CMS Connectathon

CARIN IG for Digital Insurance Card
Agenda

• Track Leads
• Track Logistics
• Timeline of Activities
• Background
• Track Purpose and Goals
• Scenario
• Implementer Roles
Track Leads

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If you have questions, please email or send a Zulip chat message!
Track Logistics

Track Page:
https://confluence.hl7.org/display/FHIR/2023+-+07+CARIN+IG+For+Digital+Insurance+Card
## Timeline of Activities

### July 19

<table>
<thead>
<tr>
<th>Start Time</th>
<th>End Time</th>
<th>Session Type</th>
<th>Session Title</th>
<th>Session Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM</td>
<td>3:05 PM</td>
<td>General Session</td>
<td>Welcome / Track Kick Off and Intro</td>
<td>Welcome and introduction to the track</td>
</tr>
<tr>
<td>3:05 PM</td>
<td>3:30 PM</td>
<td>IG Overview</td>
<td>CARIN Digital Insurance IG &amp; SHC/SHL Overview</td>
<td>An in depth overview of the IG and proposed future updates</td>
</tr>
<tr>
<td>3:30 PM</td>
<td>4:00 PM</td>
<td>Office Hours</td>
<td>Ask the IG Leads Anything</td>
<td>Office hours to ask the IG leads questions</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>5:00 PM</td>
<td>Testing</td>
<td>Testing</td>
<td>Testing of the proposed futures updates to the IG</td>
</tr>
</tbody>
</table>

### July 20

<table>
<thead>
<tr>
<th>Start Time</th>
<th>End Time</th>
<th>Session Type</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>1:40 PM</td>
<td>2:00 PM</td>
<td>Track Highlight</td>
<td>CARIN IG for Blue Button</td>
</tr>
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</table>
Background
CARIN Digital Insurance Cards IG Review

• Defines required data elements from the card
• Maps required elements to FHIR data profile
• Defines consumer access use case:
  - Consumer access to the digital insurance card via mobile apps or other third party stewards
    - Patient access apps and others access insurance card data via SMART on FHIR API
  - Can also support patient-directed access to providers via FHIR API and SMART Auth flow
SMART Health Cards Review

- FHIR bundle contains the clinical data payload
  - Specific profiles exist for immunizations and lab results, but any FHIR bundle will work
  - https://build.fhir.org/ig/HL7/fhir-shc-vaccination-ig/
- Verifiable Credential (W3C) standard is used for signing, issuing, and presenting
- Provided as QR code, .smart-health-card file, or via FHIR API
- Trust Framework determines and provides the listing of trusted issuers
  - e.g. https://github.com/the-commons-project/vci-directory
- Free and open source validation tools verify and extract data

SMART Health IT, VCI | https://spec.smarthealth.cards
SMART Health Links Review

- Expands the SMART Health Cards protocol, so users can share links to:
  - A SMART Health Card that is too big to fit in a QR
  - A SMART Health Card that changes over time or is generated in real time
  - Bundles of data such as FHIR bundles or SMART Health Cards from multiple sources
  - Provision access to SMART on FHIR APIs for comprehensive sharing

- WIP Use cases:
  - Complete immunization record
  - International Patient Summary (IPS)
  - Insurance card
  - Advanced directives
  - Vital records

Argonaut, SMART Health IT, VCI | [https://docs.smarthealthit.org/smart-health-links/](https://docs.smarthealthit.org/smart-health-links/)
SMART Health Links Technical Review

- FHIR bundles contain the clinical data payload
- SMART Health Cards or FHIR bundles are hosted in the cloud
  - Data are encrypted, can expire, can be passcode protected
- SMART Health Link provides access to artifacts, including decryption key
- Shared as QR code or URL, can include information about web viewer
- Free and open source tools verify and extract data
SMART Health Links for CARIN Digital Insurance Card

- Payors create digital insurance card, make it available to members
  - Generate the FHIR bundle defined by the CARIN IG
  - Generate SMART Health Link for a signed copy of the insurance FHIR data
  - Provide to members to import as a QR code, download button, or link
- Providers accept the insurance cards in online or in person check-in processes
  - Accept links or scan QR codes via tablets or webcams, check in kiosks, and in online check-in processes
  - Retrieve and validate the FHIR bundle
  - Integrate (or lean on vendors to integrate) data into existing workflows
- App and wallet makers provide people tools to manage their cards
  - Import cards, add to digital wallets, display QRs for sharing, links for pasting
Track Purpose and Goals

What’s the purpose of hosting this Implementation track? What do you hope to achieve?

– Test and gather feedback on the Implementation Guide.
– Test the new SMART Health Card/Link Use Case.

What are the goals?

– Generation, capture, display, and sharing of the SMART Health Link.
– Consume and validate SHL from QR code or link, display and confirm details.
Main Scenario

Scenario: PHR/ wallet/ patient apps ingests SMART Health Link from Data Holder.

• **Action**: Data holder generates a digital insurance card as a SMART Health Link.
• **Precondition**: Data holder has capability to generate a SMART Health Link.
• **Success Criteria #1**: PHR/ wallet/ patient apps captures and display the SMART Health Link digital insurance card on the device.
• **Bonus Point #1**: Provider/platform ingests and validates SHL from QR code or link, displays and confirms details.
• **Bonus Point #2**: Successful testing of the full workflow of payer to individual to provider.
Implementer Roles

- **Data holders**: generate a SMART Health Link
- **PHR/ wallet/ patient apps**: capture, display, store, share the SMART Health Link
- **Providers/ platforms**: ingest and validate the SMART Health Link