

Sentinel[®]LDK

Sentinel LDK - v.6.1
Release Notes



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About Sentinel LDK

Sentinel LDK (Sentinel License Development Kit) provides software publishers with strong anti-piracy and IP protection solutions, offering unmatched flexibility in assisting you to protect your revenue and increase sales. The Sentinel system prevents unauthorized use of software, protects software copyrights and intellectual property, and offers multiple licensing models.

The strength, uniqueness, and flexibility of Sentinel LDK are based on two primary principles:

- *Protect Once—Deliver Many*[™] — the concept of separating the software engineering and business processes.
- *Cross-Locking*[™] — the technology that supports the *Protect Once—Deliver Many* concept, enabling a protected application to work with a Sentinel hardware key or a Sentinel License Certificate (software key).

All commercial decisions, package creation and license definitions are executed by product or marketing managers after the protection has been implemented.

This workflow model provides you with greater flexibility and freedom when defining new sales and licensing models, including feature-based and component licensing, evaluation, rental, floating, subscription, provisional (trial/grace), pay-per-use, and more, enabling you to focus on revenue growth.

Help Us Improve Sentinel LDK

You can make a difference! We invite you to send us your ideas and opinions, and tell us what you like (and don't like) about Sentinel LDK. Your input can help shape future versions of the product.

Feedback on Sentinel LDK can be sent to: ldkfeedback@safenet-inc.com

Contact Technical Support

For assistance, or to report problems, contact your local [SafeNet representative](#), or create a support call at <http://www.safenet-inc.com/technicalsupport.aspx>.

What's New in This Release of Sentinel LDK?

This section describes the main features that are introduced in Sentinel LDK.

Note: Most of the features described in this section were introduced in Sentinel LDK v.6.0. For ISVs who installed Sentinel LDK v.6.0, the new or modified features are those that are identified in this section as New for 6.1.

Migration Path From Business Studio Server to Sentinel EMS

(New for 6.1) Sentinel LDK now provides a Data Migration Tool and a Migration Guide to enable existing users of Sentinel HASP Business Studio Server to migrate to Sentinel EMS. The Data Migration Tool handles migration of data from the Business Studio Server database to the Sentinel EMS database. The Migration Guide describes the migration process and discusses various issues that may have to be addressed.

Business Studio Server API for Sentinel EMS

- **(New for 6.1)** Sentinel LDK now provides a Business Studio Server API (*BSS API*) that is compatible with the Sentinel EMS database. This tool translates legacy BSS API function calls to the equivalent Sentinel EMS Web Service calls. As a result, your existing CRM/ERP software can work with Sentinel EMS with little or no modification.

Implementation of the Business Studio Server API for Sentinel EMS is described in the Migration Guide.

- In the Products screen in Sentinel EMS, you can now click the license model for any of the Features in the displayed license to see a complete list of the license terms for the Feature.

Enhancements to Sentinel EMS

(New for 6.1) The Customer Portal in Sentinel EMS now supports the following types of license activation:

- Online activation – (Windows only) The Product license is activated on the machine used to access the Customer Portal. All exchange of information between Sentinel EMS and the local License Manager is handled transparently.
- Offline activation – The end user can perform activation of the Product license by manually creating a C2V file and then uploading it to Sentinel EMS. This type of activation would typically be used on a Linux or Mac machine, or to handle the activation of a license for a Windows machine that does not have internet access.

Enhanced Installer for Sentinel EMS

(New for 6.1) The installer for Sentinel EMS has been enhanced to simplify the installation process, while providing the necessary flexibility to handle different installation scenarios. The installer provides two setup types:

- Express – This setup type can handle the installation and configuration of the Sentinel EMS database on the local machine. Default configuration parameters are used.
- Advanced – This setup type works with an existing database (local or remote).

The Installation Guide provides information on a variety of configurations including redundancy and high-performance configurations.

The Installation Guide also provides:

- An upgrade procedure for upgrading from Sentinel EMS 2.1 (provided with Sentinel LDK v.6.0) to Sentinel EMS 2.2 (provided with the current release of Sentinel LDK).
- A troubleshooting section that handles common issues that may arise when installing Sentinel EMS.

New Back-end System

Sentinel LDK now incorporates Sentinel EMS (Sentinel Entitlement Management System) as its back-end database server, web server, and user interface. From a single central installation in the ISV organization, Sentinel EMS can be accessed by all authorized users from their web browsers.

Sentinel EMS supports functionality from earlier versions of Sentinel HASP. Sentinel EMS also provides new functionality such as:

- A user portal that customers can access to activate their licenses online by entering a Product Key. In addition, customers can now be required to provide registration information before they can activate their licenses.
- The ability to burn multiple HL keys simultaneously. This can provide a significant time savings for the ISV.

Certificate-based Licensing

Sentinel SL protection keys are now implemented using certificates. These licenses are tamper-proof and can be generated in a clear-text format that can be read and understood by the ISV and customer. The certificate licenses on the end user's computer provide a history of the license for the protected application. This simplifies tracking changes and dealing with any licensing questions that may arise.

License Rehosting

ISVs now have the option to allow customers to rehost (transfer) an SL protection key from one computer to another without any intervention by the ISV customer support department. This reduces the load on customer support and provides the customer with an improved end user experience.

Installation Without Administrator Rights

ISVs now have the option of providing a "UserMode" SL license for Windows platforms. This license does not require installation of the Run-Time Environment on the end user's computer. This simplifies installation of the protected application for the end user and allows applications to be installed without requiring administrator rights.

In addition, for network licenses, end users may be able to install the protected application without the Run-time Environment.

SL Protection Keys for Linux

ISVs can now offer protected applications with SL keys for the Linux operating system.

Envelope Security Enhancement

Sentinel LDK Envelope now employs "white box" secure channel when protecting applications. This protects the encryption key from exposure to hackers. In addition, the methods used by Envelope to protect applications prevent false positive reports by anti-virus software.

Sentinel License Generation API

For ISVs that already have a licensing infrastructure in place or that prefer to implement an alternative to Sentinel EMS and Sentinel EMS Server, Sentinel LDK offers a standalone licensing solution.

ISVs can use Sentinel License Generation API together with their existing licensing server software and ERP and CRM back office systems for maximum flexibility and control over their business processes.

Sentinel License Generation API provides the functionality required to generate and maintain Sentinel protection keys, but without any of the back office services that are provided by Sentinel EMS. All the required services are provided by the system that the ISV chooses to implement. The ISV would use Sentinel LDK only to handle the protection and licensing functions for their applications.

Sentinel License Generation API is incorporated into Sentinel LDK ToolBox. The online help for ToolBox includes descriptions of the API functions and the XML templates required to work with the API.

Sentinel Admin API

Sentinel Admin API provides the functionality available in Admin Control Center and Sentinel License Manager in the form of callable API functions. ISV developers can call functions to retrieve information from local or remote License Managers and to perform actions in these License Managers. For example, the developer can call functions to:

- Examine the configuration of a License Manager installation and make modifications to the configuration.
- Examine a list of accessible protection keys; retrieve all Feature data for a specific protection key.

- Detach a protection key from one computer and attach it to a different computer.
- Apply a V2C file.

Sentinel Admin API is incorporated into Sentinel LDK ToolBox. The online help for ToolBox includes descriptions of the API functions and the XML templates required to work with the API.

Envelope for Mac Now Supports Data Encryption and Decryption

Sentinel LDK Envelope for Mac now adds the capability for a protected application to encrypt and decrypt data that is written to and read from an external file.

Data files that will be delivered together with the protected application can be pre-encrypted using the Windows-based Sentinel LDK Data Encryption utility (previously referred to as the DataHASP utility).

New Run-time Environment

Sentinel LDK is provided with Run-time Environment 6.25.

Envelope for Mac now adds the capability for a protected application to encrypt and decrypt data that is written to and read from an external file.

Additional Enhancements for Sentinel LDK v.6.1

- The Master Wizard for Windows now provides information regarding the length of time required to download your customized libraries.
- An activation sample based on Sentinel EMS Services calls is now provided.

What's Changed in This Release of Sentinel LDK?

- The Activation Demo has been removed from the Vendor Suite menu. The Sentinel LDK tutorials now use the Customer Portal to demonstrate how to activate a Product.
- Language packs will not be provided for Sentinel LDK v.6.1 Vendor Tools or for Sentinel EMS. Vendors who require language packs for their development or back end environment should consider waiting for the release of Sentinel LDK v.6.3. (Note that installation of Sentinel LDK v.6.1 replaces localized versions of Business Studio and Vendor Suite with English-only software.)
- Product Groups in Sentinel EMS will be discontinued in the next release of Sentinel LDK (version 6.3). While Product Groups are supported in the current release, SafeNet recommends that you not include Product Groups in your planning for implementation of Sentinel EMS.

Sentinel LDK Documentation

The documents and online help systems described below are provided in this release of Sentinel LDK.

Documents

Sentinel LDK documents (PDF files) can be found:

- on the Sentinel LDK Installation DVD, under: **\Windows\Installed\Docs**
- where Sentinel LDK is installed, under: **...\Program Files\SafeNet Sentinel\Sentinel LDK\Docs**
- where Sentinel EMS is installed, under: **...\Program Files\SafeNet Sentinel\Sentinel EMS\EMSServer\webapps\ems\Docs**

(For Windows x64, under **\Program Files (x86)\...**)

Document	Description
Sentinel LDK Installation Guide	Details the prerequisites and procedures for installing Sentinel LDK Vendor Tools, Sentinel EMS Server, and the Run-time Environment.
Sentinel LDK Software Protection and Licensing Guide	Provides in-depth information about the logic of the applications and best practices for maximizing your software protection and licensing strategies. Describes a wide range of licensing strategies and models that you can implement, and can serve as the basis for elaboration and for creating new, tailor-made licensing models.
Business Studio Server to Sentinel EMS – Migration Guide	Describes the process for migrating existing data from the Business Studio Server database to the Sentinel EMS database. This Guide also describes how to implement the Business Studio Server API for Sentinel EMS.
Sentinel LDK Software Protection and Licensing Tutorials	Guides you through the basic procedures of Sentinel LDK to familiarize you with the applications and their functionality. <ul style="list-style-type: none"> • The Demo Kit tutorial is for vendors who wish to evaluate Sentinel LDK. • The Starter Kit tutorial is for vendors who have just purchased Sentinel LDK. Two versions of each tutorial are provided – one for working with Sentinel EMS as the back office system, and one for vendors who want to provide their own back office system and use only the Sentinel LDK APIs to handle licensing and protection.
Quick Start Guides	Provides a short and simple demonstration of how you can easily protect your software using Sentinel HL keys. Separate Demo Kit and Starter Kit guides are provided.
Integrating Sentinel EMS Server into Your Existing Back-Office Systems	Outlines the many ways that software vendors can maximize the potential of their existing back-office systems, such as ERP, CRM, and business intelligence systems, through seamless integration with Sentinel EMS Server.
Sentinel HL Drive Flash Partitioning Utility – User Guide	Describes how to use the Sentinel HL Drive partitioning utility and API to load your Sentinel LDK-protected applications and data onto the CD-ROM partition of a Sentinel HL Drive, and ship it to your customers. Your customer can save files to Sentinel HL Drive, or load additional software on it, thus utilizing the convenience of USB flash drive functionality.
Sentinel EMS Configuration Guide	Provides information on setting up and configuring Sentinel EMS to satisfy the requirements in your organization.
Sentinel EMS User Guide	Provides the Sentinel EMS user with detailed directions on how to set up license entities and how to handle entitlements, production, and support for Sentinel HL and SL keys. (This information is also provided in online help for the Sentinel EMS user interface.)

Online Help Systems – User Interfaces

The documentation described in the table that follows can be accessed from the user interface for the relevant Sentinel LDK component.

Online Help System	Description
Sentinel LDK Admin Control Center	Documentation for the end user, describing the Admin Control Center and providing instructions for performing the various functions such as updating or attaching licenses.
Sentinel EMS	Provides the Sentinel EMS user with detailed directions on how to set up license entities and how to handle entitlements, production, and support for Sentinel HL and SL keys.
Sentinel LDK Data Encryption Utility	Provides the developer with a description of the Sentinel LDK Data Encryption utility (formerly DataHASP utility), used for protecting data files that are accessed by Sentinel LDK Envelope.
Sentinel LDK Envelope (Separate versions for Windows and for Mac)	Describes how to employ Sentinel LDK Envelope to automatically wrap your programs with a protective shield. The application provides advanced protection features to enhance the overall level of security of your software.
Sentinel LDK ToolBox	Describes how to work with the ToolBox user interface for the Licensing, License Generation, and Admin APIs. Using Sentinel LDK ToolBox, the developer can experiment with the individual functions that are available in each API and can generate programming code for insertion in the developer's own program. Provides full documentation for each of the included APIs.

Online Help Systems – Sentinel LDK APIs

Documentation for the Sentinel LDK APIs described below can be found:

- on the Sentinel LDK Installation DVD, under: **\Windows\Installed\API**
- where Sentinel LDK is installed, under: **...\Program Files\SafeNet Sentinel\Sentinel LDK\API**
(For Windows x64, under **\Program Files (x86)\...**)

Sentinel LDK API	Description
Activation API Reference	Together with various Licensing API functions, this API assists the developer in communicating with the Sentinel EMS Server.
Licensing API Reference (formerly Run-time API)	Provides the developer with an interface to use the licensing and protection functionality available in the Sentinel LDK Run-time Environment.
Run-time Installer API	Provides the developer with an interface for integrating installation of the Run-time Environment into the installation of the vendor's protected application.

Sentinel LDK API	Description
Sentinel EMS Web Services	Provides the developer with an interface for integrating Sentinel EMS functionality into the vendor's existing back-office systems. (Documentation is available from the index.html menu under ...\Program Files\SafeNet Sentinel\Sentinel EMS\EMSServer\webapps\ems\Docs\ (For Windows x64, under \Program Files (x86)\...)
Business Studio Server API for Sentinel EMS	Provides the developer with an interface for integrating Business Studio functionality into the vendor's existing back-office systems. This API translates existing API function calls into Sentinel EMS Web Services calls.
License Generation API Reference	Provides access to the power and flexibility of Sentinel protection keys without the need to employ the full Sentinel EMS system. The developer can call functions in this API to generate and update licenses for Sentinel protection keys.
Admin API	Provides the functionality available in Admin Control Center and Sentinel License Manager in the form of callable API functions.

Software and Documentation Updates

SafeNet recommends that you frequently visit the [Sentinel downloads page](#) to ensure that you have the most recent versions of Sentinel LDK software and documentation, and for documentation in other languages.

Supported Platforms

To ensure that you have the most comprehensive and up-to-date list of supported platforms, refer to the *Sentinel LDK Installation Guide*.

General Information

Sentinel Vendor Keys

When you purchase a Sentinel LDK Starter Kit, you are provided with two Sentinel Vendor keys—the Sentinel Master key and the Sentinel Developer key.

The Sentinel Developer key is used by your software engineers in conjunction with the Sentinel LDK protection tools to protect your software and data files.

The Sentinel Master key is used in conjunction with Sentinel LDK and is attached to the Sentinel EMS Server. The key is used by your production staff to create licenses and lock them to Sentinel protection keys, to write specific data to the memory of a Sentinel protection key, and to update licenses already deployed in the field.

Every Sentinel EMS Server computer must have a Sentinel Master key connected.

Known Issues

The known issues in Sentinel LDK v.6.1 that are likely to have the most significant impact on users are listed below, according to component.

Sentinel Vendor Suite Installation

Ref	Issue
133240	<p>When Installing Sentinel Vendor Suite under Windows 2003, the installation may fail with an internal error or with error messages similar to the following:</p> <p>Error 1718. File <i>fileName</i> was rejected by digital signature policy.</p> <p>Installation ended prematurely because of an error.</p> <p>This problem is caused by a known issue in Windows 2003. To resolve this problem, go the following Microsoft URL:</p> <p>http://support.microsoft.com/kb/925336</p>
130317	<p>During installation, the file haspnedrt.dll may be detected as malware by AVG anti-virus. This is a false positive, and the file is safe to use. SafeNet has notified AVG Technologies about this issue.</p>

Sentinel LDK Master Wizard

Ref	Issue
139726	<p>Under some versions of openSUSE Linux, when the Master Wizard is run as root, the application hangs with the following output:</p> <pre>qctest@linux-g09j: ~/Desktop/Linux/VendorTools/VendorSuite> su Password: linux-g09j:/home/qctest/Desktop/Linux/VendorTools/VendorSuite # ./masterhasp ** GLib-GIO:ERROR:gdbusconnection.c:2279:initable_init: assertion failed: (connection->initialization_error == NULL) Aborted</pre> <p>This appears to be the result of a known issue in openSUSE.</p> <p>Workaround:</p> <p>Enter the following commands to run the Master Wizard:</p> <pre>su - ./masterhasp</pre> <p>(Note the syntax: "su -")</p>

Sentinel LDK Run-time Environment Installer

Ref	Issue
8475	<p>When you attempt to integrate the Sentinel LDK Run-time Environment Installer MSM module in your Windows Vista installation package, a warning may be displayed. This is a known issue for the Installer, and the message can be ignored. For more information about this issue, go to the following URL:</p> <p>http://kb.flexerasoftware.com/selfservice/microsites/search.do?cmd=displayKC&docType=kc&externalId=Q107955&sliceId=1&docTypeID=DT_ERRDOC_1_1&dialogID=95513399&stateId=0%200%2095503947</p>

Sentinel LDK Run-time Environment and Customer Tools

Ref	Issue
12506	Sentinel LDK communicates via TCP and UDP on port 1947. This port is IANA-registered exclusively for this purpose. At the end user site, the firewall must be configured so that communication via this port is not blocked.
TD14827	<p>Given the following situation:</p> <ul style="list-style-type: none">• A Product is protected by a Sentinel SL protection key and allows concurrency.• The number of concurrent users is the maximum allowed. <p>Additional users attempting to access the protected software receive the message “Access denied” instead of the message “Too many users.”</p>
137995	When a Feature that is disabled for virtual machines is accessed in a VM environment, the Run-time Environment returns the message HASP_FEATURE_NOT_FOUND instead of HASP_VM_DETECTED.
140898	Under the Linux operating system, Sentinel License Manager does not support the IPV6 network protocol.
144293	<p>In Admin Control Center, when the user clicks the Certificate button to display certificate information regarding an updated license, the certificate displayed is from the base version of the license. (This issue has no impact on license functionality.)</p> <p>This issue does not exist in Sentinel Admin API.</p>

Sentinel LDK Envelope for Windows Platforms

General

Ref	Issue
92503	<p>If you move an Envelope project file from its original location to a different location, then the next time you open the project, Envelope displays an incorrect path for the output (protected) file.</p> <p>You can use either of these workarounds to move an Envelope project file to a new location:</p> <ul style="list-style-type: none">• Use the Save As option from the Envelope File menu to save the project to the new location. (You can afterwards delete the original project file.).• Copy the directory structure containing both the project file and the related unprotected binary to the new location.
93877	<p>(For Windows Vista and Windows 7) In the event that the error “Serious internal engine error (65535)” is displayed, make sure that you have write permission for the specified output directories and that the output directory is not protected by Windows UAC.</p>

Ref	Issue
143551	<p>When a 32-bit overlay supported application is protected using Envelope and then executed under a 64-bit Windows operating system, the application fails or does not work, although the application executes successfully under a 32-bit Windows operating system.</p> <p>Workaround: This application should only be run under a 32-bit Windows operating system.</p>

Java

Ref	Issue
11043	<p>To protect JAR files using Sentinel LDK Envelope on Windows 2008 Server 64-bit computers, you must have the Win32 Java Run-time Environment (JRE) installed, even if you already have the Windows x64 JRE installed. Alternatively, ensure that the path to the Windows x64 JRE is included in the system path variables.</p>
91963 (CASE 20)	<p>When a (vendor) developer attempts to create a shared object file that links to the Sentinel LDK shared object file libhasp_linux_batchCode.so, error messages similar to the following are displayed:</p> <pre>user@host: ~/Desktop/API/Runtime/Java/source> ./build_linux_x64.sh Building HASP Java native library /usr/lib64/gcc/x86_64-suse-linux/4.3/../../../../x86_64-suse-linux/bin/ld: HASPJava.o: relocation R_X86_64_32 against `a local symbol' can not be used when making a shared object; recompile with -fPIC HASPJava.o: could not read symbols: Bad value collect2: ld returned 1 exit status</pre> <p>This problem occurs because the Sentinel Licensing (Run-time) API was not compiled to allow position-independent code generation (using the -fPIC flag).</p> <p>Workaround: You can obtain a version of the Sentinel Licensing API that was compiled with the -fPIC flag. For more information, contact Technical Support.</p>
93464	<p>Envelope v.5.10 and Envelope v.6.0 both provide extensive enhancements for protection of Java programs. As a result, projects for Java programs that were created before the release of this version of Envelope must be updated using the Sentinel LDK Envelope GUI. (Make sure that you update existing Envelope projects as described below before you attempt to use the current Envelope command-line utility with these projects.)</p> <p>To update an existing Envelope project (v.5.10 or earlier) to v.6.0:</p> <ol style="list-style-type: none"> 1. Open the project in the Sentinel LDK Envelope v.6.0 GUI and click the application in the Project pane. Envelope fills in the class/method list. By default, some methods are preselected. This is equivalent to the results expected when adding a new project. 2. Review the selection of methods that were selected by default for protection. For more information, see “Optimizing Protection Settings for Performance and Security” in the Sentinel LDK Envelope online help. 3. Save the project.
94373	<p>One of the optional behaviors in Envelope for protecting JEE applications is to halt the thread if the protected JEE application fails to detect a Sentinel protection key. This behavior is controlled by the advanced protection property SUSPEND_THREADS. However, the protection mechanism also halts all threads from all third-party application running in the same Java Virtual Machine instance (JVM) on the Tomcat server. (Note that each Tomcat server only starts a single JVM instance.) Therefore, when protecting JEE applications in Envelope, the default value for the SUSPEND_THREADS property is currently set to False. If you attempt to set the value for this property to True, a warning message is displayed. (Note that the Envelope help documentation erroneously states that the default value for this property is always True.)</p>

Ref	Issue
95269	The current release of Sentinel LDK Envelope does not support protection of Java paint methods, but it allows you to select them in the user interface. As a result, the protected program may cause a deadlock when it executes a protected paint method at runtime with no Sentinel key connected. To prevent this issue from occurring, you can deselect all paint methods. Note that paint methods do not usually contain application logic; therefore, deselecting them typically has no impact on security. As an alternative, you can select console output for messages by enabling stderr output instead of windows in the Advanced settings panel.
95491	<p>The current release of Sentinel LDK Envelope does not support protecting instance methods that call instance methods of the super class. Note that such methods are not detected by the Envelope and may be selected for protection by default. As a result, the protected application may trigger an <i>IllegalAccessError</i> exception during runtime.</p> <p>To prevent such exceptions, you can disable the protection of methods that contain calls to super class methods. Note that this reduces the level of protection.</p> <p>As an alternative, you can create a new class with a method that contains only the code leading up to (but not including) the call to the super instance method. You can protect this method instead of protecting the original method that contains the super instance method call.</p>
99869	<p>A protected JAR/WAR archive that contains Unicode characters in its path or name will not operate under the native operating system. Although there is small chance that the archive will run (depending on the type of Unicode characters that are used), in most cases the application will not run and will display an error message. (This problem does not occur on systems that use MUI for localization.)</p> <p>Workaround: Install the Tomcat server in a path whose name contains only ASCII characters. Ensure that the name of the WAR archive contains only ASCII characters.</p>
100213	<p>The number of instances of a protected application that can run in a network environment may exceed the number of concurrent instances allowed by the license terms.</p> <p>Workaround: In the protected application, call a Run-time API function to open a permanent session to the Feature for which concurrency is restricted.</p>
None	If protected JEE applications from multiple vendors are deployed on a single Tomcat server, the applications will not operate.

.NET

Ref	Issue
89873	If a base class is selected to be obfuscated and a derived class is not set to be obfuscated, the derived class will not find the base class. Therefore, if you select a base class for obfuscation, you must also select any derived class for obfuscation.

Sentinel LDK Envelope for Mac OS X

Ref	Issue
11416	In certain instances, a protected Mach-O binary may have a different owner and permissions than it had prior to protection with Envelope. This is caused because Envelope designates the current user (that is, the user applying the protection) as the owner of the newly-created files.
132292	<p>Applications that use deprecated functions or classes (for example: NSQuickDrawView used by SDL, deprecated since OS X 10.4.x) might fail to run under Mac OS X 10.7.x after protection. This is the case even if the unprotected application executes correctly or if the protected application executes correctly under versions of Mac OS X prior to 10.7.x</p> <p>Workaround: Do not use SDL or any other Library/Framework that relies on deprecated System Frameworks.</p>