Notification of the National Telecommunications Commission

On Technical Standards for Telecommunication Equipment

Re: Radiocommunication Equipment for Digital Trunked Radio System in the Land Mobile Service

The National Telecommunications Commission has a policy of setting technical standards for the telecommunication

equipment which is used widely and internationally to keep pace with current technological circumstances, so that the

telecommunication equipment would objectively meet technical requirements, be able to operate without causing interference,

and without undesired effects on the telecommunication networks or services, as well as to ensure consumer protection, for the

benefits of the overall telecommunication industry and in order that the national technical standards are harmonized with

international standards.

Pursuant to Section 51 (6) and Section 78 paragraph one of the Act on the Organization to Assign Radio Frequency and

to Regulate the Broadcasting and Telecommunication Services B.E. 2543 (2000), and Section 32 paragraph one of the

Telecommunications Business Act B.E. 2544 (2001), together with Section 29 (4) of the Radiocommunications Act B.E. 2498

(1955), and its amendments, the National Telecommunications Commission at its Meeting No. 41/2549 on 29 November B.E.

2549 (2006), approved for the issuance of the Notification on Technical Standards for Telecommunication Equipment regarding

Radiocommunication Equipment for Digital Trunked Radio System in the Land Mobile Service, as detailed in the Standard No.

NTC TS 1009-2549 appended hereto.

This Notification shall come into force from the date of its publication in the Government Gazette.

Issued on the 28th day of December B.E. 2549 (2006)

General Choochart Promphrasid

Chairman of the National Telecommunications Commission



Technical Standards for Telecommunication Equipment

NTC TS 1009 - 2549

Radiocommunication Equipment for Digital Trunked Radio System

In the Land Mobile Service

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Technical Standards for Telecommunication Equipment:

Radiocommunication Equipment for Digital Trunked Radio system In the Land Mobile Service

1. Scope

This technical standard specifies the minimum technical characteristics for radiocommunication equipment for digital trunked radio system in the land mobile service used as the base station (BS) and the mobile station (MS) in the frequency ranges of 380 - 400 MHz, 421.8 - 422.95/433.8 - 434.95 MHz, 484 - 489/494 - 499 MHz, and 806 - 824/851 - 869 MHz.

2. Technical Requirements

2.1 Radio frequency requirements

The radio frequency requirements for transmitters and receivers of the radiocommunication equipment for digital trunked radio system in the land mobile service shall comply with one or more of the following standards:

2.1.1 ETSI EN 300 392-2 : Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 2:

Air Interface (AI)

2.1.2 ETSI EN 300 396-2: Terrestrial Trunked Radio (TETRA); Technical requirements for

Direct Mode Operation (DMO); Part 2: Radio aspects

2.1.3 ETSI EN 303 035-1: Terrestrial Trunked Radio (TETRA); Harmonized EN for TETRA

equipment covering essential requirements under Article 3.2 of

the R&TTE Directive; Part 1: Voice plus Data (V+D)

2.1.4 ETSI EN 303 035-2: Terrestrial Trunked Radio (TETRA); Harmonized EN for TETRA

equipment covering essential requirements under Article 3.2 of

the R&TTE Directive; Part 2: Direct Mode Operation (DMO)

2.1.5 ANSI/TIA-102.CAAB-B: Project 25 Land Mobile Radio Transceiver Recommendations,

Project 25 - Digital Radio Technology, C4FM/CQPSK Modulation

NTC TS 1009 - 2549 page 1 of 2

2.2 Electrical safety requirements

The electrical safety requirements for the radiocommunication equipment for digital trunked radio system in the land mobile service shall comply with one or more of the following standards:

2.2.1 IEC 60950 - 1 : Information technology equipment – Safety - Part 1: General

requirements

2.2.2 TISI 1561 - 2548 : Information technology equipment – Safety: General requirements

2.3 Radiation exposure requirements

The installation of base stations and the use of mobile stations of the radiocommunication equipment for digital trunked radio system in the land mobile service shall comply with the radiation exposure requirements set forth by the National Telecommunications Commission.

NTC TS 1009 - 2549 page 2 of 2