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HIPS Core APIs
Release Note

28 August 2024 v2.0
Approved for external information
Document ID: DH-3915:2024

Related end product identifier: EP-3918:2024

Release rationale

The HIPS Core APIs provide a set of APIs that are dependencies for various HIPS products. As of this release, the following HIPS products are compatible with HIPS Core APIs v2.0:

- Document Authoring Adapter v1.0
- Health Viewer v1.0
- Structured Pathology Adapter v1.0

The HIPS Core APIs include the following functionality:

Configuration provider for HIPS products to manage configuration settings and options.

- Provides a Config API for HIPS products to retrieve the configuration settings applicable to each HIPS product.
- Provides a Config API for HIPS administrative tools to view and modify configuration settings for HIPS products.
- Provides a command-line interface (CLI) tool that uses the Config API to view and modify configuration settings for HIPS products.
- Provides a user interface to view and modify configuration settings for HIPS products.

Authentication provider for HIPS products to control access to HIPS APIs.

- Provides an OAuth2 compatible Auth API to authenticate web services and background services of HIPS products when connecting to other HIPS APIs.
- Provides a secure shared sign in form for user authentication to other user interfaces, including HIPS Admin Portal and Health Viewer.

Admin Portal for presentation of HIPS admin interfaces in a single location.

- Enables other HIPS products to register new interfaces as they are developed without needing to update HIPS Core APIs.
- Initially includes links for setting management for HIPS products and for reviewing locked out users.

Package inclusions

Updated

Identifier	Name and version
DH-3915:2024	*HIPS Core APIsv2.0 – Release Note* (this document)
DH-3917:2024	*HIPS Core APIs v2.0 – Binary Software Package*
DH-3914:2024	*HIPS Core APIs v2.0 – Product Data Sheet*
DH-3913:2024	*HIPS Core APIs v2.0 – Functional Change Log*

Audience

- Healthcare provider organisations
- System integrators
- Software vendors

Change details

The following items are addressed in this release.

ADO ID	Summary	Change description
Defect 35643	Insufficient Authentication: Lack of Authentication to Sensitive Files (HCA Config)	Swagger UI is no longer available by default. This reduces the risk of an attacker getting access to the API and any sensitive data it contains. To further reduce the risk of compromise, Swagger UI can no longer be enabled when the HIPS Environment configuration setting is set to Production.
Enhancement 7747	Authentication API to generate HV API access token for Health Viewer	HIPS sites can now integrate with the HIPS Auth API to generate the tokens required for embedding Health Viewer into clinical systems. With HIPS UI, sites had to develop custom code on their own to support embedding. Refer to the product documentation for implementation guidance.
Enhancement 18078	Develop a sign in user interface for user login to on-prem AD with support for Code flow with PKCE	A new secure shared sign in user interface has been introduced within the Auth API application for user authentication to other HIPS user interfaces, including HIPS Admin Portal and Health Viewer. The sign in interface enables user login to on-prem AD with support for Code flow with PKCE and support multifactor authentication using time based one-time password (TOTP) through any authenticator applications that support TOTP. The multifactor step of the login is configurable.
Enhancement 27895	Create Configuration Management UI feature equivalent to HIPS UI	The functionality of the HIPS UI Configuration Management page has been reimagined and implemented for managing settings in the new Config module. The UI provides users the ability to find and manage configuration settings for all HIPS components that store their configuration in the HIPS Core APIs configuration module. The new Configuration Management UI provides product specific views of configuration and is accessible to authorised users in the Admin Portal UI.
Enhancement 33633	Store TokenSigningCredential certificate in the configuration module	The token signing certificate for the HIPS Auth module is now managed by the HIPS Config module and no longer needs to be manually installed and configured in each application server's certificate store.
Enhancement 33846	Create database resources to support HIPS Admin Portal	New database objects have been created in the HIPS Core database to support the HIPS Admin Portal user interface. This includes a new portal schema, new tables in the portal schema and a stored procedures to manage data in the tables.
Enhancement 33939	Audit user login details including product used to login	Login activity is now audited in a new auth.AuditEvent table. Sites can turn off login auditing for failed login attempts if desired.

ADO ID	Summary	Change description
Enhancement 34183	Apply changes to data in the database when the -Settings flag is supplied, instead of when the -UpgradeDb flag is supplied during installation	Prior to this change installers were required to specify the -Install argument to apply changes made to the ConfigurationData.ConfigurationSettings section of the Configuration.psd1 file during installation. This was unintuitive and meant the entire application had to be removed and reinstalled to change settings through the script. A new -Settings argument has been added to the install script, which can be called independently of the -Install argument, allowing installers to change settings now without having to reinstall the binaries.
Enhancement 34466	Create a lightweight HIPS Admin Portal that is capable of embedding views of other HIPS admin UIs	A new admin portal user interface has been added to the HIPS Core APIs. The new admin portal will be the central location for displaying admin function specific user interfaces from other HIPS applications.
Enhancement 34550	Lock out users when their failed login attempts exceed the configured conditions	Configuration has been added to allow sites to manage lockout behaviour for the login process. This configuration applies to both the login form and the multifactor validation form. When a user enters the wrong username, password or MFA code MaxAttempts times within AttemptWindowMinutes minutes, their account is locked out, and they are prevented from any more attempts until their account is unlocked by an administrator or the configured minutes have passed since the account was locked. When the account is unlocked and the correct password is entered, the failed logins are reset, giving the user the full MaxAttempts attempts to sing in.
Enhancement 34552	Implement UI component to manage locked out users in Auth module	New functionality has been introduced to lock out users who have repeated failed sign in attempts. A user interface to view and unlock users who have triggered the lockout is available via the Admin Portal UI.
Enhancement 34721	Upgrade all HIPS Core APIs projects to .NET 8	The HIPS Core API binaries have been updated to run on .NET 8.0 as .NET 6.0 is reaching end of life. Prior to installation, the new .NET 8.0 runtimes must be installed on the application server. This is described in the installation documentation.
Enhancement 34840	Add friendly name to domains	The Core APIs now supports configuration of a friendly name for each domain during installation. The friendly name will be displayed in the sign in form in the Domain field.
Enhancement 40353	Enable the optional creation of the database during installation	The installation script has been extended to enable the creation of a HIPS database if one does not already exist matching the details in the connection string. Automatic creation of a database is optional.

Known issues

There are no known issues in this release.

Assurance

The HIPS Core APIs are not required to undergo any conformance assessments as they do not interact with the My Health Record or HI Service. Conformance assessments have been completed for other HIPS products that make use of the HIPS Core APIs – refer to the documentation provided with those products for more information.

Licence

The HIPS Core APIs Binary Software is licensed under the *HIPS Binary Software Licence Terms and Condition*s (included in the HIPS Core APIs Binary Software Package).

Support

The HIPS Core APIs product is provided in binary code form.

The Agency provides support to sites that use the Agency-provided binary version of HIPS, and this support is extended to HIPS Core APIs.

Sites using HIPS binaries built from source code are generally not supported by the Agency. Third-party technical support is available from commercial partner organisations. Implementers are encouraged to take out support contracts with suitable support providers to ensure the successful implementation and operation of HIPS.

Implementers who do this must undertake comprehensive conformance testing with the Healthcare Identifiers (HI) Service and the My Health Record system.

Please contact the Agency for details of available support services.

For further support or to provide feedback, please email help@digitalhealth.gov.au

Future releases

The HIPS Core APIs will be released on an ad hoc basis, based on providing new functionality or other changes as required.

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