User Stories for MS CRM APIs - Standard

/Standard

User Story

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

Acceptance Criteria

- a user should be able to retrieve all standards records in CRM in a paged list
- if there are no standards 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 standards in one page	**Given**: there are (1, 2, 19, 20) standard records in CRM (S00, S01, ..) **When**: I call the API with default parameters **Then**: all standard records (S00, S01, ..) are returned **And**: a HTTP status code of 200 is returned
there are no standards	**Given**: there are no standard records in CRM **When**: I call the API with default parameters **Then**: an empty list of standard records is returned **And**: a HTTP status code of 200 is returned
I retrieve the first 3 standards	**Given**: there are 66 standard records in CRM (S00 .. S65) **When**: I call the API with a page size of 3 and an index of 1 **Then**: standard records (S00, S01, S02) are returned **And**: a HTTP status code of 200 is returned
I retrieve the second 3 standards	**Given**: there are 66 standard records in CRM (S00 .. S65) **When**: I call the API with a page size of 3 and an index of 2 **Then**: standard records (S03, S04, S05) are returned **And**: a HTTP status code of 200 is returned
I specify an invalid page size	**Given**: there are 66 standard records in CRM (S00 .. S65) **When**: I call the API with a page size of (-1, 0, 21, 60) **Then**: first 20 (default page size) standard records (S00 .. S19) are returned **And**: a HTTP status code of 200 is returned
I specify an invalid index	**Given**: there are 66 standard records in CRM (S00 .. S65) **When**: I call the API with an index of (-1, 0) **Then**: first 20 (default page size) standard records (S00 .. S19) are returned **And**: a HTTP status code of 200 is returned

/Standard/Create

User Story

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

Acceptance Criteria

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

Test Cases

The one where...	Test Case
I create a new standard	**Given**: there are no standard records in CRM **And**: I create an in-memory standard record (S00) **When**: I call the API with a standard record (S00) **Then**: a standard record (S00) is returned with its CRM identifier **And**: a HTTP status code of 200 is returned
I create a new standard with a previous version	**Given**: there is a standard record in CRM (S00) **And**: I create an in-memory standard record (S01) which references a previous version (S00) **When**: I call the API with a standard record (S01) **Then**: a standard record (S01) 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 standard records in CRM **And**: I create an in-memory standard record (S00) **And**: I create an in-memory standard record (S01) which references a previous version (S00) **When**: I call the API with a standard record (S01) **Then**: no standard record is returned **And**: a HTTP status code of 404 is returned

/Standard/Update

User Story

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

Acceptance Criteria

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

Test Cases

The one where...	Test Case
I update a standard	**Given**: there is a standard record in CRM (S00) **And**: I create an in-memory standard record (S00a) based on an existing record (S00) **When**: I call the API with a standard record (S00a) **Then**: a HTTP status code of 200 is returned

the standard is not in CRM	**Given**: there are no standard records in CRM
	And: I create an in-memory standard record (S00)
	When: I call the API with a standard record (S00)
	And: a HTTP status code of 404 is returned
the previous version is not in CRM	**Given**: there is a standard record in CRM (S00)
	And: I create an in-memory standard record (S01)
	And: I create an in-memory standard record (S00a) based on an existing record (S00) which references a previous version (S01)
	When: I call the API with a standard record (S01)
	Then: a HTTP status code of 404 is returned

/Standard/ById/{id}

User Story

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

Acceptance Criteria

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

Test Cases

The one where...	Test Case
I retrieve a standard	**Given**: there is a standard record in CRM (S00)
	When: I call the API with a standard identifier (S00)
	Then: a standard record is returned (S00)
	And: a HTTP status code of 200 is returned
the standard is not in CRM	**Given**: there are no standard records in CRM
	And: I create an in-memory standard record (S00)
	When: I call the API with a standard identifier (S00)
	Then: no standard record is returned
	And: a HTTP status code of 404 is returned

/Standard/ByCapability/{capabilityId}

User Story

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

Acceptance Criteria

- a user should be able to retrieve all standard with a given capability, in a paged list
- if there are no standard 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 capability does not exist, then an error code should be returned

Test Cases

The one where...	Test Case
I retrieve all standards in one page	**Given**: there is a capability record in CRM (C00) **And**: there are (1, 2, 19, 20) standard records (S00, …) in CRM **And**: a capability (C00) is associated with all standard records (S00 ..) in CRM **When**: I call the API with a CRM identifier of a capability (C00) **Then**: all standard records (S00 ..) are returned **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 CRM identifier of a capability (C00) **Then**: an empty list of standard records is returned **And**: a HTTP status code of 404 is returned
I retrieve the first 3 standards	**Given**: there is a capability record in CRM (C00) **And**: there are 66 standard records (S00, … S65) in CRM **And**: a capability (C00) is associated with all standard records (S00 .. S65) in CRM **When**: I call the API with a page size of 3 and an index of 1 and CRM identifier of a capability (C00) **Then**: standard records (S00, S01, S02) are returned **And**: a HTTP status code of 200 is returned
I retrieve the second 3 standards	**Given**: there is a capability record in CRM (C00) **And**: there are 66 standard records (S00, … S65) in CRM **And**: a capability (C00) is associated with all standard records (S00 .. S65) in CRM **When**: I call the API with a page size of 3 and an index of 2 and CRM identifier of a capability (C00) **Then**: standard records (S03, S04, S05) are returned **And**: a HTTP status code of 200 is returned
I specify an invalid page size	**Given**: there is a capability record in CRM (C00) **And**: there are 66 standard records (S00, … S65) in CRM **And**: a capability (C00) is associated with all standard records (S00 .. S65) in CRM **When**: I call the API with a page size of (-1, 0, 21, 60) and CRM identifier of a capability (C00) **Then**: first 20 (default page size) standard records for (S00 .. S19) are returned **And**: a HTTP status code of 200 is returned
I specify an invalid index	**Given**: there is a capability record in CRM (C00) **And**: there are 66 standard records (S00, … S65) in CRM **And**: a capability (C00) is associated with all standard records (F00 .. F65) in CRM **When**: I call the API with an index of (-1, 0) and CRM identifier of a capability (C00) **Then**: first 20 (default page size) standard records for (S00 .. S19) are returned **And**: a HTTP status code of 200 is returned