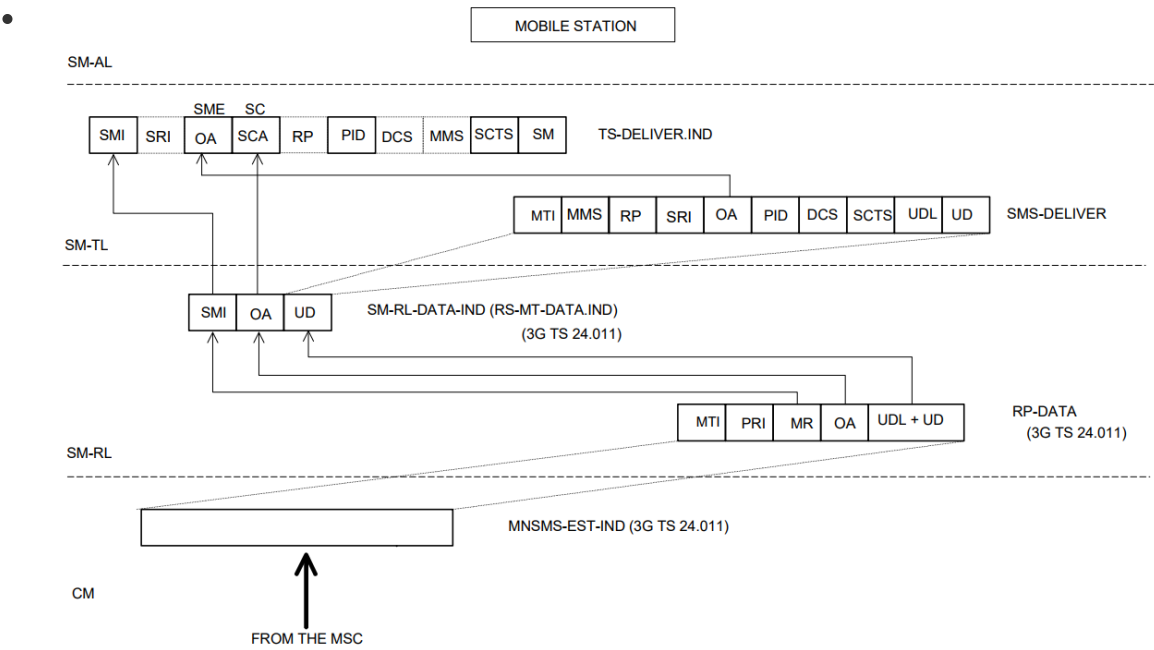## Short message information flow

MT

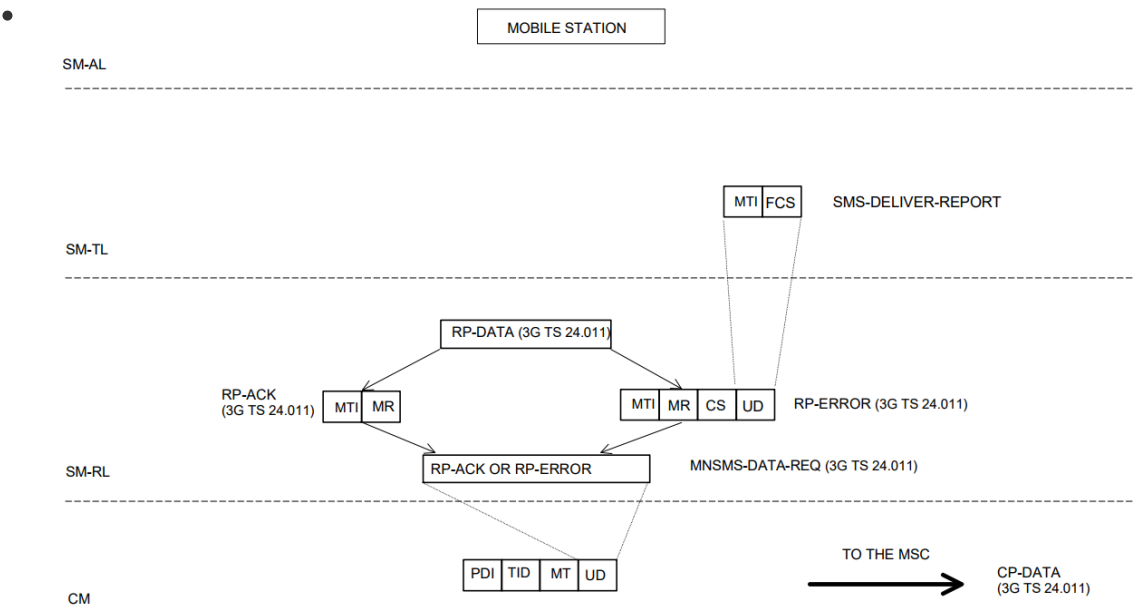Figure C.4: Mobile terminated short message
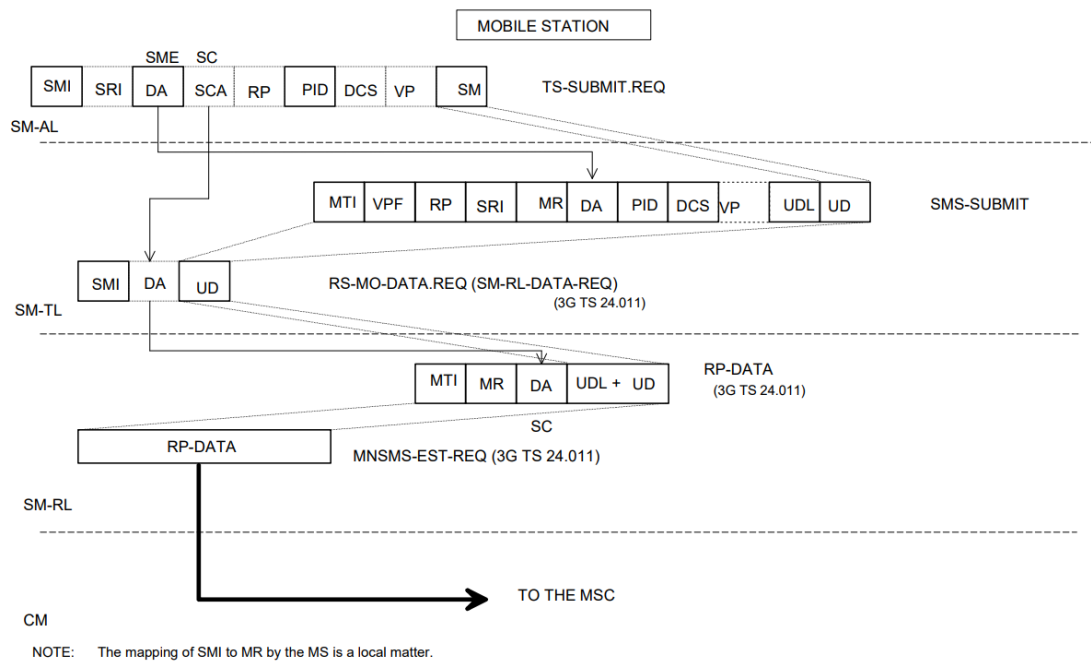

Figure C.5: Acknowledgement in the MT case

MO

Figure C.9: Mobile originated short message

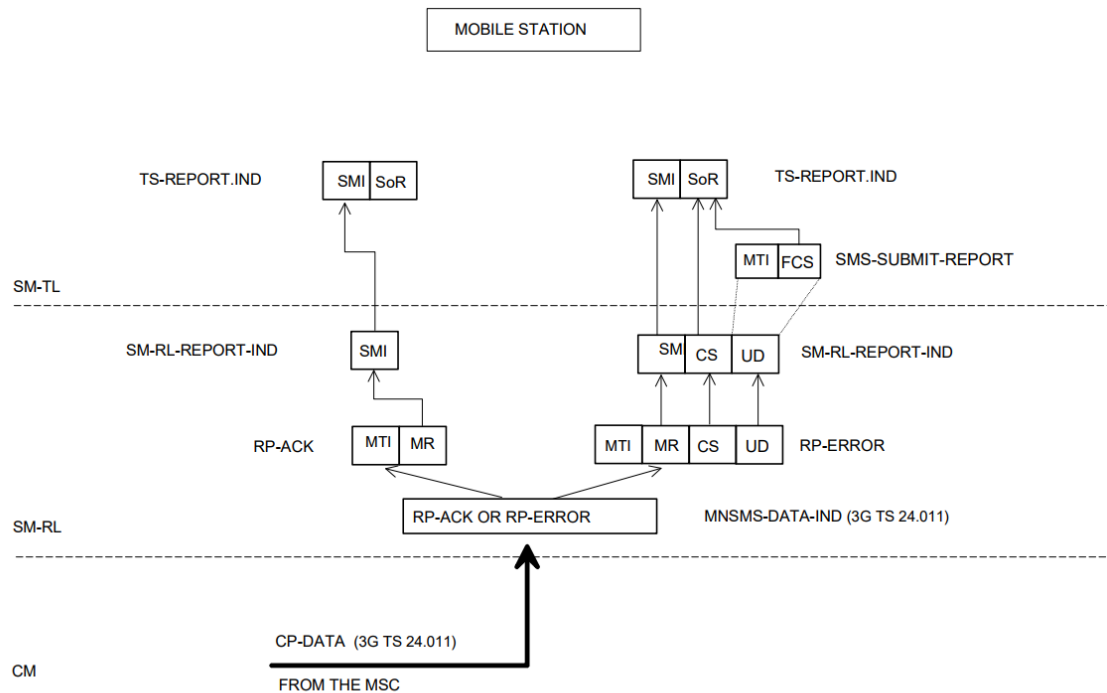NOTE: The mapping of SMI to MR by the MS is a local matter.

Figure C.16: Acknowledgement in the MO case

缩写

- SMR   Short Message Relay (entity)
- SMC   Short Message Control (entity)
- CM- sub   Connection Management sublayer
- SM- CP   Short Message Control Protocol
- MM- sub   Mobility Management sublayer
- GMM-sub   GPRS Mobility Management sublayer
- RR- sub   Radio Resource Management sublayer
- LLC-sub   Logical Link Control sublayer
- GRR-sub   GPRS Radio Resource sublayer in GSM

EMM-sub   EPS Mobility Management sublayer
5GMM-sub   5G Mobility Management sublayer

Service provided by the CM- sublayer

- In order to support the Short Message Service, the CM- sublayer provides services to the Short Message Relay Layer.

- MNSMS service primitives on the MS-side

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SERVICE PRIMITIVES		PARAMETER
NAME	TYPE	
MNSMS-ABORT	Req	Cause
MNSMS-DATA-	Req	MO RPDU
MNSMS-DATA-	Ind	MT RPDU
MNSMS-EST-	Req	MO RPDU
MNSMS-EST-	Ind	MT RPDU
MNSMS-ERROR	Ind	Cause
MNSMS-REL	Req	Cause

  - MNSMS- ABORT- REQuest: A request from an SMR entity to release a CM- connection in abnormal cases.

  - MNSMS- DATA- REQuest: A request from an SMR entity to send a RPDU on the established CM- connection.

  - MNSMS- DATA- INDication: An indication used by the SMC entity to pass the user information element (RPDU) of a received CP- DATA message to SM- RL.

  - MNSMS- ESTablish- REQuest: A request from an SMR entity to establish a CM- connection. The request contains a RP- DATA UNIT as a parameter.

    - establishment of a CM- connection for this SMR entity;
    - forming of the CP- DATA message containing the RPDU; and
    - passing of CP- DATA to the MM- sublayer.

  - MNSMS- ESTablish- INDication: An indication used by the SMC entity to pass the SM- user information (RPDU) of a received CP- DATA message to SM- RL. It implies completion of the establishment of the CM- connection for this SMR entity.

Service provided by SM- RL

- In order to support the Short Message Service, the Short Message Relay Layer provides services to the Short Message
  Transfer Layer.

- Definition of primitives on the MS side

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SERVICE PRIMITIVES	PARAMETER	

SERVICE PRIMITIVES	PARAMETER	
NAME	TYPE	
SM-RL-DATA-	Req	MO SMSTPDU
SM-RL-DATA-	Ind	MT SMSTPDU
SM-RL-MEMORY AVAILABLE	Req	See subclause 3.3.1.3
SM-RL-REPORT-	Req	See subclause 3.3.1.4
SM-RL-REPORT-	Ind	See subclause 3.3.1.5

- SM- RL- DATA- REQuest : A request from the SM- TL entity to pass the SMS- TPDU and necessary control information to SM- RL

  - establishment of an SM- RL connection for MO message transfer;
  - forming of the RP- DATA message, containing the SMS- TPDU;
  - transfer of the RP- DATA message as an RPDU in an MNSMS- EST- Req.

- SM- RL- DATA- INDication : An indication used by the SMR entity to pass the SMS- TPDU and necessary control information of a received RP- DATA message to SM- TL.