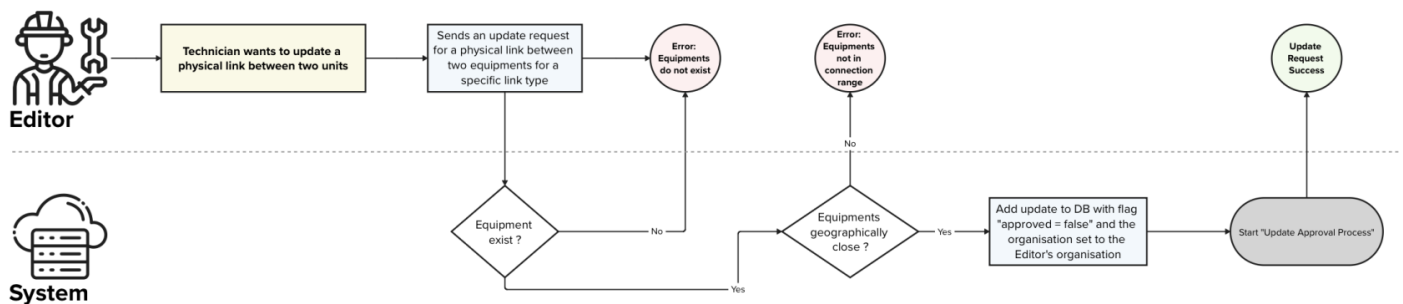


7.5. Send update vertical cabling request process

Update request for a physical link between two equipments



Name	Send update vertical cabling request process
Purpose	Allow Editors to send an update request for a vertical cabling entry between two equipments
Linked user stories	4.46. Editor - Send an update vertical cabling request
APIs used	POST /physical-links
Scope	This process only handles the creation of an update request for a vertical cabling entry between two existing equipments. The process of validating and approving the entry is handled in a dedicated process.
Roles	Organisation Editor, System
Input	- source equipment (mandatory) - destination equipment or destination unit (mandatory) - link type (mandatory) - additional metadata
Output	- confirmation that the update request has been transmitted

Detailed Process description

Main Process

Step	Description	Actor(s)	Input(s)	Output(s)	Decision points
1	An Editor sends a "update vertical cabling request" for two existing equipments and a specific link type.	Editor	- source equipment (mandatory) - destination equipment or destination unit (mandatory) - cable type (mandatory) - additional metadata	-	
2	The System verifies that the two equipments exist	System		- yes / no	If the equipments / unit exist: - the process continues (Step 3) If the equipments / unit do not exist: - An error is returned (E.1. Equipments not found)
3	The System verifies if the equipments / unit are geographically close enough to be connected	System	- equipments / unit addresses	- yes / no	If the equipments / unit are close enough: - the process continues (Step 4) If the equipments / unit are not close enough: - An error is returned (E.2. Equipments out of reach)
4	The System stores the connection in the database, adds the flag "approved = false" and the organisation of the Editor	System	- update vertical cabling request	- connection stored with the flag "approved = false" and linked to the Editor's organisation	
5	The System triggers the approval process for the created connection	System	- stored connection	- approval process is triggered	
6	The Editor gets a confirmation that the update was successfully submitted	Editor	- submission confirmation		

Error Processes

E.1. Equipments or unit not found

Step	Description	Actor(s)	Input(s)	Output(s)	Decision points
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1	System returns an error indicating that one or both equipment(s) or the unit do not exist	System	-	Error: Equipments or unit do not exist	
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E.2. Equipments or unit out of reach

Step	Description	Actor(s)	Input(s)	Output(s)	Decision points
1	System returns an error indicating that the two equipments or unit are not geographically close enough to be connected.	System	-	Error: Equipments or unit not in connection range	

Additional Information

Deleting a cable type in between two equipments or unit

Deleting a cable type between two instances follows the same process as above. In that case the user indicates in the update request that he wants to flag the connection as “deleted = true”.

Exceptions

[400 Bad Request] Invalid input:

If mandatory fields are missing or fields are invalid, the system returns an error message. This includes the case in which one or both equipment(s) do not exist.

[409 Conflict] Equipments or unit out of reach

If the **Editor** attempts to add connection between two equipments or unit that are geographically too far away to be connected, the system should return an error.

[500 Internal Server Error] System Error

If the system fails to save changes due to an internal error, it displays an appropriate message and logs the error for further investigation.

Revision #3

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