

## **Service for Legal Traceability of Length for Electronic Distance Measurement Equipment**

### **Policy**

**SIG/2013/395**

**Version 1.06**

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## Version History

Version	Date	Description/Comments
1.00	13/12/2010	Replacing former NRM Policy: PBO/900/109
1.01	15/02/2012	Change title of document and amend document to reflect terminology currently used.
1.02	06/08/2013	Rebranding due to departmental name change. No changes to policy content.
1.03	25/02/2015	Updating policy to reflect current legislation. Approved by Manager, Geodesy and Positioning.
1.04	16/11/2016	Reviewed and converted to new template. No changes to policy content.
1.05	07/02/2019	Rebranded to new template due to departmental name change.
1.06	08/03/2024	Rebranded to new template due to departmental name change. Update to ISO standard referenced throughout document.

## Approval

Position	Name	Date
Assistant Director-General, Land and Indigenous Services	Chris Robson	08/12/2010
Director of Surveys	Ken Sherwood	08/03/2024

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# 1 Purpose

To provide a service that gives legal traceability of length to the national standard for distance measurements made using electronic distance measurement equipment (EDME).

# 2 Rationale

Section 20 of the *Survey and Mapping Infrastructure Regulation 2014* requires surveyors to ensure their equipment is standardised. The department therefore offers a service to enable surveyors to validate the traceability of their equipment to the national standards. The service is based on the department being appointed as a verifying authority for length under the provisions of the *National Measurement Act 1960* (Cth).

The department is formally appointed as a verifying authority for length by the National Measurement Institute (NMI). As a prerequisite for appointment as a verifying authority, the department is assessed for its technical competence in providing calibration services by the

National Association of Testing Authorities (NATA), in accordance with the requirements of *AS ISO/IEC 17025:2018 General Requirements for the Competence of Testing and Calibration Laboratories*.

# 3 Procedure

The department will maintain its appointment as a verifying authority for length with the National Measurement Institute.

The department will continue to provide and maintain the infrastructure and procedures that are necessary for the community to achieve legal traceability for their EDME. This will be carried out through two services:

## 3.1 Baseline Calibration

The department will maintain certification of approved baselines, in accordance with Regulation 13 of the National Measurement Regulation 1999 (Cth). The department may certify any approved non-departmental baselines and reserve the right to recover costs.

The department will respond accordingly to reported instability or disturbance to the monuments of approved baselines.

## 3.2 EDME Traceability

The department will ensure that both the approved software and the recommended procedures are made available to the community for the purposes of achieving traceability of length for EDME.

# 4 Definitions

**EDME** - electronic distance measurement equipment

**NATA** - National Association of Testing Authorities

**NMI** - National Measurement Institute

## 5 Legislation

*Survey and Mapping Infrastructure Regulation 2014*

*National Measurement Act 1960 (Cth)*

## 6 Keywords

SIG/2013/395; Service for Legal Traceability of Length for Electronic Distance Measurement Equipment; Calibration; national standards; certification; legal traceability; electronic distance measurement equipment