Electronic Prescriptions for Controlled Substances Clarification

AGENCY: Drug Enforcement Administration (DEA), Department of Justice.

ACTION: Clarification and Notification.

SUMMARY: DEA wishes to emphasize that third-party audits of software applications for Electronic Prescriptions for Controlled Substances (EPCS) must encompass all applicable requirements as described herein, including security, and must address “processing integrity.” Likewise, where questions or gaps may arise in reviewing a particular application, DEA recommends consulting federal guidelines set forth in NIST Special Publication 800-53A. DEA is also announcing the first DEA approved certification process for EPCS. Certifying organizations with a certification process approved by DEA are posted on DEA’s website once approved.

FOR FURTHER INFORMATION, CONTACT: Imelda L. Paredes, Office of Diversion Control, Drug Enforcement Administration, 8701 Morrissette Drive, Springfield, Virginia 22152; Telephone (202) 307-7165.

SUPPLEMENTARY INFORMATION:

Background

The Drug Enforcement Administration (DEA) is a component of the Department of Justice and is the primary agency responsible for coordinating the drug law enforcement activities of the United States. DEA also assists in the implementation of the President’s
National Drug Control Strategy. The diversion control program (DCP) is a strategic component of the DEA’s law enforcement mission. It is primarily the DCP within DEA that implements and enforces Titles II and III of the Comprehensive Drug Abuse Prevention and Control Act of 1970, often referred to as the Controlled Substances Act (CSA) and the Controlled Substances Import and Export Act (CSIEA) (21 U.S.C. 801-971), as amended (hereinafter, “CSA”).¹ DEA drafts and publishes the implementing regulations for these statutes in Title 21 of the Code of Federal Regulations (CFR), Parts 1300 to 1321. The CSA together with these regulations are designed to establish a closed system for controlled substances and to prevent, detect, and eliminate the diversion of controlled substances and listed chemicals into the illicit market while ensuring a sufficient supply of controlled substances and listed chemicals for legitimate medical, scientific, research, and industrial purposes.

The CSA and DEA’s implementing regulations establish the legal requirements for possession and dispensing of controlled substances, most notably pursuant to a prescription issued for a legitimate medical purpose by a practitioner acting in the usual course of professional practice. “The responsibility for the proper prescribing and dispensing of controlled substances is upon the prescribing practitioner, but a corresponding responsibility rests with the pharmacist who fills the prescription.” 21 CFR 1306.04(a). A prescription serves both as a record of the practitioner’s determination of the legitimate medical need for the drug to be dispensed, and as a record of the dispensing, providing the pharmacy with the legal justification and authority to dispense the medication prescribed by the practitioner. The prescription also provides a record of the actual dispensing of the controlled substance to the ultimate user (the patient) and, therefore, is critical to documenting that controlled substances held by a pharmacy have been dispensed legally. The maintenance by pharmacies of complete and accurate

¹ The Attorney General’s delegation of authority to DEA may be found at 28 CFR 0.100.
prescription records is an essential part of the overall CSA regulatory scheme established by Congress.

**Electronic Prescriptions for Controlled Substances (EPCS)**

Historically, where federal law required that a prescription for a controlled substance be issued in writing, that requirement could only be satisfied through the issuance of a paper prescription. Given advancements in technology and security capabilities for electronic applications, DEA recently amended its regulations to provide practitioners with the option of issuing electronic prescriptions for controlled substances (EPCS) in lieu of paper prescriptions. Efforts to develop EPCS have been underway for a number of years. DEA’s Interim Final Rule for Electronic Prescriptions for Controlled Substances was published on March 31, 2010 at 75 FR 16236-16319 and became effective on June 1, 2010. While these regulations have paved the way for controlled substance prescriptions to be issued electronically, not all States have authorized electronic prescriptions for controlled substances, particularly Schedule II controlled substances which have a significant potential for abuse.

The information technology industry is currently in the process of developing and testing applications to implement the requirements set forth in the Interim Final Rule. As this process continues, DEA believes it prudent to issue the following clarifications, recommendation, and update to help ensure that the requirements of the Interim Final Rule are properly implemented. Specifically, DEA is clarifying that third-party audits must be conducted by qualified persons and must determine that an application meets all of the applicable requirements in 21 CFR Part 1311 as well as other requirements referenced in Part 1311. “Processing integrity” must be addressed in audits of EPCS applications. DEA recommends that federal guidelines as set forth by the National Institute of Standards and Technology (NIST), including NIST Special...
Publication 800-53A, be consulted where questions arise. DEA has also announced an approved certification process for EPCS applications and has posted this information on its website. DEA notes its concern that proposed EPCS applications receive careful review prior to being used to create, sign, transmit or process controlled substance prescriptions so as to ensure the closed system for controlled substances established by the CSA. Secure and safe dispensing of controlled substances is necessary to protect the public interest and prevent diversion of controlled substances to illicit purposes. As with any violations of the CSA or DEA’s implementing regulations, if diversion occurs in the EPCS environment, or if controlled substances are otherwise dispensed in violation of the EPCS regulations, those responsible may be subject to administrative and/or judicial action, to include civil injunction.

Current Issues

National Prescription Drug Abuse Epidemic

Implementation of electronic prescriptions for controlled substances is occurring at the same time the President has declared current prescription drug misuse and abuse as an epidemic constituting a major public health and public safety crisis.² The non-medical use of prescription drugs is on the rise in the United States. Drug induced deaths now exceed motor vehicle accident deaths in the United States.³ According to the “Drug Abuse Warning Network (DAWN), 2009: National Estimates of Drug-Related Emergency Department Visits,” the Substance Abuse and Mental Health Services Administration (SAMHSA),⁴ emergency department visits involving non-medical use of pharmaceuticals (misuse or abuse) almost

doubled between 2004 and 2009 from 627,291 in 2004 to 1,244,679 visits in 2009 (a 98.4 percent increase).5 About half of the 2009 emergency department visits related to abuse or misuse of pharmaceuticals involved painkillers and more than one-third involved drugs to treat insomnia and anxiety.6

The 2009 National Survey on Drug Use and Health (NSDUH)7 estimated that 7.0 million persons used prescription-type psychotherapeutic drugs – pain relievers, anti-anxiety medications, stimulants, and sedatives – non-medically. This represents 2.8 percent of the population aged twelve or older. These estimates were 13 percent higher than those from the 2008 Survey. In 2009, 2.2 million persons aged twelve or older used pain relievers non-medically for the first time; that averages to over 6,000 new users per day. Teenagers (grades 9-12) believe that prescription drugs are easier to obtain than illegal drugs. There is a concern that young people may perceive prescription and/or over-the-counter drugs as “safer” than illegal drugs because of their intended, legitimate medical use.8

Increased Security Breaches

Cyber attacks are growing in frequency, size and complexity and are of concern as EPCS goes online. Responses by 583 U.S. businesses of all sizes to a recent independent survey conducted by the Ponemon Institute released June 22, 2011 found that 90 percent had at least one cyber security breach in the past 12 months. This survey found that the top two endpoints from which these security breaches occurred are employees’ laptop computers and employee’s mobile

5 Id. at 4.
6 Id. at 3.
devices. Numerous recent news articles describe incidents of major security breaches or hacking incidents into major U.S. private and government computer systems, including incidents involving electronic health records. These incidents occur for many reasons, but access to controlled substances has not been cited as an objective because such substances have not been communicated via an electronic system. With the impending implementation of electronic prescriptions for controlled substances, DEA wishes to reiterate that adequate security of EPCS has been and continues to be a primary consideration in any electronic system used to communicate a legitimate controlled substance prescription for the purpose of dispensing to an ultimate user.

Clarifications

DEA wishes to provide the following clarifications.

Third-party Audits of EPCS Applications

EPCS, as with paper prescriptions, requires the individual practitioner be responsible for ensuring the prescription conforms to all legal requirements and the pharmacist, acting under the authority of the DEA-registered pharmacy, has a corresponding responsibility to ensure the prescription is valid and meets all legal requirements. Review of an EPCS application must be thorough in order to provide the prescriber and pharmacist the level of assurance needed in order to use the application.

Before any application may be used for electronic prescriptions for controlled substances, it must be reviewed, tested and determined by a third party to meet all of the requirements of 21

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CFR Part 1311. See 21 CFR 1311.300(a). There are two alternative processes for review of EPCS applications: (1) A third-party audit conducted by a person qualified to conduct a SysTrust, WebTrust or SAS 70 audit or a Certified Information System Auditor as stated in 21 CFR 1311.300(b), which comports with the requirements of paragraphs (c) and (d) of 21 CFR 1300.300 or (2) A certification by a certifying organization whose certification process has been approved by DEA as stated in 21 CFR 1311.300(e), which certification verifies that the application meets all of the requirements of 21 CFR Part 1311.

21 CFR 1311.300(c) and 21 CFR 1311.300(d) state respectively that an audit for installed applications and application service providers must, among other things, determine that the application meets all of the applicable requirements in Part 1311. This includes all of Part 1311 and references to Parts 1300, 1304 and 1306.

Some individuals may be misinterpreting 21 CFR 1311.300(c) and (d), which state that audits “for installed applications must address processing integrity and determine that the application meets the requirements of this part,” and audits “for application service providers must address processing integrity and physical security and determine that the application meets the requirements of this part.” (emphasis added). To further clarify, the Code of Federal Regulations is organized by title, chapter, part, subpart, section and paragraph. Any audit must include all of the applicable requirements for electronic prescriptions of controlled substances found in 21 CFR Part 1311 and not just section 1311.300 of part 1311. Part 1311 also cross-references Parts 1300, 1304 and 1306 which establish specific requirements that must be the subject of any audit. Thorough review and testing of all requirements is both required by the regulations and necessary to ensure secure and effective electronic prescribing and dispensing of controlled substances in the interests of public health and safety.
“Processing Integrity” must be addressed in audits of EPCS prescriber and pharmacy applications.

EPCS applications must address security to prevent insider threats and outsider attacks on any system. Careful review by an independent, qualified third-party of the “processing integrity” of any application is required to determine whether an application or application service provider has adequate protection against the range of potential security threats.

**Person qualified to conduct a third-party audit.**

DEA notes that 21 CFR 1311.300(b)(1) and (2) require that a third-party audit be conducted by a person qualified to conduct a SysTrust, WebTrust or SAS 70 audit or by a Certified Information System Auditor. The regulations do not require one of these types of audits, but rather that the person conducting the audit must have specified qualifications. As provided in 21 CFR 1311.300(c) and (d), any audit must address processing integrity and determine that the application meets the requirements of DEA’s regulations. DEA is reviewing the fact that the American Institute of Certified Public Accountants has replaced SAS 70 audits referenced in 21 CFR 1311.300(b)(1) and will necessarily address this issue in the final rule on EPCS.
Recommendation

Where questions arise in reviewing a particular EPCS prescriber or pharmacy application, DEA recommends that federal guidelines as set forth by the National Institute of Standards and Technology (NIST), specifically NIST Special Publication 800-53A, be consulted. Other NIST standards and publications are incorporated by reference in the Interim Final Rule and must be complied with as stated in the Interim Final Rule.

Some of the questions surrounding interpretation of DEA’s EPCS regulations as applied to specific applications are addressed by federal guidelines articulated by the National Institute of Standards and Technology in NIST Special Publication (SP) 800-53A, as revised. Federal computer systems must comply with federal guidelines as outlined in NIST SP 800-53A.11 As NIST SP 800-53A states, the publication may be used by nongovernmental organizations on a voluntary basis. Although the Interim Final Rule does not require compliance with NIST SP 800-53A, DEA believes this publication provides useful guidance and that it is advisable for private sector entities to consult the publication when reviewing security requirements for EPCS applications. In addition, EPCS will be used on federal systems in the military, the Department of Veterans Affairs and elsewhere where such systems must comply with federal guidelines.

DEA notes that the Notice of Proposed Rulemaking (NPRM) in June 27, 2008 discussed NIST SP 800-53A and whether or not it should be the basis for security requirements. 73 FR 36746-47 (June 27, 2008). DEA did not require application of NIST SP 800-53A in the Interim Final Rule due to the perceived need for flexibility and because security would be ensured by review of “processing integrity.” In light of developments since that time, DEA will be

revisiting this issue as it is clear that a mechanism must be established in the EPCS regulations to keep EPCS applications current with technology, particularly security requirements.

**Update**

**All certifying organizations with a certification process approved by DEA pursuant to 21 CFR 1311.300(e) are posted on DEA’s website once approved.**

As noted above, the Interim Final Rule provides that, as an alternative to the audit requirements of 21 CFR 1311(b) through (d), an electronic prescription or pharmacy application may be verified and certified as meeting the requirements of 21 CFR Part 1311 by a certifying organization whose certification process has been approved by DEA. The preamble to the Interim Final Rule further indicated that, once a qualified certifying organization’s certification process has been approved by DEA in accordance with 21 CFR 1311.300(e), such information will be posted on DEA’s website. 75 FR 16243, March 31, 2010. On September 22, 2011, DEA approved the certification process developed by InfoGard Laboratories, Inc. and relevant information has been posted on DEA’s website at [http://www.DEAdiversion.usdoj.gov](http://www.DEAdiversion.usdoj.gov) under electronic prescriptions.

Dated: October 7, 2011

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