



Introduction

UIC/ERIG has established formalised testing and approval requirements for GSM-R elements to ensure that the EIRENE specifications are met.

These standards are used as a basis for the formal Norwegian approval process, which has been conducted since the start of 2006. Type Approvals are granted to allow products access to the national GSM-R network.

Prerequisites

EC Declaration of Conformity documentation must be presented before the approval process can begin; this includes CE-mark, environmental requirements, EMC and ETSI compliance.

Providing documents proving the product is in regular use in one or more GSM-R networks is considered to be an advantage.

Requirements

A specification for terminals to be used in the Norwegian GSM-R network, JBV Nett, has been compiled. This specification was also used in the first phase of the network rollout project. The current specification has undergone changes and continues to be revised.

To perform the approval process, a minimum of two terminals must be made available for JBV Nett. The terminals must be of the same type and version as those that will be set in operation.

JBV Nett requires a contact person during the approval process. This person shall have access to relevant technical resources that, without undue delay, can give qualified answers or clarification to technical matters.

Documentation

Approvals will be based on test results and a review of product documentation. As a minimum, the following or similar documents must be disclosed:

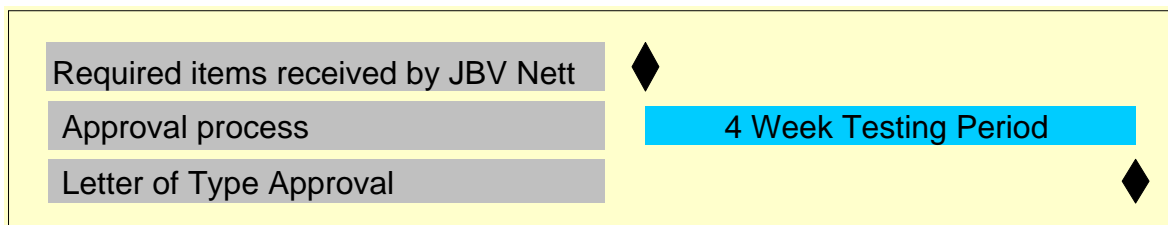
- Documentation showing EC declaration of conformity regarding;
 - Directive 96/48/EC – Interoperability of the Trans-European High-Speed Rail System
 - Directive 99/05/EC – Radio and Telecommunications Terminal Equipment
- Compliance with the current version of EIRENE System Requirements Specification (SRS) and EIRENE Functional Requirements Specification (FRS).
- If approved for use in another GSM-R network:
 - Requirement specification of mobile stations in that/those particular network(s)
 - Approval documentation
 - Approval certificate
 - Number of terminals in regular use
 - Functions in regular use



- User guide
- Installation guide
- Commissioning guide
- Technical specification and description
- Functional description
- Document list, including certificates
- List over equipment, type and software version, submitted for the test

Approval process

The approval process will be assigned a testing period after all required items have been submitted to JBV Nett and all necessary resources are available. JBV Nett will then perform the appropriate tests and documentation reviews during a period of 4 weeks.



In the case where problems cannot be solved immediately, a new testing period will need to be assigned for the continuation of the approval process.

Costs

A charge applies for taking a product through an approval process. Fees will be based on current rates. The party applying for the approval will additionally be required to cover shipping and other direct costs related to the approval process.

Result

Provided that the product passes JBV Nett's tests and document reviews, a Letter of Type Approval will then be issued, valid for a limited time.