

American Dental Association
Technical Report No. 1075

Electronic Orthodontic Dental Laboratory Prescriptions

This is a preview of "ADA TR 1075-2015". [Click here to purchase the full version from the ANSI store.](#)

**AMERICAN DENTAL ASSOCIATION TECHNICAL REPORT NO. 1075 FOR ELECTRONIC
ORTHODONTIC DENTAL LABORATORY PRESCRIPTIONS**

The Council on Dental Practice of the American Dental Association has approved American Dental Association Technical Report No. 1075 for Content of Electronic Orthodontic Dental Laboratory Prescriptions. Working Groups of the ADA Standards Committee on Dental Informatics (SCDI) formulate this and other specifications and technical reports for the application of information technology and other electronic technologies to dentistry's clinical and administrative operations. The ADA SCDI has representation from appropriate interests in the United States in the standardization of information technology and other electronic technologies used in dental practice. The ADA SCDI confirmed approval of ADA Technical Report No. 1075 on July 10, 2015.

The ADA Standards Committee on Dental Informatics thanks the members of Working Group 10.9 on Dissemination of Dental Laboratory Prescriptions and the organizations with which they were affiliated at the time the specification was developed:

James McLees (chairman), National Association of Dental Laboratories, Kent, WA;
Scott D. Benjamin, Advanced Integration & Mentoring Inc., Hancock, NY;
Richard M. Celko, P & R Dental Strategies, Inc., New York, NY;
Zachary Church, Henry Schein Practice Solutions, American Fork, UT;
Carla Evans, University of Illinois Chicago, IL;
John Grubb, American Board of Orthodontics, Escondido, CA;
Mohamednazar Harunani, private practice, Rockford, IL;
Jean Narcisi, American Dental Association, Chicago, IL;
Paul A. Reggiardo, private practice, Huntington Beach, CA;
Michael J. Selberis, Glidewell Laboratories, Newport Beach, CA;
Scott A. Trapp, Health Resources and Services Administration, Kansas City, MO ; and
Patricia Van Dyke, Moda Health, Portland, OR.

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FOREWORD

(This foreword does not form a part of American Dental Association Technical Report No. 1075 for Electronic Orthodontic Dental Laboratory Prescriptions).

In 1992, there was interest in the standardization of clinical information systems related to electronic technology in the dental environment. After evaluating current informatics activities, a Task Group of the ANSI Accredited Standards Committee MD156 (ASC MD156) was created by the ADA to initiate the development of technical reports, guidelines, and standards on electronic technologies used in dental practice. In 1999, the ADA established the ADA Standards Committee on Dental Informatics (SCDI). The ADA SCDI is currently the group that reviews and approves proposed American National Standards (ANSI approved) and technical reports developed by the standards committee's working groups. The ADA became an ANSI accredited standards organization in 2000.

The scope of the ADA SCDI is:

"The ADA SCDI shall develop informatics standards, specifications, technical reports and guidelines and interact with other entities involved in the development of health informatics standards aimed at implementation across the dental profession."

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SCOPE

The scope of this technical report is to present the types of data and electronic format necessary to be included on an electronic orthodontic dental laboratory prescription. The goal of this report is to address the need for electronic transmission of patient information from the orthodontic provider to the outsourced dental laboratory with the necessary security and interoperability.

INTRODUCTION

The Internet has proven to be an effective means of communication. Therefore, providing necessary prescriptions in electronic format is the next step in securing a patient's data and providing restoration specific information, including required materials, procedures and protocols to accompany off site restoration fabrication including electronic impressions.

Because of the personal and private nature of health records, the dental practitioner needs to understand the security issues associated with "data at rest" and "data in transit." This paper is not intended to explain security concepts and the risks associated with the maintenance of data in storage and transit, and over an internet connection. The ADA Standards Committee on Dental Informatics (ADA SCDI) has published a series of technical reports that provide dental practitioners with guidelines in addressing issues of security of data in storage and transmission over the Internet.¹⁻⁵

This technical report provides additional guidelines for the format, content and security of patient data disseminated offsite to the outsourced dental laboratory. The recommendations provided herein are designed to be technology-neutral and to be scalable to address the needs of both large and small facilities.

This document may provide information regarding legal implications of the security and privacy regulations. This document does not provide legal advice and covered entities must work with their legal staff to address appropriate requirements. This document may serve as a tool to expedite an understanding of the necessary legal actions needed to address requirements, as well as federal and state legislation, as security and privacy has an impact on many aspects of dentistry.

REFERENCED STANDARDS

The following documents contain provisions that, through reference in this text, constitute provisions of this document.

ADA Technical Report No. 1041 for Content of Electronic Laboratory Prescriptions

ISO 3950 – Dentistry-Designation System for Teeth and Areas of the Oral Cavity

(ADA Technical Reports and ISO dental standards are available from the American Dental Association, Department of Standards, 211 E. Chicago Ave., Chicago, IL 60611 or <http://catalog.ada.org>)

AAO Glossary

(Available from the American Association of Orthodontists, 401 N. Lindbergh Blvd. St. Louis, MO 63141 or www.aaoinfo.org)

Digital Imaging and Communications in Medicine (DICOM)

(Available from the National Electrical Manufacturers Association, 1300 N. 17th St., Rosslyn, VA 22209 or <http://dicom.nema.org>).

HL7 Version 2

(Available from Health Level Seven (HL7), 3300 Washtenaw Ave., Suite 227, Ann Arbor, MI 48104 or www.hl7.org).