

User Stories for MS CRM APIs - Capability

/Capability

User Story

As an API user, I want to retrieve all capabilities in a paged list

Acceptance Criteria

- a user should be able to retrieve all capability records in CRM in a paged list
- if there are no capability records, then an empty list should be returned
- a user should be able to specify how many records (page size) are returned at a time
- a user should be able to specify an offset (index) into the total records
- if a user specifies an invalid value for how many records (page size), it should use a default value (20)
- if a user specifies an invalid value for an offset (index), it should use a default value (1)

Test Cases

The one where...	Test Case
I retrieve all capabilities in one page	Given: there are (1, 2, 19, 20) capability records in CRM (C00, C01, ..) When: I call the API with default parameters Then: all capability records (C00, C01, ..) are returned And: a HTTP status code of 200 is returned
there are no capabilities	Given: there are no capability records in CRM When: I call the API with default parameters Then: an empty list of capability records is returned And: a HTTP status code of 200 is returned
I retrieve the first 3 capabilities	Given: there are 66 capability records in CRM (C00 .. C65) When: I call the API with a page size of 3 and an index of 1 Then: capability records (C00, C01, C02) are returned And: a HTTP status code of 200 is returned
I retrieve the second 3 capabilities	Given: there are 66 capability records in CRM (C00 .. C65) When: I call the API with a page size of 3 and an index of 2 Then: capability records (C03, C04, C05) are returned And: a HTTP status code of 200 is returned
I specify an invalid page size	Given: there are 66 capability records in CRM (C00 .. C65) When: I call the API with a page size of (-1, 0, 21, 60) Then: first 20 (default page size) capability records (C00 .. C19) are returned And: a HTTP status code of 200 is returned
I specify an invalid index	Given: there are 66 capability records in CRM (C00 .. C65) When: I call the API with an index of (-1, 0) Then: first 20 (default page size) capability records (C00 .. C19) are returned And: a HTTP status code of 200 is returned

/Capability/Create

User Story

As an API user, I want to create a new capability

Acceptance Criteria

- a user should be able to create a new capability and have this new capability returned to them
- if the previous capability does not exist, then an error code should be returned

Test Cases

The one where...	Test Case
I create a new capability	Given: there are no capability records in CRM And: I create an in-memory capability record (C00) When: I call the API with a capability record (C00) Then: a capability record (C00) is returned with its CRM identifier And: a HTTP status code of 200 is returned
I create a new capability with a previous version	Given: there is a capability record in CRM (C00) And: I create an in-memory capability record (C01) which references a previous version (C00) When: I call the API with a capability record (C01) Then: a capability record (C01) is returned with its CRM identifier And: a HTTP status code of 200 is returned
the previous version is not in CRM	Given: there are no capability records in CRM And: I create an in-memory capability record (C00) And: I create an in-memory capability record (C01) which references a previous version (C00) When: I call the API with a capability record (C01) Then: no capability record is returned And: a HTTP status code of 404 is returned

/Capability/Update

User Story

As an API user, I want to change information for an existing capability for an organisation

Acceptance Criteria

- a user should be able to change information about an existing capability for an organisation
- if the previous capability does not exist, then an error code should be returned
- if the capability does not exist, then an error code should be returned

Test Cases

The one where...	Test Case
I update a capability	Given: there is a capability record in CRM (C00) And: I create an in-memory capability record (C00a) based on an existing record (C00) When: I call the API with a capability record (C00a) Then: a HTTP status code of 200 is returned

the capability is not in CRM	Given: there are no capability records in CRM And: I create an in-memory capability record (C00) When: I call the API with a capability record (C00) Then: a HTTP status code of 404 is returned
the previous version is not in CRM	Given: there is a capability record in CRM (C00) And: I create an in-memory capability record (C01) And: I create an in-memory capability record (C00a) based on an existing record (C00) which references a previous version (C01) When: I call the API with a capability record (C00) Then: a HTTP status code of 404 is returned

/Capability/ById/{id}

User Story

As an API user, I want to get a previous version of an existing capability

Acceptance Criteria

- a user should be able retrieve a previous version of an existing capability
- if a previous version does not exist, then an error code should be returned

Test Cases

The one where...	Test Case
I retrieve a capability	Given: there is a capability record in CRM (C00) When: I call the API with a framework identifier (C00) Then: a capability record is returned (C00) And: a HTTP status code of 200 is returned
the capability is not in CRM	Given: there are no capability records in CRM And: I create an in-memory capability record (C00) When: I call the API with a capability identifier (C00) Then: no capability record is returned And: a HTTP status code of 404 is returned

/Capability/ByFramework/{frameworkId}

User Story

As an API user, I want to retrieve all capabilities with a given framework, in a paged list

Acceptance Criteria

- a user should be able to retrieve all capabilities with a given framework, in a paged list
- if there are no capability records, then an empty list should be returned
- a user should be able to specify how many records (page size) are returned at a time
- a user should be able to specify an offset (index) into the total records
- if a user specifies an invalid value for how many records (page size), it should use a default value (20)
- if a user specifies an invalid value for an offset (index), it should use a default value (1)
- if the framework does not exist, then an error code should be returned

Test Cases

The one where...	Test Case
I retrieve all capabilities in one page	<p>Given: there is a framework record in CRM (F00)</p> <p>And: there are (1, 2, 19, 20) capability records (C00, ...) in CRM</p> <p>And: a frameworks (F00) is associated with all capability records (C00 ..) in CRM</p> <p>When: I call the API with a CRM identifier of a framework (F00)</p> <p>Then: all capability records (C00 ..) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
the framework is not in CRM	<p>Given: there are no framework records in CRM</p> <p>And: I create an in-memory framework record (F00)</p> <p>When: I call the API with a CRM identifier of a framework (F00)</p> <p>Then: an empty list of capability records is returned</p> <p>And: a HTTP status code of 404 is returned</p>
I retrieve the first 3 capabilities	<p>Given: there is a framework record in CRM (F00)</p> <p>And: there are 66 capability records (C00, ... C65) in CRM</p> <p>And: a framework (F00) is associated with all capability records (C00 .. C65) in CRM</p> <p>When: I call the API with a page size of 3 and an index of 1 and CRM identifier of a framework (F00)</p> <p>Then: capability records (C00, C01, C02) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
I retrieve the second 3 frameworks	<p>Given: there is a framework record in CRM (F00)</p> <p>And: there are 66 capability records (C00, ... C65) in CRM</p> <p>And: a framework (F00) is associated with all capability records (C00 .. C65) in CRM</p> <p>When: I call the API with a page size of 3 and an index of 2 and CRM identifier of a framework (F00)</p> <p>Then: capability records (C03, C04, C05) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
I specify an invalid page size	<p>Given: there is a framework record in CRM (F00)</p> <p>And: there are 66 capability records (C00, ... C65) in CRM</p> <p>And: a framework (F00) is associated with all capability records (C00 .. C65) in CRM</p> <p>When: I call the API with a page size of (-1, 0, 21, 60) and CRM identifier of a framework (F00)</p> <p>Then: first 20 (default page size) capability records for (C00 .. C19) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
I specify an invalid index	<p>Given: there is a framework record in CRM (F00)</p> <p>And: there are 66 capability records (C00, ... C65) in CRM</p> <p>And: a framework (F00) is associated with all capability records (C00 .. C65) in CRM</p> <p>When: I call the API with an index of (-1, 0) and CRM identifier of a capability (C00)</p> <p>Then: first 20 (default page size) capability records for (C00 .. C19) are returned</p> <p>And: a HTTP status code of 200 is returned</p>

/Capability/ByStandard/{standardId}

User Story

As an API user, I want to get existing capability/s on which are related to a standard in a paged list, given the CRM identifier of the standard

Acceptance Criteria

- a user should be able retrieve all capability/s associated with a standard
- if the standard does not exist, then an error code should be returned
- a user should be able to specify how many records (page size) are returned at a time
- a user should be able to specify an offset (index) into the total records
- if a user specifies an invalid value for how many records (page size), it should use a default value (20)
- if a user specifies an invalid value for an offset (index), it should use a default value (1)

Test Cases

The one where...	Test Case
I retrieve all capabilities in one page	<p>Given: there are (1, 2, 19, 20) capability records (C00, ...) in CRM</p> <p>And: there is a standard record (S00) in CRM</p> <p>And: a standard record (S00) is associated with all capabilities (C00, ...) in CRM</p> <p>When: I call the API with a CRM identifier of a standard (S00)</p> <p>Then: all capability records (C00, ..) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
the standard is not in CRM	<p>Given: there are (1, 2, 19, 20) capability records (C00, ...) in CRM</p> <p>And: I create an in-memory standard record (S00)</p> <p>When: I call the API with a CRM identifier of a standard (S00)</p> <p>Then: an empty list of capability records is returned</p> <p>And: a HTTP status code of 404 is returned</p>
I retrieve the first 3 capabilities	<p>Given: there are 66 capability records (C00, ... C65) in CRM</p> <p>And: there is a standard record (S00) in CRM</p> <p>And: a standard record (S00) is associated with all capabilities (C00, ... C65) in CRM</p> <p>When: I call the API with a page size of 3 and an index of 1 and CRM identifier of a standard (S00)</p> <p>Then: capability records (C00, C01, C02) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
I retrieve the second 3 capabilities	<p>Given: there are 66 capability records (C00, ... C65) in CRM</p> <p>And: there is a standard record (S00) in CRM</p> <p>And: a standard record (S00) is associated with all capabilities (C00, ... C65) in CRM</p> <p>When: I call the API with a page size of 3 and an index of 2 and CRM identifier of a standard (S00)</p> <p>Then: capability records (C03, C04, C05) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
I specify an invalid page size	<p>Given: there are 66 capability records (C00, ... C65) in CRM</p> <p>And: there is a standard record (S00) in CRM</p> <p>And: a standard record (S00) is associated with all capabilities (C00, ... C65) in CRM</p> <p>When: I call the API with a page size of (-1, 0, 21, 60) and CRM identifier of a standard (S00)</p> <p>Then: first 20 (default page size) capability records for (C00 .. C19) are returned</p> <p>And: a HTTP status code of 200 is returned</p>

I specify an invalid index

Given: there are 66 capability records (C00, ... C65) in CRM

And: there is a standard record (S00) in CRM

And: a standard record (S00) is associated with all capabilities (C00, ... C65) in CRM

When: I call the API with an index of (-1, 0) and CRM identifier of a standard (S00)

Then: first 20 (default page size) capability records for (C00 .. C19) are returned

And: a HTTP status code of 200 is returned