eCMS

For scenario 8 - details related to the eConsent Management System (eCMS) test environment that will be supported for the connectathon follows.

The following steps are proposed for track participants to demonstrate that they have implemented the eCMS flow in the supported environment successfully.

**Step 1:** Use API to see if consent is on file (should not be one)

**Step 2:** Use interface to create a consent on file (embed-able consent widget or Participant developed consent creation form)

**Step 3:** Use API to see if consent is on file (should be one now)

**Step 4:** Retrieve the consent resources from the FHIR server and ensure match with what is displayed in the UI

**Step 5:** Add or update consent using the FHIR calls and ensure match with the UI

**See Consent Widget** page for information about the embed-able HTML5 [Consent Creation Form](https://bitbucket.org/jeastman/consumer-centered-data-exchange/wiki/Consent%20widget).

**See 'Downloads'** to get the API documentation for eCMS - filename: "FHIR STU3 API V2"

These are the four resource types involved in this scenario:

**Consent** (created by embed-able form supplied)

**Patient** (based on persona data to be provided)

**Organization** (from reference data to be provided with personas)

**Practitioner** (from reference data to be provided with personas)

**See 'Downloads'** for a spreadsheet containing the reference Identifiers that can be used in relation to the eCMS - filename: "Affiliated Health Providers\_acrsdelivery\_20170703\_v2"

**See 'Downloads'** for a word document containing persona data as well "MiHIN FHIR STU3 Consent Resource Persona Testing Materials v2 09-08-17"

Consent: (GET) URL: <https://demo.mihin.net/MiHINFHIRServer/Consent?firstName=Joan&lastName=Chen&gender=F&zip=49503&dob=19870906&ck=ah7xjurafl4bdznumnupokdyn676tqrp7pkz2ojk>

{"resourceType":"Bundle","entry":[{"resource":{"resourceType":"Consent","extension":[{"url":"http://mihin.org/fhir/extension/consent/","valueCodeableConcept":{"coding":[{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"idNumber","display":"4432"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"allInformationFlag","display":"true"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"exceptInformationFlag","display":"false"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"exceptInformationText"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"consentDate"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"consentGivenName","display":"J Chen"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"consentGivenDate","display":"08/22/2017"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"consentRelationshipCode","display":"SELF"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"withdrawConsentFlag","display":"true"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"withdrawAllConsentFlag","display":"false"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"withdrawAllConsentName"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"withdrawAllConsentDate"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"withdrawAllConsentRelationshipCode"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"verbalWithdrawConsentName"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"verbalWithdrawConsentDate"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"individualProvidedCopyFlag","display":"false"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-attribute","code":"individualDeclinedCopyFlag","display":"false"}]}}],"status":"active","category":[{"coding":[{"code":"MDHHS-5515"}]}],"patient":{"id":"JoanChenF4950319870906","reference":"Patient/1122","display":"Joan Chen"},"except":[{"type":"permit","actor":[{"role":{"coding":[{"code":"PROV"}]},"reference":{"display":"Group/-1"}}]},{"type":"permit","actor":[{"role":{"coding":[{"code":"PROV"}]},"reference":{"display":"Practitioner/9999992244"}}]},{"type":"permit","actor":[{"role":{"coding":[{"code":"PROV"}]},"reference":{"display":"Practitioner/9999992130"}}]},{"type":"permit","actor":[{"role":{"coding":[{"code":"PROV"}]},"reference":{"display":"Practitioner/9999992255"}}]},{"type":"permit","actor":[{"role":{"coding":[{"code":"PROV"}]},"reference":{"display":"Practitioner/9999992127"}}]},{"type":"permit","actor":[{"role":{"coding":[{"code":"PROV"}]},"reference":{"display":"Practitioner/9999991038"}}]},{"type":"permit","actor":[{"role":{"coding":[{"code":"PROV"}]},"reference":{"display":"Organization/1.2.3.4.5.9.99.999.9999.1379"}}]},{"type":"permit","actor":[{"extension":[{"url":"http://mihin.org/fhir/extension/consent/","valueCodeableConcept":{"coding":[{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-actor-attribute","code":"relatedPersonFirstName","display":"Scott"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-actor-attribute","code":"relatedPersonLastName","display":"Smith"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-actor-attribute","code":"relatedPersonBirthDate","display":"1970-02-02"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-actor-attribute","code":"relatedPersonGender","display":"M"},{"system":"http://mihin.org/fhir/extension/consent/scd-consent-form-actor-attribute","code":"relatedPersonZipCode","display":"92821"}]}}],"role":{"coding":[{"code":"CONT"}]},"reference":{"display":"RelatedPerson/1"}}]},{"type":"deny","actor":[{"role":{"coding":[{"code":"PROV"}]},"reference":{"display":"Practitioner/9999992133"}}]},{"type":"deny","actor":[{"role":{"coding":[{"code":"PROV"}]},"reference":{"display":"Practitioner/9999992132"}}]},{"type":"deny","actor":[{"role":{"coding":[{"code":"PROV"}]},"reference":{"display":"Practitioner/9999992131"}}]}]}}]}

For those Participants that develop their own consent form the following are examples of API calls to the eCMS for a:

* Button on the Participants UI to search for organizations (embed-able form provided supports this capability)
* Button on the Participants UI to search for Practitioner (embed-able form provided supports this capability)

Organization: (GET) URL: <https://demo.mihin.net/MiHINFHIRServer/OrganizationDetailsById?oid=1.2.3.4.5.9.99.999.9999.1397>{"resourceType":"Organization","id":"1.2.3.4.5.9.99.999.9999.1397","active":true,"name":"Michigan Tobacco Cessation Program","telecom":[{"value":"800-555-7187","use":"work"}],"address":[{"line":["4827 Tollstone Rd"],"city":"Livonia","state":"MI","postalCode":"48151"}]}

Practitioner (GET) URL: <https://demo.mihin.net/MiHINFHIRServer/PractitionerLookupByNPI?npi=9999992244> {"resourceType":"Bundle","entry":[{"resource":{"resourceType":"Practitioner","id":"[9999992244](https://bitbucket.org/jeastman/consumer-centered-data-exchange/commits/9999992244)","name":[{"family":"Hasslen","given":["Sarah"]}],"qualification":[{"issuer":{"id":"1.2.3.4.5.9.99.999.9999.1315","reference":"Organization/1.2.3.4.5.9.99.999.9999.1315","display":"Wyoming Community Pharmacy"}}]}}]}

An example of adding a new patient to the eCMS:

Patient: (POST) URL: <https://demo.mihin.net/MiHINFHIRServer/ConsumerInformation?firstName=Alice&lastName=Vargas&gender=F&dob=19900510&zip=48114&ck=088B7140FF9840368455BE6871637395> {"resourceType":"Patient","extension":[{"url":"http://mihin.org/fhir/extension/","valueCodeableConcept":{"coding":[{"system":"http://mihin.org/fhir/extension/","code":"commonKey","display":"088B7140FF9840368455BE6871637395"}]}},{"url":"http://mihin.org/fhir/extension/ifc","valueCodeableConcept":{"coding":[{"system":"http://mihin.org/fhir/extension/ifc","code":"ifc","display":"Common\_Key,First\_Name,Last\_Name,Gender,DOB,ZIP,Use\_Case,Integration\_Profile,Content\_Profile,Address\n088B7140FF9840368455BE6871637395,Alice,Vargas,F,1990-05-10,48114,1.1.1.1,DIRECT,FHIR;CSV,doctor@directt.mihin.org\n"}]}}],"name":[{"family":"Vargas","given":["Alice","S"]}],"gender":"female","birthDate":"1990-05-10","address":[{"postalCode":"48114"}]}

Example of Step 1: expected behavior

NO PATIENT / NO CONSENT: <https://demo.mihin.net/MiHINFHIRServer/HasConsent?firstName=Alice&lastName=Vargas&gender=F&dob=19900510&zip=48114&ck=088B7140FF9840368455BE6871637395> RESPONSE: Patient has consent on file: NO

Example of Step 3: expected behavior CONSENT FOUND: <https://demo.mihin.net/MiHINFHIRServer/HasConsent?firstName=Tricia&lastName=Franklin&gender=F&dob=19870115&zip=48341&ck=ah7xct5hfl4bdznumnupokdyn67ruuxusrdj4qgc> RESPONSE: Patient has consent on file: YES