# **Supplementary Service Commands TRM240**

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# **Supplementary Related Commands**

#### AT+CCFC Call Forwarding Number and Conditions Control

The command allows control of the call forwarding supplementary service according to 3GPP TS 22.082. Registration, erasure, activation, deactivation and status guery are supported

## **AT+CCWA Call Waiting Control**

The command allows control of the call waiting supplementary service according to 3GPP TS 22.083. Activation, deactivation and status query are supported.

### **AT+CHLD Call Related Supplementary Services**

The command allows the control of the following call related services:

- A call can be temporarily disconnected from the MT but the connection is retained by the network;
- Multiparty conversation (conference calls);
- The served subscriber who has two calls (one held and the other either active or alerting) can connect the other parties and release the served subscriber"s own connection.

#### **AT+CLIP Calling Line Identification Presentation**

The command refers to the GSM/UMTS supplementary service CLIP (Calling Line Identification Presentation) that enables a called subscriber to get the calling line identity (CLI) of the calling party when receiving a mobile terminated call.

#### **AT+CLIR Calling Line Identification Restriction**

AT+CLIR refers to the CLIR supplementary service (Calling Line Identification Restriction) according to 3GPP TS 22.081 and the OIR supplementary service (Originating Identification Restriction) according to 3GPP TS 24.607 that allows a calling subscriber to enable or disable the presentation of the calling line identity (CLI) to the called party when originating a call.

#### **AT+COLP Connected Line Identification Presentation**

The command refers to the GSM/UMTS supplementary service COLP (Connected Line Identification Presentation) that enables a calling subscriber to get the connected line identity (COL) of the called party after setting up a mobile originated call. The command enables or disables the presentation of the COL at the TE. It has no effect on the execution of the supplementary service COLR in the network.

#### AT+CSSN Supplementary Service Notifications

The command refers to supplementary service related network initiated notifications. The Write Command enables/disables the presentation of notification result codes from TA to TE.

# AT+CUSD Unstructured Supplementary Service Data

The command allows control of the Unstructured Supplementary Service Data (USSD) according to 3GPP TS 22.090. Both network and mobile initiated operations are supported.

Parameter **<mode>** is used to disable/enable the presentation of an unsolicited result code. The value **<mode>**=2 is used to cancel an ongoing USSD session. For an USSD response from the network, or a network initiated operation, the format is: **+CUSD**: **<status>**[, **<rspstr>**,[**<dcs>**]].

When **<reqstr>** is given, a mobile initiated USSD string or a response USSD string to a network initiated operation is sent to the network. The response USSD string from the network is returned in a subsequent **+CUSD** URC.