

PBS API Software Vendor Webinar

General Overview and updates

Thank you for joining, this webinar will begin at 11 AM,
22 October 2024



Acknowledgement of Country

We acknowledge the Traditional Custodians of country throughout Australia and their connections to land, sea and community. We pay our respect to their Elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples today.



Australian Government

Department of Health and Aged Care

Before we begin...



Please turn off your webcam



Please mute your microphone unless speaking



Any questions? Email HPP.Support@health.gov.au

Agenda

General Overview and updates

Introduction

- Update on project.
- Rollcall

Can all companies please email MSIA - medications@msia.com.au

- Company name (API registration)
- Software name
- Software type (eg dispensing, prescribing, hospital)
- Representatives present here today
- Best contact number



Agenda

General Overview and updates

API

- Discuss API versions
- Access renewal update

v3 API changes

- PBS Public data API

Discussions

- Q & A



PBS API

Update

- Thanks for giving us time to evaluate the feedback and derive a new plan.
- The Department is modernising the consumption and data distribution model for the monthly PBS Schedule data, in order to:
 - Improve accessibility to PBS Schedule data;
 - Make the data easier to understand and use in software; and
 - Improve data latency and data provision through best practice architecture.
- All current forms of PBS Schedule data will continue to be available as long as there are key fixes being implemented. There will be at least three months' notice of discontinuation once the API is stable.
- PDF Schedule and SOC - Will continue to be available in PDF form ongoing <https://www.pbs.gov.au/browse/publications> or under embargo.



PBS API

Supporting resources that have been updated

<https://data.pbs.gov.au/data-distribution/data-distribution.html>

- An updated guide that explains the process for converting **API data to PBS text files**
- An updated **data dictionary and data model** for the API
- Data dictionary content can also be found within the Developer portal containing the OpenAPI Definitions: <https://data-api-portal.health.gov.au/api-details#api=pbs-prod-api-public-v3>



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PBS API

API versions/Version Control

- V3 is the current version. [API catalogue](https://data-api-portal.health.gov.au) - <https://data-api-portal.health.gov.au>
 - Currently Only Major Version tracking is enabled within the current system, no minor/patch revisions are tracked with any changelog information.
 - A Major Version Increment will only be made when it will enforce a breaking change in the current latest version. This includes Data Type Modifications, Endpoint/Field Removals, Endpoint/Field Renaming, Enforcing/Restricting existing functionality, etc. This does not include Additions of endpoints/fields, positional changes in the field responses or data available within the fields.
 - When a Major version is released, the previous version will be available for an agreed period of time in parallel of the new major version being available.
 - Question for Vendors: Can we remove API V1-beta and V2-beta? If yes, when will be the good time to remove it?



PBS API

API versions/Version Control – Change Tracking Upcoming Release.

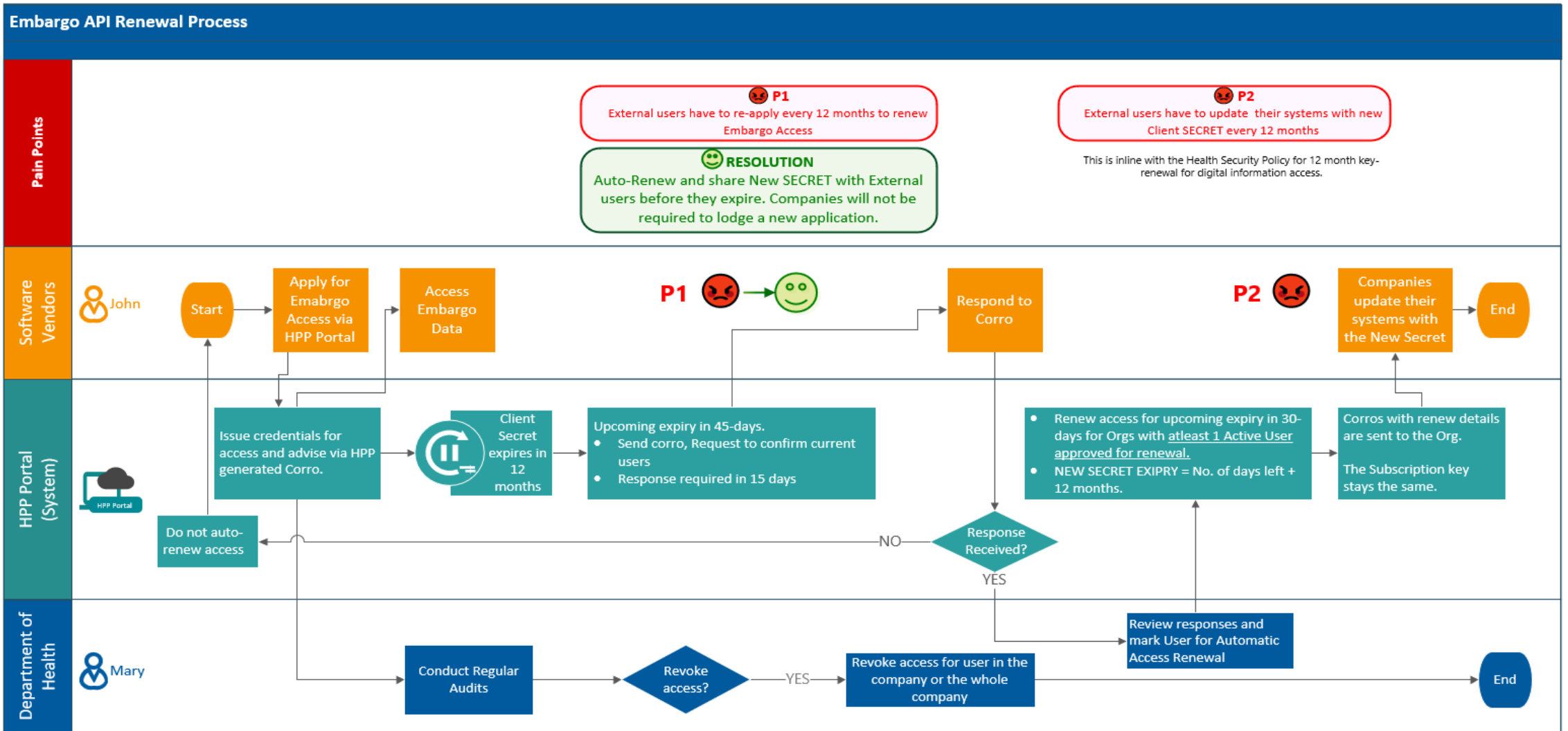
- New API Endpoint at the root url of the api Version (i.e. /pbs/api/v3)
- This will contain information around:
 - Current Release Version
 - Release Date
 - Status
 - Active – Currently Active release available and recommended to use.
 - Deprecated – Deprecated Release, Data available but not recommended.
 - Historical – Change Information only, specific release not available.
 - Changes grouped by area/type
 - Type – New/Enhancement/Fix
 - Area – Dev Portal/API Fields/Data

```
{
  "data": [
    {
      "api_name": "PBS_GENERAL",
      "api_version": "3.0.0",
      "api_released": "2024-10-10T00:12:52",
      "api_documentation": "https://hpsp-apim.developer.azure-api.net/api-details#api=pbs-dev-api",
      "api_status": "ACTIVE",
      "changelogs": [
        {
          "area": "API",
          "type": "NEW",
          "changes": [
            "API Changelog Tracking Implemented for Major/Minor/Patch releases",
            "Filter added to all endpoints to show the latest schedule information in descending"
          ]
        },
        {
          "area": "DATA MODIFICATIONS",
          "type": "ENHANCEMENT",
          "changes": [
            "In api/v3/items endpoint, LEGAL_CAR_IND all Null values have been defaulted to 'N'",
            "In api/v3/items endpoint, LEGAL_UNAR_IND all Null values have been defaulted to 'N'"
          ]
        },
        {
          "area": "DEVELOPER PORTAL",
          "type": "ENHANCEMENT",
          "changes": [
            "API definitions for all fields on all endpoints have been updated on developer porta",
            "All Endpoint examples have been updated on developer portal"
          ]
        }
      ]
    }
  ]
}
```



Embargo API Access Renewal

- Companies will no longer need to re-apply for access renewal-if they confirm which users need to retain access beforehand
- Updated Process below; the communication will be managed via Corros. Expect this solution to be in-place before the end of the year.



PBS API – Future Releases

Next week - “SOC INNOVATOR_INDICATOR” bug – By Wednesday COB.

Future release (Date: TBC)

New (For V3 only)

- New Column changed_endpoint added to Summary of Changes
- New column first_listing_date added to the restrictions table
- Schedule endpoint : Get latest schedule in newest to oldest format
- New filter added to all endpoints to show the latest schedule information only
- API Changelog Tracking Implemented for Major/Minor/Patch releases

Data Modifications (Data Enhancement)

- In api/v3/items endpoint, the values in weighted_avg_disclosed_price column has been changed to NULL.
- In api/v3/amt-items endpoint, exempt_ind all Null values have been defaulted to 'N'
- In api/v3/items endpoint, pack_not_to_be_broken_ind all Null values have been defaulted to 'N' for EP Program items. All other program items have been defaulted to Y
- In api/v3/items endpoint, Determined_qty all Null values have been defaulted to 'N'
- In api/v3/items endpoint, safety_net_resup_rule_cnt_ind all Null values have been defaulted to 'N'
- In api/v3/items endpoint, continued_dispensing_flag all Null values have been defaulted to 'N'



PBS API - Future Releases

Data Modifications (Data Enhancement)

- In api/v3/items endpoint, continued_dispensing_emergency all Null values have been defaulted to 'N'
- In api/v3/items endpoint, originator_brand_indicator all Null values have been defaulted to 'N'
- In api/v3/items endpoint, water_added_ind all Null values have been defaulted to 'N'
- In api/v3/items endpoint, policy_applied_bio_sim_up_flag all Null values have been defaulted to 'N'
- In api/v3/items endpoint, policy_applied_imdq60_flag all Null values have been defaulted to 'N'
- In api/v3/items endpoint, policy_applied_imdq60_base_flag all Null values have been defaulted to 'N'
- In api/v3/items endpoint, policy_applied_indig_phar_flag all Null values have been defaulted to 'N'
- In api/v3/items endpoint, legal_unar_ind all Null values have been defaulted to 'N'
- In api/v3/items endpoint, legal_car_ind all Null values have been defaulted to 'N'
- Any reference to res_code 9999_9999_R and prescribing_txt_id 119998, 119997 has been removed from item-restriction-relationships, restrictions, restriction-prescribing-text-relationships and prescribing-texts tables
- If a given item has a **'therapeutic_exemption_indicator'** value of **'Y'**/true in the **api/v3/items endpoint**, then within the **'Item-Dispensing-Rule-Relationships'** endpoint, the **special_patient_contribution**, **brand_premium** and **therapeutic_group_premium** columns is set to **'0.00'**.



General updates and FAQs

How do I know I have all the records?

Pagination Documentation on api.gov.au :

<https://api.gov.au/sections/pagination.html>

```
1  {
2    "_meta": {
3      "processing_time": "5174 milliseconds",
4      "processing_time_ms": 5174,
5      "total_records": 14328,
6      "page": 1,
7      "limit": 10,
8      "count": 10,
9      "filter_params": {
10     |   "schedule_code": [
11     |     |   "4332"
12     |   ],
13     |   "pbs_code": null,
14     |   "program code": null.
```



Known Issues for Future Roadmap

AMT V4 Updates, AMT TPUU Content & Non-AMT Codes

AMT V4 + Providing TPUU Content Work in Development.

Current Process to obtain Non-AMT Codes:

- Currently the DOHA Non-AMT Codes can be derived by concatenating the string, the DOHA AMT Namespace code (100014410) and the check sum digit using Verhoff's Algorithm - <https://confluence.ihtsdotools.org/display/DOCRELFMT/6.4.2+Check-digit+Computation>
e.g. $\text{Concat}(51303, 100014410, \text{VerhoeffChecksum}(\text{Concat}(51303, 100014410))) = 513031000144104$

- li_item_id -

PBS_code, PIG ID, MP, MPP, TPP (PBS IDs)

- pbs_item_id

	PBS_CONCEPT_ID	CONCEPT_TYPE_CODE	SCHEDULE_CODE	AMT_CODE	LI_ITEM_ID
1	51309	TPP	3967	1540191000168109	12937X_26112_51303_51306_51309
2	51306	MPP	3967	1540181000168106	12937X_26112_51303_51306_51309
3	51304	MPUU	3967	1540131000168105	12937X_26112_51303_51306_51309
4	51303	MP	3967	NULL	12937X_26112_51303_51306_51309
5	51301	MPUU	3967	1540081000168105	12937X_26112_51303_51306_51309

- Examples Provided within the text file to API mapping document.
- This will be available in a future release, Date TBC.



Known Issues for Future Roadmap

- Incorporate the copyright statement into the API
 - On every endpoint within the `_meta` element response within the request.
- Embargo files disappearing
- Restriction text HTML updates

- Please send through other suggestion for improvements to HPP.Support@health.gov.au

API data to PBS text files

Please be aware that the Department does not endorse the current text files

- The current text files are no longer fit for purpose, they have become an over-simplification of the PBS.
- The API has been developed with a view that different end users can seek to obtain only the data they specifically need (e.g. prescribers might not need pricing information but need to access other information for the purpose of prescribing).
- New documentation with actual matching outputs to the current text files is now available.



Discussion on potential improvements

Potential new endpoint

Item overview endpoint – Return consolidated Item code information.
JSON only due to the structure.

Example in NotePad is available [Data Distribution Project | PBS Data](#)

Would something similar in CSV be useful?

- Similar to Text files

```
194 | "extemporaneous_standard_formula_preparation": {
195 |   "sfp_drug_name": "Aluminium Acetate Aqueous",
196 |   "sfp_reference": "APF",
197 |   "container_fee": 1.35,
198 |   "dispensing_fee_max_quantity": 15.71,
199 |   "safety_net_price": 17.51,
200 |   "maximum_patient_charge": 20.96,
201 |   "maximum_quantity_unit": "ml",
202 |   "maximum_quantity": 200,
203 |   "extemporaneous_preparation_reference": {
204 |     "ex_prep_pbs_code": "39C",
205 |     "extemporaneous_preparation": {
206 |       "preparation": "Lotions",
207 |       "maximum_quantity": 200,
208 |       "maximum_quantity_unit": "ml"
209 |     }
210 |   }
211 | },
212 | "item_pricing_events": [],
213 | "prescribers": [
214 |   {
215 |     "prescriber_code": "M",
216 |     "prescriber_type": "Medical Practitioners"
217 |   }
218 | ],
219 | "organisation": null,
220 | "item_organisations": []
221 | },
222 | {
223 |   "li_item_id": "101H____",
224 |   "drug_name": "Acetic Acid (33 per cent)",
225 |   "li_drug_name": null,
```



Prescribing changes - summary

To be discussed in a separate session

Restriction changes and questions

- Restriction enhancements - add start date, rendering of text, ordering of components
- Text file difference explained
- Authority Required - comply with written Authority - FULL flag
- Legal CAR and UNAR
- Issue is with the Restriction Text field being inserted into the SUMMARY_OF_CHANGES_T
- Restrictions endpoint, the schedule_html_text contains incorrect formatting



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Dispensing changes - summary

To be discussed in a separate session

Pricing changes and questions

- Price enhancement – add markup code and amount, add Max patient contribution, fix Therapeutic goods premium and special patient contribution calculations, remove all values in weighted average disclosed price column, enhance Item dispensing rule relationships
- Hospital discount co-payment amounts.
- DPMQ of the brand with the brand premium
- Markups
- dispensing_rule_mnem
- cp2p and cdpmq value - DETERMINED_PRICE gives us the value for cemp_tpp and CLAIMED_PRICE gives us the value for memp_tpp
- Container_WholeSaler



Discussion and reminder of rollcall.

- Rollcall

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