

# User Stories for MS CRM APIs - Link Creation

## Link Creation

As an API user, I need to create a link between various entities.

**/CapabilityFramework/Create/{capabilityId}/{frameworkId}**

### User Story

As an API user, I want to create a capability and a framework

### Acceptance Criteria

- a user should be able to create a new link between a capability and a framework
- if either end of the link does not exist, then an error code should be returned
- if the link already exists, then an error code should be returned

### Test Cases

The one where...	Test Case
I create a new link	<b>Given:</b> there is a capability record (Cap00) in CRM <b>And:</b> there is a framework record (Frm00) in CRM <b>When:</b> I call the API with a capability/framework (Cap00/Frm00) combination <b>Then:</b> a link is created between the two entities in CRM <b>And:</b> a HTTP status code of 200 is returned
the link already exists	<b>Given:</b> there is a capability record (Cap00) in CRM <b>And:</b> there is a framework record (Frm00) in CRM <b>And:</b> there is a link between a capability (Cap00) and a framework (Frm00) in CRM <b>When:</b> I call the API with a capability/framework (Cap00/Frm00) combination <b>Then:</b> no additional links are created between the two entities in CRM <b>And:</b> a HTTP status code of 500 is returned
the capability is not in CRM	<b>Given:</b> there are no capability records in CRM <b>And:</b> I create an in-memory capability record (Cap00) <b>And:</b> there is a framework record (Frm00) in CRM <b>When:</b> I call the API with a capability/framework (Cap00/Frm00) combination <b>Then:</b> no additional links are created between the two entities in CRM <b>And:</b> a HTTP status code of 404 is returned
the framework is not in CRM	<b>Given:</b> there are no framework records in CRM <b>And:</b> I create an in-memory framework record (Frm00) <b>And:</b> there is a capability record (Cap00) in CRM <b>When:</b> I call the API with a capability/framework (Cap00/Frm00) combination <b>Then:</b> no additional links are created between the two entities in CRM <b>And:</b> a HTTP status code of 404 is returned

**/CapabilityStandard/Create/{capabilityId}/{standardId}**

## User Story

As an API user, I want to create a capability and a standard

## Acceptance Criteria

- a user should be able to create a new link between a capability and a standard
- if either end of the link does not exist, then an error code should be returned
- if the link already exists, then an error code should be returned

## Test Cases

The one where...	Test Case
I create a new link	<b>Given:</b> there is a capability record (Cap00) in CRM <b>And:</b> there is a framework record (Frm00) in CRM <b>When:</b> I call the API with a capability/framework (Cap00/Frm00) combination <b>Then:</b> a link is created between the two entities in CRM <b>And:</b> a HTTP status code of 200 is returned
the link already exists	<b>Given:</b> there is a capability record (Cap00) in CRM <b>And:</b> there is a framework record (Frm00) in CRM <b>And:</b> there is a link between a capability (Cap00) and a framework (Frm00) in CRM <b>When:</b> I call the API with a capability/framework (Cap00/Frm00) combination <b>Then:</b> no additional links are created between the two entities in CRM <b>And:</b> a HTTP status code of 500 is returned
the capability is not in CRM	<b>Given:</b> there are no capability records in CRM <b>And:</b> I create an in-memory capability record (Cap00) <b>And:</b> there is a standard record (Std00) in CRM <b>When:</b> I call the API with a capability/framework (Cap00/Std00) combination <b>Then:</b> no additional links are created between the two entities in CRM <b>And:</b> a HTTP status code of 404 is returned
the standard is not in CRM	<b>Given:</b> there are no standard records in CRM <b>And:</b> I create an in-memory standard record (Std00) <b>And:</b> there is a capability record (Cap00) in CRM <b>When:</b> I call the API with a capability/standard (Cap00/Std00) combination <b>Then:</b> no additional links are created between the two entities in CRM <b>And:</b> a HTTP status code of 404 is returned

## /FrameworkStandard/Create/{frameworkId}/{standardId}

## User Story

As an API user, I want to create a framework and a standard

## Acceptance Criteria

- a user should be able to create a new link between a framework and a standard
- if either end of the link does not exist, then an error code should be returned
- if the link already exists, then an error code should be returned

## Test Cases

The one where...	Test Case
I create a new link	<b>Given:</b> there is a framework record (Frm00) in CRM <b>And:</b> there is a standard record (Cap00) in CRM <b>When:</b> I call the API with a framework/standard (Frm00/Std00) combination <b>Then:</b> a link is created between the two entities in CRM <b>And:</b> a HTTP status code of 200 is returned
the link already exists	<b>Given:</b> there is a framework record (Frm00) in CRM <b>And:</b> there is a standard record (Cap00) in CRM <b>And:</b> there is a link between a framework (Frm00) and a standard (Std00) in CRM <b>When:</b> I call the API with a framework/standard (Frm00/Std00) combination <b>Then:</b> no additional links are created between the two entities in CRM <b>And:</b> a HTTP status code of 500 is returned
the framework is not in CRM	<b>Given:</b> there are no framework records in CRM <b>And:</b> I create an in-memory framework record (Frm00) <b>And:</b> there is a standard record (Std00) in CRM <b>When:</b> I call the API with a capability/framework (Frm00/Std00) combination <b>Then:</b> no additional links are created between the two entities in CRM <b>And:</b> a HTTP status code of 404 is returned
the standard is not in CRM	<b>Given:</b> there are no capability records in CRM <b>And:</b> I create an in-memory standard record (Std00) <b>And:</b> there is a framework record (Frm00) in CRM <b>When:</b> I call the API with a capability/framework (Frm00/Std00) combination <b>Then:</b> no additional links are created between the two entities in CRM <b>And:</b> a HTTP status code of 404 is returned

## /FrameworkSolution/Create/{frameworkId}/{solutionId}

### User Story

As an API user, I want to create a framework and a solution

### Acceptance Criteria

- a user should be able to create a new link between a framework and a solution
- if either end of the link does not exist, then an error code should be returned
- if the link already exists, then an error code should be returned

### Test Cases

The one where...	Test Case
I create a new link	<b>Given:</b> there is a framework record (Frm00) in CRM <b>And:</b> there is a solution record (Sol00) in CRM <b>When:</b> I call the API with a framework/solution (Frm00/Sol00) combination <b>Then:</b> a link is created between the two entities in CRM <b>And:</b> a HTTP status code of 200 is returned

the link already exists	<p><b>Given:</b> there is a framework record (Frm00) in CRM</p> <p><b>And:</b> there is a solution record (Sol00) in CRM</p> <p><b>And:</b> there is a link between a solution (Sol00) and a framework (Frm00) in CRM</p> <p><b>When:</b> I call the API with a solution /framework (Sol00/Frm00) combination</p> <p><b>Then:</b> no additional links are created between the two entities in CRM</p> <p><b>And:</b> a HTTP status code of 500 is returned</p>
the framework is not in CRM	<p><b>Given:</b> there are no framework records in CRM</p> <p><b>And:</b> I create an in-memory framework record (Frm00)</p> <p><b>And:</b> there is a solution record (Sol00) in CRM</p> <p><b>When:</b> I call the API with a solution /framework (Sol00/Frm00) combination</p> <p><b>Then:</b> no additional links are created between the two entities in CRM</p> <p><b>And:</b> a HTTP status code of 404 is returned</p>
the solution is not in CRM	<p><b>Given:</b> there are no solution records in CRM</p> <p><b>And:</b> I create an in-memory solution record (Sol00)</p> <p><b>And:</b> there is a framework record (Frm00) in CRM</p> <p><b>When:</b> I call the API with a solution/framework (Sol00/Frm00) combination</p> <p><b>Then:</b> no additional links are created between the two entities in CRM</p> <p><b>And:</b> a HTTP status code of 404 is returned</p>