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TECHNICAL REPORT

**Dynamic modules –
Part 6-7: Design guide – Optical channel monitor**

INTERNATIONAL
ELECTROTECHNICAL
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CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references	6
3 Terms, definitions and abbreviations	6
3.1 Terms and definitions.....	6
3.2 Abbreviations.....	6
4 Existing standards	7
5 The role of optical channel monitors in dynamic optical networks	7
5.1 General.....	7
5.2 Signal performance monitoring and fault isolation	8
5.3 Channel inventory and routing management	8
5.4 Dynamic channel power self-management	8
6 Review of optical channel monitor technologies.....	9
6.1 General.....	9
6.2 Spatial wavelength dispersion and focal plane array detection	10
6.2.1 General	10
6.2.2 Spatial wavelength dispersion technologies	10
6.2.3 One-dimensional focal plane arrays.....	10
6.2.4 Signal processing capabilities.....	10
6.3 Dedicated photodiode per demultiplexed wavelength	11
6.3.1 General	11
6.3.2 Demultiplexer technologies.....	11
6.3.3 Photodetector technologies	11
6.3.4 Signal processing capabilities.....	11
6.4 Tuneable filter and single photodiode element	11
6.4.1 General	11
6.4.2 Tuneable filter technologies.....	11
6.4.3 Photodetector technology	12
6.4.4 Signal processing capabilities.....	12
7 Monitoring parameters.....	12
7.1 General.....	12
7.2 Channel identification	12
7.3 Channel power.....	13
7.4 Total power (composite power)	13
7.5 Channel frequency.....	13
7.6 Optical signal to noise ratio (OSNR).....	13
8 Practical considerations in preparation for standardizing optical channel monitor specifications.....	14
8.1 General.....	14
8.2 All-inclusive vs. break-out approaches to the specification	14
8.2.1 General	14
8.2.2 All-inclusive approach to the optical channel monitor specification.....	14
8.2.3 Break-out approach to the optical channel monitor specification	14
8.3 Integration bandwidth discussion	15
8.3.1 General	15
8.3.2 Performing measurements referenced to the OSA	15

8.3.3	Fundamental filter bandwidth limitation	15
8.3.4	Integration bandwidth selection as a function of bit rate and modulation format.....	15
9	Summary	15
	Bibliography.....	16
	Figure 1 – Fraction of the optical power in the multi-wavelength transmission line tapped and fed to the input of an optical channel monitor for spectral analysis	9
	Figure 2 – Optical channel monitors – Three broad architecture categories.....	9
	Table 1 – High level comparison of optical channel monitor and optical performance monitor features.....	8

INTERNATIONAL ELECTROTECHNICAL COMMISSION

DYNAMIC MODULES –

Part 6-7: Design guide – Optical channel monitor

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IEC 62343-6-7, which is a technical report, has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
86C/1252/DTR	86C/1274B/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of IEC 62343 series, published under the general title *Dynamic modules*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

DYNAMIC MODULES –

Part 6-7: Design guide – Optical channel monitor

1 Scope

This part of IEC 62343, which is a technical report, describes optical channel monitor modules, one of several important classes of dynamic modules that are used in dynamic optical networks. This report includes a description of the necessity of optical channel monitors, specifically in the context of dynamic optical networks, and how this is driving feature and performance requirements. This technical report surveys the different categories of optical channel monitor technologies that are being used and highlights some of their unique characteristics. Also described are different possible approaches for characterizing and specifying the performance of optical channel monitor modules.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 62343, *Dynamic modules – General and guidance*

ITU-T Recommendation G.697, *Optical monitoring for dense wavelength division multiplexing systems*