Australian Government

Australian Digital Health Agency

HIPS Mobile
Release Note

17 November 2023   v3.1
Approved for external information
Document ID: DH-3827:2023

Related end product identifier: EP-3840:2023

Release rationale

HIPS Mobile allows clinicians in the hospital setting to have mobile device access to patient My Health Record information while engaging with patients in ward and bed-side settings or remotely off-site.

Clinicians in public and private hospitals already widely rely on mobile devices (smart phones and tablets) for accessing their patients' clinical information, so HIPS Mobile will add My Health Record patient data access to their repertoire.

- The HIPS Mobile v3.1 minor release features the following major improvements and defect fixes: Add friendly domain names.

- Allow facility codes up to 5 characters.

- Allow facility to have a logo which will replace the facility code displayed.

- Restrict the number of domains that can be selected by a user, automatically select first specified domain.

- Sort patient list by location.

- Wildcard searches enabled anywhere in the patient search text.

- Text filters will work on all text that appears on cards or rows.

- Allow new Document Class codes to be specified and filtered.

- Document viewer email address links will open device email application.

- Security and Performance updates.

Package inclusions

Updated

Identifier	Name and version
DH-3827:2023	*HIPS Mobile – Release Note v3.1* (this document)
DH-3828:2023	*HIPS Mobile – Binary Software Package v3.1*
DH-3829:2023	*HIPS Mobile – Product Data Sheet v3.1*
DH-3831:2023	*HIPS Mobile – Functional Change Log v3.1*

Audience

- Healthcare provider organisations
- System integrators
- Software vendors

Change details

The following items are addressed by the HIPS Mobile 3.1.0 minor release.

ADO ID	Summary	Change description
Enhancement 27951	Display a suitable message when launching app and the server is unavailable	In earlier versions of HIPS Mobile, when users launched the app from their home screen short cut, if the UI was unable to connect to the server a blank page would be displayed. HIPS Mobile now presents a page which encourages the user to try reloading the application.
Enhancement 28078	Add friendly name to Domains	HIPS Mobile now supports configuration of a friendly name for each domain. When configured, the friendly name is now shown with the technical domain name on the login page so that domains are more easily identifiable for users that may not be familiar with the technical domain name. The OnlyShowDomainFriendlyName setting controls whether the Domain Friendly Name is shown by itself, or whether it is shown with the Domain Name.
Enhancement 28258	Allow use of facility codes up to 5 Characters (show icon if > 5 Characters)	HIPS Mobile UI can now display up to 5 characters for the facility code. Facilities with more than 5 characters will display a default icon instead.
Enhancement 30014	Allow users to sign into HIPS Mobile without selecting their domain	HIPS Mobile can now automatically select a domain by including the domain as part of the URL. Appending with "?domain=testdomain.net.au" will have that domain automatically selected if it exists in HIPS Mobile. Additionally, if the site wants to specify multiple domains, they should be separated by an & character, e.g. "?domain=testdomain.net.au&domain=testdomain2.net.au", and HIPS Mobile will filter the list to show those domains only. Further options are available, refer to the documentation for more information.
Enhancement 31066	Add the ability to sort patient lists by location	Users are now able to sort patients in lists by their location.
Enhancement 32258	Allow sites to display a logo for each facility configured in HIPS Mobile in place of the facility code	HIPS Mobile has been updated to allow for facilities to choose whether to display a logo or facility code. This will be shown in the list of facilities, and in the side menu if the facility has been selected or favourited.
Enhancement 33255	Update Confidentiality & Patient Access Disclaimer text	The Confidentiality & Patient Access Disclaimer text has been updated to match the Agency's privacy policy standard.
Enhancement 33291	Improve performance of patient search	HIPS Mobile has improved its performance when loading patients in the search and other patient lists. This has resulted in faster response times when loading patients.

ADO ID	Summary	Change description
Enhancement 33576	Show PDF content before CDA for particular document types and levels	The PDF documents that are attached in the CDA document's main body section has now been merged and are displayed ahead of the CDA document. Also, PNG, GIF, JPEG and JPEG files are now supported as attachments.
Enhancement 33661	ESD No. 47 - Move the MHR status above the fold - promote it to the main section of the patient card	HIPS Mobile now displays the My Health Record status on the main section of the patient card, so users no longer have to expand the card to see a patient's status.
Enhancement 34099	HM v3.1 - Review and update Document Class data	The following documents have been added to the HIPS Mobile Document Class configuration: • MyMedicare Registered Practice Information • Patient Health Summary • Transfer Summary • Medication Chart
Enhancement 34564	Upgrade HIPS Mobile Angular Version 16	The HIPS Mobile UI has been updated to latest version of Angular: 16.0.1. This upgrade brings security, performance and other benefits.
Enhancement 34771	Upgrade FIDO library to resolve error Leftover bytes decoding pubArea error occurring on Windows 11 when using device security	The FIDO2 .NET library (WebAuthn) has been updated to the latest version (3.0.1). If the windows users are using biometric authentication, the biometric authentication should be removed from the database.
Enhancement 36086	Dynamically populate the list of document types shown in document list filters	HIPS Mobile has been updated so that documents can be filtered by document classes that are not configured in the underlying HIPS system. Additionally, only document classes that exist within the specified date range are shown.
Defect 28692	Deployment fails if Full-Text Search is installed and a full text index on given names has not already been added via the HIPS script Optional_HIPS_EnableFullTextIndexSearch.sql	The deployment failing with full text search index creation step has been fixed.
Defect 28698	Incorrect account configured for HIPSMobileRole during deployment when "HIPS.Database.ConnectionString.Upgrade" connectionstring uses SQL Auth	Installation scripts were using the incorrect details to configure HIPS Mobile and HIPS database permissions, there are 4 connections strings configured (HIPS Mobile, HIPS Mobile Upgrade, HIPS and HIPS Upgrade). The upgrade connection strings are now used to run the database commands.
Defect 29133	An error is displayed when a user clicks on an email address in pdf viewer	The email or FTP links shown in the document viewer have been fixed and now open in a new browser tab or pop-up.

ADO ID	Summary	Change description
Defect 29507	Border line is not aligned properly in Supported devices and browsers page	When focusing on the Supported Devices and Browsers dialog, the border that appeared intersected the text. This has been corrected so that the border aligns around the dialog correctly and no longer intersects the text.
Defect 30021	Currently selected document type and subtype filters are not getting retained when the page is redisplayed	The document type and subtype filters that were applied to a list while viewing a patient during a HIPS Mobile session are now remembered when a user returns to the document list for the same patient. Note: these filters are not retained if the user logs out, they will revert to the default filter.
Defect 30887	HIPS Mobile should not include domain in the Login when sending requests to HIPS	Users now have their logins properly shown in the HIPS response so that the domain of the user isn't shown twice.
Defect 31007	The hpa.ConfigurationSetting Value column should allow any size value	The hpa.ConfigurationSetting table's Value column was overly restrictive, only allowing 256 characters. This prevented sites from setting long setting values, including the full list of COVID-19 immunisations in the ImmunisationHighlightVaccines setting. The Value field has been extended to support any length of characters.
Defect 31045	Search page is attempting to Take too many records	HIPS Mobile no longer attempts to take more records than requested but takes exactly what it needs for the user's request.
Defect 31046	Wildcard search is not working unless the wildcard is included on the beginning and end	The wildcard search was not working if used in the middle of the search term. The issue has now been fixed and can be used anywhere in the search text.
Defect 31167	Date is not getting calculated correctly in heading and filters for few lists	The "to" date displayed on document lists would occasionally be shown incorrectly, sometimes showing the day after. The date filter now correctly shows the "to" date according to the local date and time.
Defect 33780	Search does not match criteria on given name if it finds another patient with family name that matches the search criteria, for example "Jackson"	The quick search has been improved so that search queries return all patient given names and family names matches, instead of stopping at either a given name or a family name match.
Defect 34930	Text filter should work with all text that appears on cards or rows	Previously, users were unable to filter document lists using the author's title. The document list author title has now been included in the fields to filter when using the text filter input.
Defect 34940	Table heading with no information is displayed in pathology reports component	Empty grouped lists under a pathology or diagnostic imaging organisation are no longer displayed and are removed from their corresponding lists.
Defect 35069	Global allocated patient list is not showing the correct patient's count	The allocated patients cache now gets cleared when adding or deleting patients using backend API.

ADO ID	Summary	Change description
Defect 35218	HIPS Mobile document list should include documents of new document types	HIPS Mobile now includes the new document types in the document list.
Defect 35761	X-Content-Type-Options – header not found	HIPS Mobile API has newly applied security fixes to includes specific header information that mitigates potential attacks.
Defect 35764	Browser Cache directive (leaking sensitive information)	HIPS Mobile API has secure HTTP headers that have been added so that responses from the API don't get cached and used in the browser.
Defect 35765	Reflected Cross-site scripting (XSS) - Reflected javascript in ajax	Reflected cross-site scripting has now been prevented by ensuring unsafe characters in the requests to the API are detected and rejected by HIPS Mobile. Prior to this change, the HIPS Mobile API would reflect back unsafe characters, such as html, in error responses. Although the API reflected these values back, the UI would not execute them.
Defect 35766	HIPS Mobile UI: X-Content-Type-Options – header not found	HIPS Mobile UI has newly applied security fixes to include specific header information that mitigates potential attacks.
Defect 35770	HIPS Mobile UI: X-Frame-Options HTTP - header checking	HIPS Mobile UI has removed obsolete header information so that new header information is used and mitigates potential attacks.
Defect 35956	Insufficient Authentication: Account Takeover via Authentication Flaw	A security audit identified a vulnerability which allowed an attacker to take over someone else's account by intercepting and altering the contents of the API requests during the login process. This vulnerability is no longer exploitable as the API will no longer trust the user input and validate server side. A part of this change includes the removal of the Forgot PIN feature, and removal of some local storage information, such as the saved username.
Defect 35957	Insufficient Authentication: Lack of Authentication to Sensitive Files	HIPS Mobile no longer has Swagger available by default so that the risk of an attacker getting access to the API is mitigated. Further to this, the Swagger UI cannot be enabled when the Environment configuration setting is set to Production.
Defect 35958	Insufficient Authorisation: Lack of Server-side Validation	HIPS Mobile has improved its security around the user's PIN, and has also had the reset PIN functionality removed as a result. This change mitigates security risks during the login process, preventing bad actors from taking over another user's account.

ADO ID	Summary	Change description
Defect 35959	Insufficient Anti-automation: Bypass of Rate Limiting Controls	HIPS Mobile no longer allows PIN related limiting controls to be sent in requests to the API. This limiting controls are now handled through configuration and are not accessible to an end user, meaning a potential attacker is unable to manipulate and bypass those limiting controls set in place.
Defect 35960	Insufficient Authentication: Username Enumeration	Prior to this change, HIPS Mobile would respond differently depending on whether the user entered an invalid username, or an invalid password. This difference was enough to inform an attacker whether the account existed or not. HIPS Mobile now returns a consistent error message in these cases, meaning that an attacker is no longer able to determine if the credentials they supplied belong to a valid user account or not.
Defect 36232	HIPS Mobile Auth API: X-Content-Type-Options – header not found	HIPS Mobile Auth has newly applied security fixes to include specific header information that mitigates potential attacks.

Known issues

The following open issues exist in this release:

ADO ID	Summary	Issue description
	No **Critical** or **High** issues exist at this release.	

Assurance

HIPS Mobile v3.1 has undergone the following conformance assessments including execution of all conformance test cases applicable to the functionality of HIPS Mobile:

- Conformance Test Specification for Clinical Document Rendering
    - CDA Rendering
    - CDA Rendering Detail Fields
    - Pathology Report
    - Diagnostic Imaging Report
- Conformance Test Specification for My Health Record Views
    - Medicare Overview
    - Pathology Report View
    - Diagnostic Imaging Report View
- Conformance Test Specification for Clinical Information Systems connecting to the My Health Record system
    - Download a view
    - Check if an advertised My Health Record exists
    - Gain access without code
    - Gain access with code
    - Gain emergency access
    - Download a clinical document
    - Download a view

Implementers are required to perform their own testing of My Health Record conformance test cases that relate to functionality outside of HIPS and declare conformity of their clinical systems in conjunction with HIPS to the My Health Record System Operator.

Documentation of conformance assessments performed for HIPS Mobile v3.1 is available from the Agency Help Centre at help@digitalhealth.gov.au or by phoning 1300 901 001.

Licence

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

Support

The HIPS Mobile 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 Mobile.

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

HIPS Mobile will be released on an ad hoc basis, based on providing new functionality or other changes as required. Typically, this has a cadence of one annual major release and 2-3 minor releases per year, with patch releases as required.