

PBS Developers' Forum

14th November 2018

Agenda

- ✦ Welcome/Introduction
- ✦ Electronic Medication Management
- ✦ Supply/Dispense Only
- ✦ Dispensing Rules
- ✦ Restriction Numbers
- ✦ Supply Chain Reform
- ✦ Radiopharmaceuticals
- ✦ AMT Mapping Update
- ✦ PIR: v3.0 PBS XML
- ✦ Data Future Direction
- ✦ Action Items
- ✦ Other Business
- ✦ Meeting close

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Electronic Medication Mgmt

- ✦ Active ingredient prescribing
- ✦ ePrescribing

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Supply/Dispense Only

- ✦ Supply Only
 - ✦ Can no longer be prescribed

Supply/Dispense Only

- ✦ Legislation
 - ✦ What are the changes?
 - ✦ What is the intent?
 - ✦ Changed February 2018
 - ✦ Listing can continue for supply but not for prescribing

Supply/Dispense Only

- ✦ Legislation
 - ✦ Listing information controls period of supply-only status
 - ✦ Otherwise, a listing remains the same

Supply/Dispense Only

- ✦ Data
 - ✦ Listing stays 'alive'
 - ✦ No need for translation
 - ✦ Updates to pricing and substitution as normal

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Dispensing Rules

- ✦ Request from vendor
- ✦ Missing dispensing rules for PL, R1
 - ✦ Public, private hospital
- ✦ Same as GE

Dispensing Rules

- ✦ Test XML published 6 November
- ✦ Implementation ASAP
 - ✦ Avoid pricing changes

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Restriction Numbers

- Restriction code: Unique to whole restriction.
- Treatment-of code: Unique to legal text of restriction
- Currently 4 digits
 - Maximum value: Theoretically none, practically – not the case.
 - Rate of consumption: around 50 restrictions, 110 codes a month
- Soon will be 5 digits
- Test file to be provided
- Forecast date: Early 2020

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Supply Chain Reform

- ✦ Improved PBS Payment Administration
- ✦ Changes to PBS XML
- ✦ Pricing methodology
- ✦ Crediting arrangements
- ✦ Administrator-Pharmacy interface
- ✦ Identification of suppliers



Overview - the Budget measure

- 2018-19 Budget measure - Improving Access to Medicines – additional funding for new medicines and improved payment administration
- Government to pay a 'net' price for some medicines, rather than paying the higher published price and receiving rebates from manufacturers.
- Will reduce PBS revenue.
- Initial 12 month phase will include a smaller sub-set of medicines with Special Pricing Arrangements.



Purpose

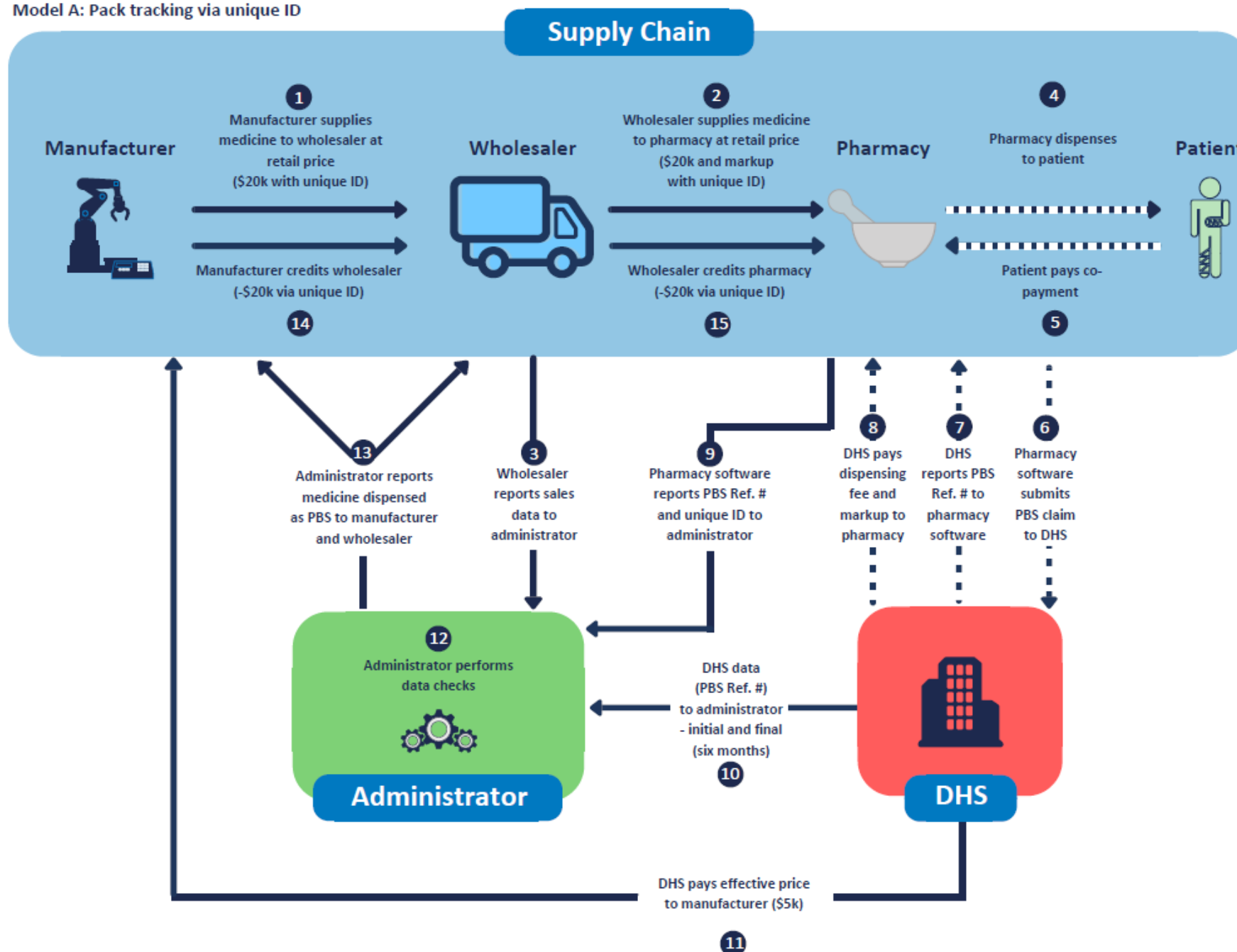
The measure seeks to address issues raised by the Independent Review of Pharmacy Remuneration and Regulation by:

- Increasing consumer access to high cost medicines
- Addressing cash flow concerns from pharmacists and wholesalers
- Addressing the financial risks associated with the payment of large rebates to the Australian Government for some high cost medicines



Dispensing and point of sale systems

Model A: Pack tracking via unique ID





Dispensing and point of sale systems

- Role of administrator (centralise data, but will not take over business functions such as credit requests)
- Systems reporting to administrator – data elements set out in VRD.
- Language/connectivity: JSON (REST API)
- Administrator reporting back: aiming for real-time, and giving a net view of credits by party (real time) plus variety of data views via login
- Credit or payment request to be sent (if applicable)
 - System (dispense/PoS/financial systems for hospitals)
 - Connectivity between dispense and PoS
 - 'Business rules' for decision making on sending requests (e.g. who)



Dispensing and point of sale systems continued

- Possible endpoints for request
 - 5-6 wholesalers
 - Manufacturer (direct supply arrangements)
 - Third party hub (escrow agent, credit manager)
 - Other (e.g. QLD Central Pharmacy)
- Customers may wish to:
 - Self-select party that receives request
 - Send a request separately (e.g. manual process, which may occur if extra info is required)
 - Use business rules to automate process (as per last slide)
 - Update administrator on credits paid (remove from active data views)

Supply Chain Reform

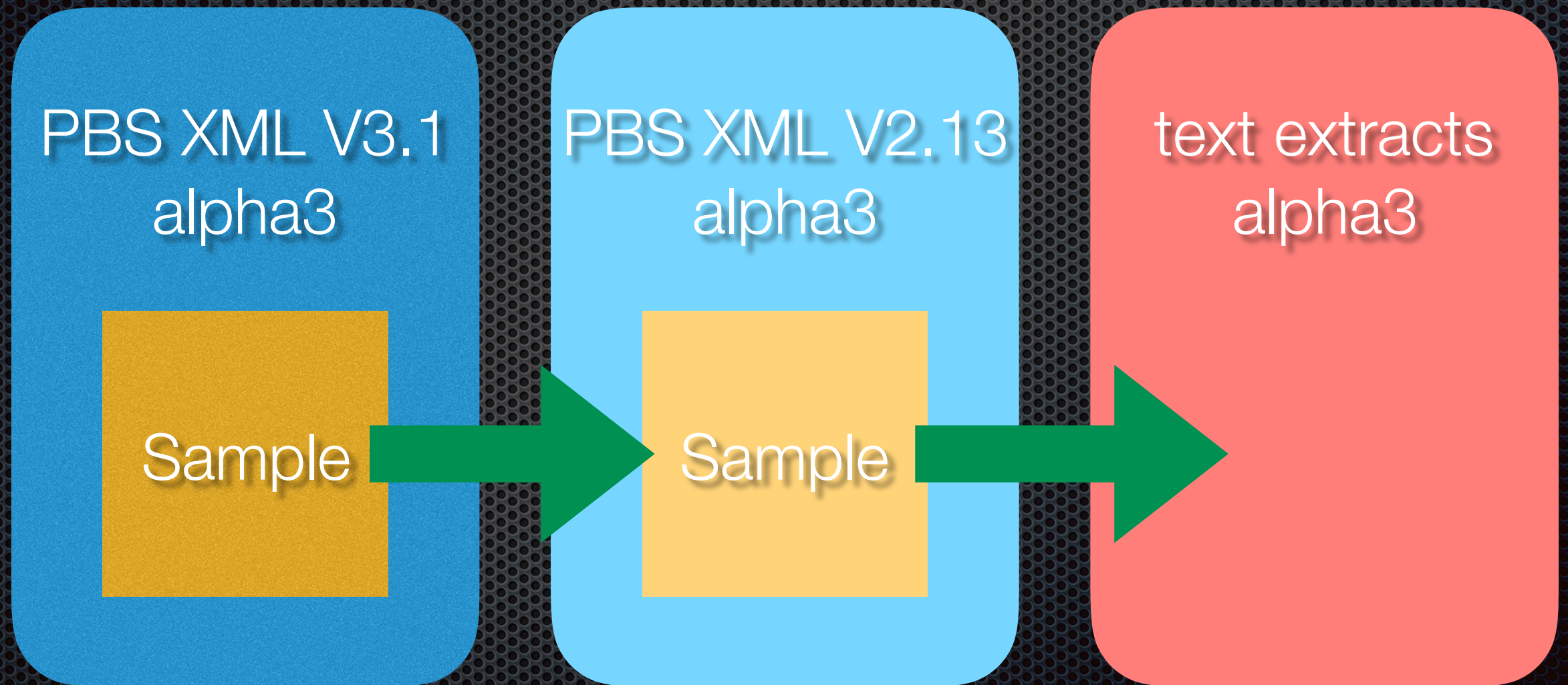
- ✦ Changes to PBS XML Schema \Rightarrow v3.1
- ✦ Melbourne presentation (updated)

Supply Chain Reform

- ✦ Current status
 - ✦ PBS XML V3.1 alpha3
 - ✦ PBS XML V2.13 alpha3
 - ✦ text extracts alpha3
- ✦ Feedback period expired
 - ✦ beta1 releases

Supply Chain Reform

- Current status



Supply Chain Reform

- ✦ Pricing methodology
 - ✦ John Green

Supply Chain Reform

- ✦ Administrator-Pharmacy interface
 - ✦ Greg Pryde

Supply Chain Reform

✦ Unknown supplier

POST /v0.1/SCR/ {ApprovalNo} /Query

```
{  
  "event": "string" [Options:A,U,C,R,TO,TI,D],  
  "pbsSupplyStatus": "string" [Options: P,N],  
  "approvalNum": "string",  
  "dateOfDispensing": "0001-01-01T00:00:00",  
  "pbsItemCode": "string",  
  "manufacturerCode": "string",  
  "pbsReferenceNum": "string",  
  "pharmxSupplierID": "string",  
  "categoryOfPayment": "string",  
  "claimPeriodNum": "string",  
  "serialNum": "string",  
  "packPercSupl": 0.0,  
  "tpp": "string",  
  "Ctpp": "string",  
  "uniqueID": "string",  
  "uppn": "string"  
}
```


Supply Chain Reform

✦ Return result

400 , Bad Request

```
{  
  "error": "bool",  
  "errorDetails": "string"  
  "approved": "bool"  
  "resultCode": "string"  
  AvailableCredits: [{  
    "PharmxSupplierCode": "string",  
    "CreditsAvailableInPacks": 0.0  
  }]  
}
```


Supply Chain Reform

- ✦ Known supplier
- ✦ Post with supplier code
- ✦ Returns transaction ID

```
POST /v0.1/SCR/ {ApprovalNo}
{
  "event": "string" [Options:A,U,C,R,TO,TI,D],
  "pbsSupplyStatus": "string" [Options: P,N],
  "approvalNum": "string",
  "dateOfDispensing": "0001-01-01T00:00:00",
  "pbsItemCode": "string",
  "manufacturerCode": "string",
  "pbsReferenceNum": "string",
  "pharmxSupplierID": "string",
  "categoryOfPayment": "string",
  "claimPeriodNum": "string",
  "serialNum": "string",
  "packPercSupl": 0.0,
  "tpp": "string",
  "Ctpp": "string",
  "uniqueID": "string",
  "uppn": "string"
}
```


Supply Chain Reform

- ✦ Return result

400 , Bad Request

```
{  
  "error": "bool",  
  "errorDetails": "string",  
  "transactionID": "string",  
  "approved": "bool",  
  "resultCode": "string"  
}
```


Supply Chain Reform

- ✦ Delete a UPPN
- ✦ Returns transaction ID

`DELETE /v0.1/SCR/ {ApprovalNo}/{UPPN} , Cancel a UPPN`

Supply Chain Reform

✦ Return result

404, UPN not found

400 , Bad Request

```
{  
  "error": "bool",  
  "errorDetails": "string",  
  "transactionID": "string",  
  "approved": "bool",  
  "resultCode": "string"  
}
```


Supply Chain Reform

- ✦ Get status of UPPN

GET /v0.1/SCR/ {ApprovalNo}/{UPPN}

404, UPN not found

400 , Bad Request

✦ Return result

```
{
  "currentUPPNStatus": {
    "event": "string" [Options:A,U,C,R,TO,TI,D],
    "pbsSupplyStatus": "string" [Options: P,N],
    "approvalNum": "string",
    "dateOfDispensing": "0001-01-01T00:00:00",
    "pbsItemCode": "string",
    "manufacturerCode": "string",
    "pbsReferenceNum": "string",
    "pharmxSupplierID": "string",
    "categoryOfPayment": "string",
    "claimPeriodNum": "string",
    "serialNum": "string",
    "packPercSupl": 0.0,
    "tpp": "string", "Ctpp": "string",
    "uniqueID": "string", "uppn": "string"
  },
  "error": false,
  "errorDetails": "string"
}
```


Supply Chain Reform

- Get statement for a period for close of claim

GET /v0.1/SCR/ {ApprovalNo}/{ClaimPeriod}

✦ Return result

400 , Bad Request

```
{
  {
    "currentUPPNStatus": [{
      "uppn": "string",
      "tpp": "string",
      "Ctpp": "string",
      "pbsItemCode": "string",
      "manufacturerCode": "string",
      "matchedToDHS": false,
      "matchedToWholesaler": false
    }],
  },
}
```


✦ Return result

```
"currentInvoiceStatus": [{  
  "tpp": "string",  
  "pbsItemCode": "string",  
  "manufacturerCode": "string",  
  "pharmxSupplierID": "string",  
  "noOfPacksSupplied": 0.0,  
  "matchedToUPPN": false  
}],
```


✦ Return result

```
"paymentStatus": {  
  "amountToPayPharmacy": 0.0  
},  
"error": false,  
"errorDetails": "string"  
}}
```


Supply Chain Reform

- ✦ C# classes
- ✦ Base response class

```
public class SCRBaseResponse
{
    public bool error { get; set; }

    public string errorDetails { get; set; }
}
```


Supply Chain Reform

- ✦ C# classes

- ✦ Common request class

```
public class SCRRecord
{
    public string Event { get; set; }
    public string PBSSupplyStatus { get; set; }
    public string ApprovalNum { get; set; }
    public DateTime DateOfDispensing { get; set; }
    public string PbsItemCode { get; set; }
    public string ManufacturerCode { get; set; }
    public string PBSReferenceNum { get; set; }
    public string PharmxSupplierID { get; set; }
    public string CategoryOfPayment { get; set; }
    public string ClaimPeriodNum { get; set; }
    public string SerialNum { get; set; }
    public double PackPercSupl { get; set; }
    public string TPP { get; set; }
    public string CTPP { get; set; }

    public string UniqueID { get; set; }
    public string UPPN { get; set; }
}
```


Supply Chain Reform

- ✦ C# classes
- ✦ Response to add new script

```
public class SCRPostUPPNStatusResponse:SCRBaseResponse
{
    public string TransactionID { get; set; }
    public bool Approved { get; set; }
    public string ResultCode{ get; set; }
}
```


Supply Chain Reform

- ✦ C# classes
- ✦ Response to query for available credits

```
public class SCRQueryUPPNStatusResponse:SCRBaseResponse
{
    public string TransactionID { get; set; }
    public bool Approved { get; set; }
    public string ResultCode{ get; set; }
    public SCRUPPNAvaliableCredits [] AvaliableCredits { get; set; }
}
public class SCRUPPNAvaliableCredits
{
    public string PharmxSupplierCode { get; set; }
    public double CreditsAvaliableInPacks { get; set; }
}
```


Supply Chain Reform

- ✦ C# classes
- ✦ Response to status for a UPPN

```
public class SCRGetUPPNStatusResponse:SCRBaseResponse
{
    public SCRRecord CurrentUPPNStatus { get; set; }
}
```


Supply Chain Reform

- ✦ C# classes
- ✦ Response to query for payments in a claim period

```
public class SCRGetClaimPeriodStatusResponse : SCRBaseResponse
{
    public SCRUPPNStatus[] CurrentUPPNStatus { get; set; }
    public SCRInvoiceStatus[] CurrentInvoiceStatus { get; set; }
    public SCRPaymentStatus PaymentStatus { get; set; }
}
```


Supply Chain Reform

- ✦ C# classes
- ✦ Response to query for payments in a claim period

```
public class SCRUPPNStatus
{
    public string UPPN { get; set; }
    public string TPP { get; set; }
    public string CTPP { get; set; }
    public string PbsItemCode { get; set; }
    public string ManufacturerCode { get; set; }
    public bool MatchedToDHS { get; set; }
    public bool MatchedToWholesaler { get; set; }
}
```


Supply Chain Reform

- ✦ C# classes
- ✦ Response to query for payments in a claim period

```
public class SCRInvoiceStatus
{
    public string TPP { get; set; }
    public string PbsItemCode { get; set; }
    public string ManufacturerCode { get; set; }
    public string PharmxSupplierID { get; set; }
    public double NoOfPacksSupplied { get; set; }
    public bool MatchedToUPPN { get; set; }
}
public class SCRPaymentStatus
{
    public double AmountToPayPharmacy { get; set; }
    //can be positive or negative
}
```


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Radiopharmaceuticals

- ✦ Nuclear medicine
- ✦ Radium-223
- ✦ First radiopharmaceutical
- ✦ Prescribed only by nuclear medicine specialists

Radiopharmaceuticals

- ✦ PBAC listing ASAP
- ✦ Interim approach:
 - ✦ List in Botox program
 - ✦ Same conditions
- ✦ Long-term approach?
 - ✦ Please provide feedback

Agenda

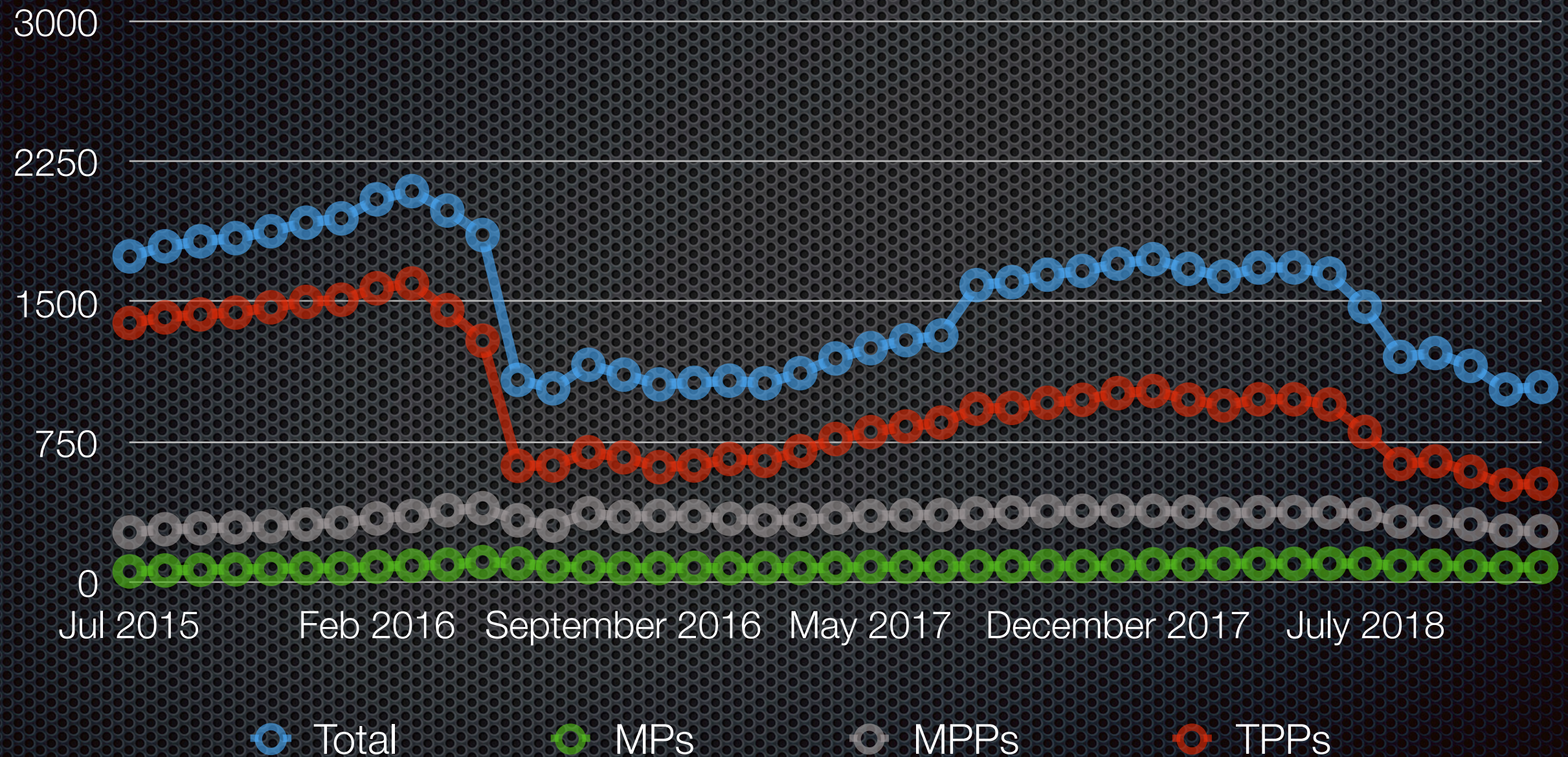
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- ✦ **AMT Mapping Update**
- ✦ PIR: v3.0 PBS XML
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AMT v3

- ✦ PharmCIS uses AMT v3
- ✦ Load monthly releases
- ✦ Backlog of un-reconciled concepts

AMT v3

Non-AMT Concepts



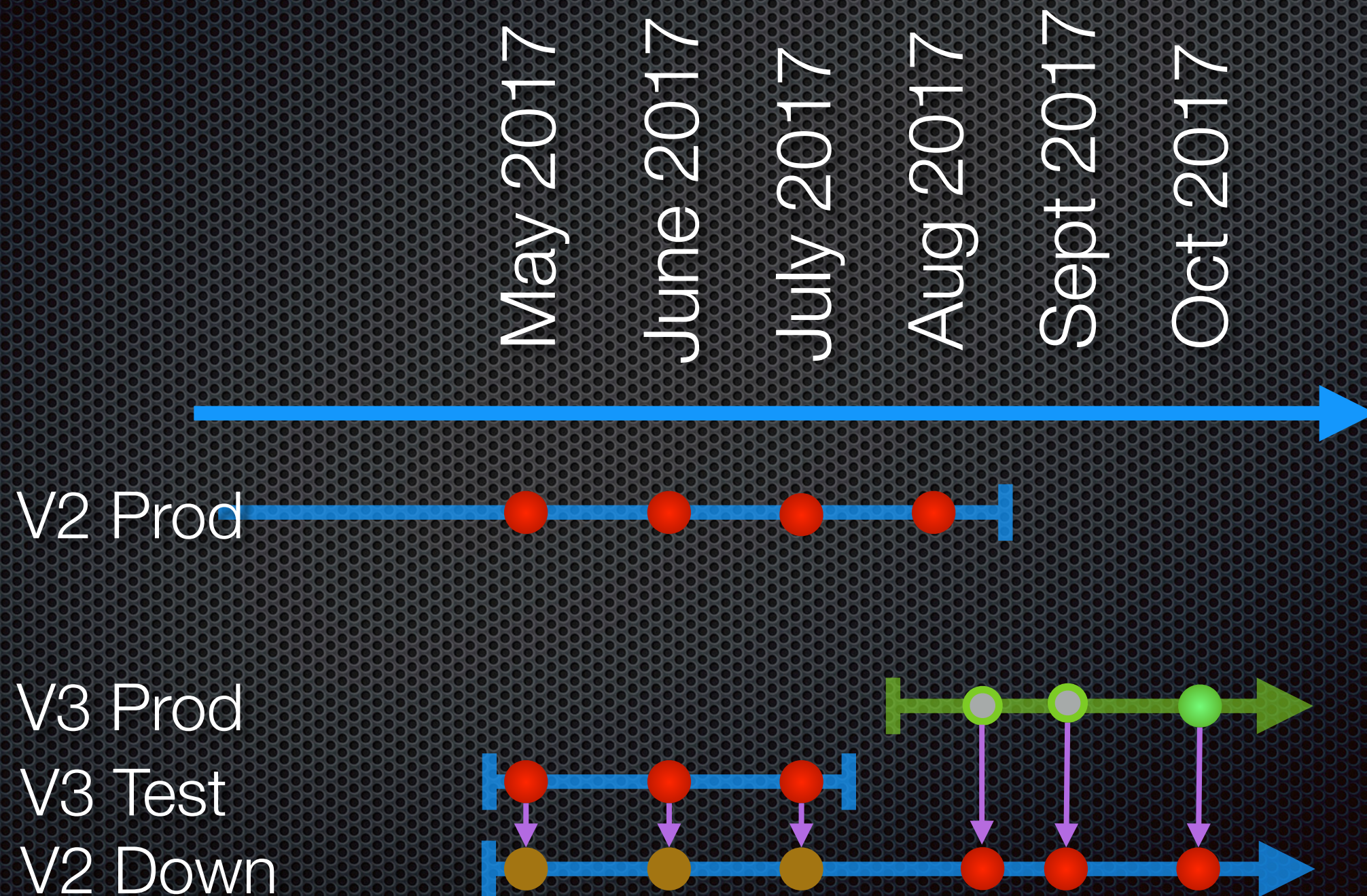
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PIR: v3.0 PBS XML

- ✦ Major version 3
- ✦ Production release: 28/7/2017
- ✦ v3.0 data: 1 August 2017

PBS XML v3.0



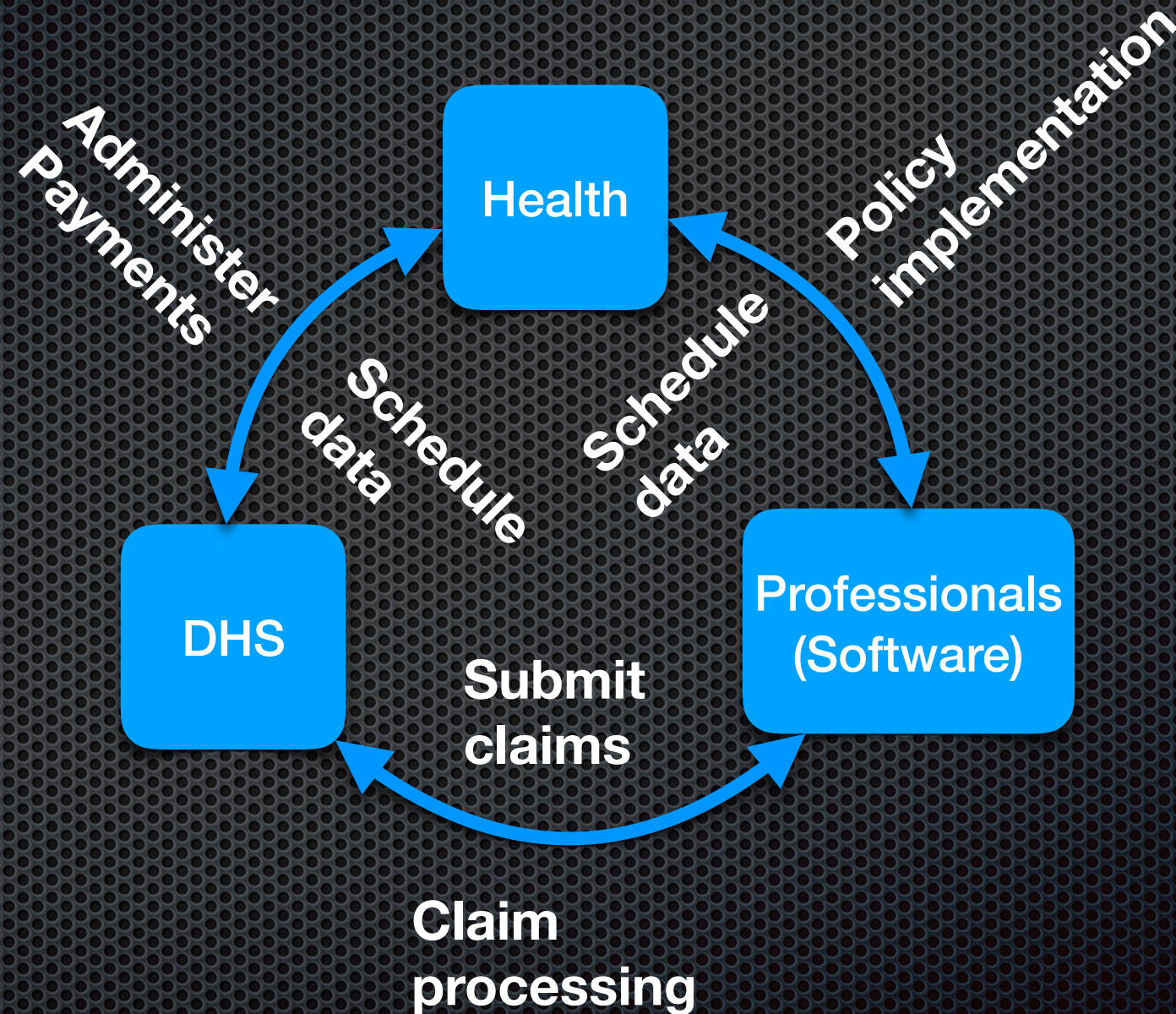
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PBS Data Future Direction



PBS Data Future Direction



PBS Data Future Direction

	Text extracts	PBS XML v2	PBS XML v3	MBS XML	PLAC XML
Supports LIs	✗	✓	✓	?	?
Supports publications (website, PDFs)	✗	✓	✓	?	?
Supports DHS	✗	✓	✓	?	?

PBS Data Future Direction

	Text extracts	PBS XML v2	PBS XML v3	MBS XML	PLAC XML
Supports automation of prescribing	✗	✓	✓	n/a	n/a
Supports automation of dispensing (CP)	Partial	✓	✓	n/a	n/a
Supports automation of dispensing (Hosp)	✗	✓	✓	n/a	n/a

PBS Data Future Direction

	Text extracts	PBS XML v2	PBS XML v3	MBS XML	PLAC XML
Forward compatibility	✗	✓	✓	✗	✗
I18N	✗	✓	✓	✓	✓
Partial download	✗	✗	✗	✗	✗
Textual content	✗	✓	✓	✗	✗

PBS Data Future Direction

	Text extracts	PBS XML v2	PBS XML v3	MBS XML	PLAC XML
History	✗	✓	✓	✗	✗
Delta processing	✗	✓	✓	✗	✗
Metadata	✗	✓	✓	✗	✗
Simple/basic consumption	✓	✗	✗	✗	✗

PBS Data Future Direction

	Text extracts	PBS XML v2	PBS XML v3	MBS XML	PLAC XML
Normalised	✗	✓	✓	✗	✗
Customised	✗	✗	✗	✗	✗
Responsive to change	✗	✗	✗	✗	✗
Scope of content	Basic	Partial	Comprehensive	?	?

PBS Data Future Direction

	Text extracts	PBS XML v2	PBS XML v3	MBS XML	PLAC XML
Integrated data	✗	✗	✗	✗	✗
Support terminologies	✗	✓	✓	✗	✗
Access to internal terminologies	✗	✓	✓	✗	limited
Supports digital transformation	✗	✓	✓	✓	✓

PBS Data Future Direction

	Text extracts	PBS XML v2	PBS XML v3	MBS XML	PLAC XML
Business feature: x- item subs	✗	✓	✓	n/a	n/a
Business feature: restrictions	✗	✓	✓	n/a	n/a
Business feature: dispensing rules	✗	✓	✓	n/a	n/a
Business feature: history granularity	✗	✓	✓	n/a	n/a

PBS Data Future Direction

	Text extracts	PBS XML v2	PBS XML v3	MBS XML	PLAC XML
Responsive to NPP changes	✗	✗	Partial	✗	✗

PBS Data Future Direction

- Vendor requirements?

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Action Items

- *The PBS Online system will identify if a patient has been to another Pharmacy for the same script. Department of Health will advise further on this issue.*
- Action for EMMS

Action Items

- ✦ *S/O: Manufacturer code changes/removals*
 - ✦ DHS system does not handle changes to brands
 - ✦ See agenda item

Action Items

- ✦ *Pro's and Con's of adding PBS code to script.*
 - ✦ Policy discussion

Action Items

- ✦ *Add Rendering Specification to PBS XML Schema package*
 - ✦ Accepted
 - ✦ Will be provided ASAP

Action Items

- *Provide feedback of impact on having Safety Net values independent of day and counted values*

Action Items

- ✦ *Email PBAC to raise issue of Blinatumomab vials only yielding 35mcg*
 - ✦ George @ Fred

Action Items

- *XML Subsets high level detailed design to be published*
- *Do comparison of tools used by industry to process XML*

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Meeting Close

- Next meeting