#BetterGlobalHealth

Today's Agenda:

- **What's New**
- **What's Coming**
- **Q&A**

Meet Numbat

Numbat's Range & Relatives
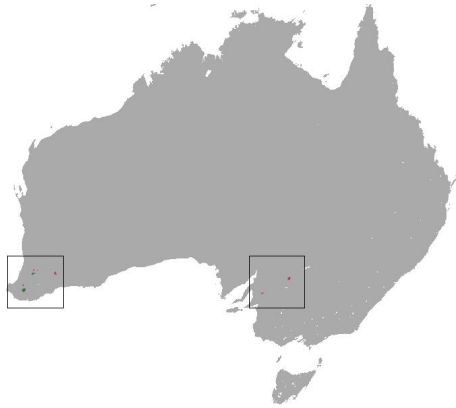
Security Issue (Previously Reported)

smile CDR

- A Cross-Site-Scripting (XSS) vulnerability was fixed in the August (Manticore) release but the CVE was delayed

- This issue has been assigned number CVE-2020-24301

- Testpage/FHIRWeb users on a version prior to Manticore are recommended to upgrade ASAP

✔ HAPI FHIR

✔ Smile CDR

SearchBuilder Enhancements

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- SearchBuilder transforms FHIR searches into SQL statements

- This module was completely rewritten outside of Hibernate for better control over SQL

- Performance gains for some complex queries are 10x

- Thanks to UPMCE for helping us to stabilize this feature

✔ HAPI FHIR: Enabled By Default (can be disabled)

✔ Smile CDR: Disabled By Default (can be enabled)

EMPI Enhancements

- Previous experimental EMPI has been **completely removed** and rewritten

- Native FHIR Identifier matchers added

- $empi-clear operation performance dramatically improved

- Many bugs fixed

✔ HAPI FHIR

✔ Smile CDR

RDF Support

- Support for RDF/Turtle encoding has been added

- Thanks to Josh Collins and Eric Prud'hommeaux of Janeiro Digital!

✔ HAPI FHIR

✔ Smile CDR

JD JANEIRO DIGITAL

Terminology Service Enhancements

- Integration with remote terminology services optimized significantly

- Multi-version support added! Version-aware terminology services are now 90% complete, covering CodeSystem, ValueSet, and ConceptMap

- Support for filtered views on pre-expanded ValueSets has been added

✔ HAPI FHIR

✔ Smile CDR

SAML

- Smile CDR Administrative Web UIs can now be secured with SAML

- FHIR Endpoints not included, although a SAML-SMART bridge is being considered

HAPI FHIR

✔ Smile CDR

Channel Import

- New feature allows a channel (JMS / Kafka) to be used as a FHIR repository data source

- FHIR resources are consumed and stored as they arrive on the channel

HAPI FHIR

✔ Smile CDR

Realtime Export

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- Realtime Export allows a denormalized and user-defined database schema to be kept up-to-date based on data in the FHIR repository

- Primary use case is reporting - Others may be possible too

HAPI FHIR

✔ Smile CDR

MongoDB Enhancements

- Resource.meta is now stored and indexed

- Support for _id search parameter added

- Support for _include=* added

- Better support for concurrent data creation

HAPI FHIR

✔ Smile CDR

Misc SMART / OpenID Connect Enhancements

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- Federated OAuth2 Mode

- Custom Claims API

- Custom Launch Contexts API

- Consent revocation web UI

HAPI FHIR

✔ Smile CDR

What's Next

Zero Downtime Upgrades

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- Beginning with 2020.11.R01 we are committing to a zero-downtime upgrade strategy

- Upgrades from 2020.11.R01 and to major releases within two releases will be supported without requiring a downtime on clustered systems

- More details at the next webinar

✔ HAPI FHIR

✔ Smile CDR

EMPI Enhancements

- *EMPI* is being renamed to *MDM* in order to provide matching for anyh appropriate FHIR resource type

- Source based survivorship rules can now be configured in order to maintain a Golden Record of best known data

✔ HAPI FHIR

✔ Smile CDR

CQL

- A new collaboration with Intrahealth and Digital Square has now kicked off

- Goals are: Native, fully integrated, performance CQL execution from the HAPI FHIR and Smile CDR servers

✔ HAPI FHIR

✔ Smile CDR

New Website Coming Soon...

smile CDR

- Watch the Smile CDR website for our upcoming relaunch, with more use cases, more whitepapers, and more **surprises**...

Thanks!

Q&A