

About

About

Suggestions 1, 2, 3, 4 are to be considered as work-in-progress.

Parts of suggestions may be updated, e.g. table and column names (e.g. shortened) etc. It is usually ok, perhaps even good, if a prototype is not perfect. It might be easier to consider it as a prototype then.

See database scripts for details.

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Thoughts / Conclusion

Proper indices and keys are key! to successful suggestions.

All suggestions for refactored database work and may be used. Database tables, diagrams, SQL queries appear less complex and more easy to understand for Suggestions 2-4 than Suggestion 1. Moreover, some additional processing done at time of update for Suggestions 3, 4 that will help performance at time of select. Suggestion 3 perceived as more complex than Suggestion 4.

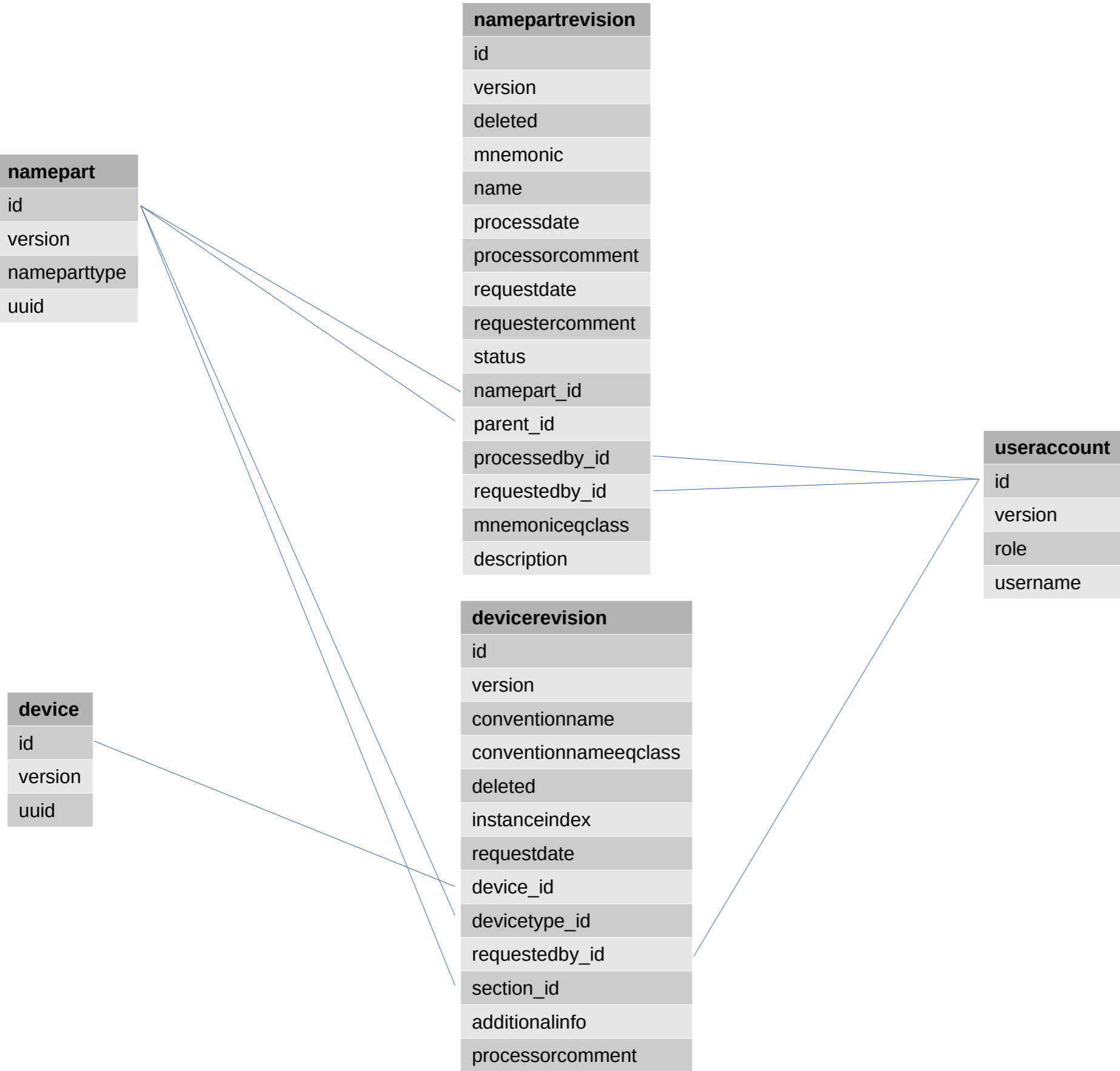
Therefore recommendation to proceed with either Suggestion 4.

No (at least not yet) proof of concept for Suggestion 3.

Reason is it's not clear if it's possible to calculate foreign id's in namepartrevision and devicerevision tables, after tables are filled with content.

Naming database, Current

appinfo	flyway_schema_history	user_notification	useraccount	namepart	device	namepartrevision	devicerevision
id	installed_rank	id	id	id	id	id	id
version	version	notification_type	version	version	version	version	version
schemaversion	description	user_login_name	role	nameparttype	uuid	deleted	conventionname
	type		username	uuid		mnemonic	conventionnameeqclass
	script					name	deleted
	checksum					processdate	instanceindex
	installed_by					processorcomment	requestdate
	installed_on					requestdate	device_id
	execution_time					requestercomment	devicetype_id
	success					status	requestedby_id
						namepart_id	section_id
						parent_id	additionalinfo
						processedby_id	processorcomment
						requestedby_id	
						mnemoniceqclass	
						description	



Naming database, Current, example + complex example

ESS names

Acc
Acc:RFS-PRLTap-054
A2T
A2T:RFS-PRLTap-054
A2T-010PRL
A2T-010PRL:RFS-PRLTap-054

namepart		
id	nameparttype	uuid
1	SECTION	4262e1e7-2444-412e-83d7-aeabf58262c6
16	SECTION	e67a497c-9c55-4942-97fc-700c8ec56031
1359	SECTION	c2fce615-ed5d-40f9-8fb5-0b91502536e5
242	DEVICE_TYPE	e9b859d8-5c49-4098-9332-988edb898eef
1349	DEVICE_TYPE	5b5e1400-a390-4b39-ac3e-dd48a40cb073
1350	DEVICE_TYPE	bb1e68a6-e233-4595-ae88-f9186b6760c6

namepartrevision							
id	deleted	mnemonic	name	status	namepart_id	parent_id	mnemoniceqclass
1		Acc	Accelerator	APPROVED	1		ACC
1050			Accelerator	APPROVED	1		
5007		Acc	Accelerator	APPROVED	1		ACC
16		A2T	Accelerator to Target	APPROVED	16	1	A2T
1708		A2T	Accelerator to Target	APPROVED	16	1	A2T
2292		010PRL	01 Phase Reference Line	APPROVED	1359	16	10PR1
242		RFS	RF Systems	APPROVED	242		RFS
2282			Phase Reference Line	APPROVED	1349	242	
2283		PRLTAP	Phase Reference Line Tap	APPROVED	1350	1349	PR1TAP
2692		PRLTap	Phase Reference Line Tap	APPROVED	1350	1349	PR1TAP

device	
id	uuid
70662	d5931a5d-d908-4bfd-b0a2-9dde66ad5f84
70663	ac408fb9-739c-4a00-aed5-855d09d8dbee
70664	b9d16c9f-71a2-4c06-90f6-76682188904d
70665	5e9778da-9ed0-4f2f-b8e2-f2be7be0e416
70666	06ecb437-de5b-41d7-9c02-6a6a35956e21
3957	07bce0ae-0947-47c8-941e-cc76678fd29a

devicerevision							
id	conventionname	conventionnameeqclass	deleted	instanceindex	device_id	devicetype_id	section_id
122708	Acc	ACC			70662		1
122709	Acc:RFS-PRLTap-054	ACC:RFS-PR1TAP-54		054	70663	1350	1
122710	A2T	A2T			70664		16
122711	A2T:RFS-PRLTap-054	A2T:RFS-PR1TAP-54		054	70665	1350	16
122712	A2T-010PRL	A2T-10PR1			70666		1359
32540	A2T-010PRL:RFS-PRLTap-054	A2T-10PR1:RFS-PR1TAP-54		054	3957	1350	1359

More complexity, one and same ESS name

device	
id	uuid
4108	2edcacdb-e618-4d64-8e95-303ac014ed87

devicerevision							
id	conventionname	conventionnameeqclass	deleted	instanceindex	device_id	devicetype_id	section_id
6543	FEB-050ROW:PBI-MTCA-215100	FEB-50R0W:PB1-MTCA-215100		215100	4108	1452	1189
23348	FEB-050Row:PBI-MTCA-215100	FEB-50R0W:PB1-MTCA-215100		215100	4108	1452	1189
36636	FEB-050Row:PBI-MTCA-004	FEB-50R0W:PB1-MTCA-4		004	4108	1452	1189
42812	FEB-050Row:PBI-MTCA-040	FEB-50R0W:PB1-MTCA-40		040	4108	1452	1189
73122	FEB-050Row:PBI-MTCA-040	FEB-50R0W:PB1-MTCA-40		040	4108	1452	1189
85393	FEB-050Row:PBI-MTCA-9040	FEB-50R0W:PB1-MTCA-9040		9040	4108	1452	1189
89039	FEB-050Row:PBI-MTCA-040	FEB-50R0W:PB1-MTCA-40		040	4108	1452	1189
92290	FEB-050Row:PBI-MTCA-050x	FEB-50R0W:PB1-MTCA-50X		050x	4108	1452	1189
92313	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50		050	4108	1452	1189
92446	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50		050	4108	1452	1189
92544	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50		050	4108	1452	1189
95904	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50		050	4108	1452	1189
104108	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50		050	4108	1452	1189
109398	PBI-BCM01:PBI-MTCA-200	PB1-BCM1:PB1-MTCA-200		200	4108	1452	2778
112748	PBI-BCM01:Ctrl-MTCA3U-200	PB1-BCM1:CTR1-MTCA3U-200		200	4108	2875	2778
113113	PBI-BCM01:Ctrl-MTCA3U-201	PB1-BCM1:CTR1-MTCA3U-201		201	4108	2875	2778
113331	PBI-BCM01:Ctrl-MTCA3U-201	PB1-BCM1:CTR1-MTCA3U-201		201	4108	2875	2778

Naming database, Suggestion 1

appinfo	flyway_schema_history	user_notification	useraccount	namepart	device	namepartrevision	devicerevision
id	installed_rank	id	id	id	id	id	id
version	version	notification_type	version	version	version	version	version
schemaversion	description	user_login_name	role	nameparttype	uuid	deleted	conventionname
	type		username	uuid		mnemonic	conventionnameeqclass
	script					name	deleted
	checksum					processdate	instanceindex
	installed_by					processorcomment	requestdate
	installed_on					requestdate	device_id
	execution_time					requestercomment	devicetype_id
	success					status	requestedby_id
						namepart_id	section_id
						parent_id	additionalinfo
						processedby_id	processorcomment
						requestedby_id	
						mnemoniceqclass	
						description	

namepartrevision_systemgroup	namepartrevision_system	namepartrevision_subsystem	namepartrevision_discipline	namepartrevision_devicegroup	namepartrevision_devicetype	devicerevision_device
id	id	id	id	id	id	id
version	version	version	version	version	version	version
namepart_id	namepart_id	namepart_id	namepart_id	namepart_id	namepart_id	device_id
name	parent_namepart_id	parent_namepart_id	name	parent_namepart_id	parent_namepart_id	namepartrevision_systemgroup_namepart_id
mnemonic	name	name	mnemonic	name	name	namepartrevision_system_namepart_id
mnemonicEquivalence	mnemonic	mnemonic	mnemonicEquivalence	mnemonic	mnemonic	namepartrevision_subsystem_namepart_id
description	mnemonicEquivalence	mnemonicEquivalence	description	mnemonicEquivalence	mnemonicEquivalence	namepartrevision_devicetype_namepart_id
status	description	description	status	description	description	instanceIndex
deleted	status	status	deleted	status	status	conventionName
requested	deleted	deleted	requested	deleted	deleted	conventionNameEquivalence
requestedBy	requested	requested	requestedBy	requested	requested	description
requestedComment	requestedBy	requestedBy	requestedComment	requestedBy	requestedBy	status
processed	requestedComment	requestedComment	processed	requestedComment	requestedComment	deleted
processedBy	processed	processed	processedBy	processed	processed	requested
processedComment	processedBy	processedBy	processedComment	processedBy	processedBy	requestedBy
	processedComment	processedComment		processedComment	processedComment	requestedComment
						processed
						processedBy
						processedComment



Naming database, Suggestion 1, example

ESS names

Acc
Acc:RFS-PRLTap-054
A2T
A2T:RFS-PRLTap-054
A2T-010PRL
A2T-010PRL:RFS-PRLTap-054

namepart		
id	nameparttype	uuid
1	SECTION	4262e1e7-2444-412e-83d7-aeabf58262c6
16	SECTION	e67a497c-9c55-4942-97fc-700c8ec56031
1359	SECTION	c2fce615-ed5d-40f9-8fb5-0b91502536e5
242	DEVICE_TYPE	e9b859d8-5c49-4098-9332-988edb898eef
1349	DEVICE_TYPE	5b5e1400-a390-4b39-ac3e-dd48a40cb073
1350	DEVICE_TYPE	bb1e68a6-e233-4595-ae88-f9186b6760c6

namepartrevision_systemgroup						
id	namepart_id	name	mnemonic	mnemonicEquivalence	status	deleted
1	1	Accelerator	Acc	ACC	APPROVED	
1050	1	Accelerator			APPROVED	
5007	1	Accelerator	Acc	ACC	APPROVED	

namepartrevision_system							
id	namepart_id	parent_namepart_id	name	mnemonic	mnemonicEquivalence	status	deleted
16	16	1	Accelerator to Target	A2T	A2T	APPROVED	
1708	16	1	Accelerator to Target	A2T	A2T	APPROVED	

namepartrevision_subsystem							
id	namepart_id	parent_namepart_id	name	mnemonic	mnemonicEquivalence	status	deleted
2292	1359	16	01 Phase Reference Line	010PRL	10PR1	APPROVED	

namepartrevision_discipline						
id	namepart_id	name	mnemonic	mnemonicEquivalence	status	deleted
242	242	RF Systems	RFS	RFS	APPROVED	

namepartrevision_devicegroup							
id	namepart_id	parent_namepart_id	name	mnemonic	mnemonicEquivalence	status	deleted
2282	1349	242	Phase Reference Line			APPROVED	

namepartrevision_devicetype							
id	namepart_id	parent_namepart_id	name	mnemonic	mnemonicEquivalence	status	deleted
2283	1350	1349	Phase Reference Line Tap	PRLTAP	PR1TAP	APPROVED	
2692	1350	1349	Phase Reference Line Tap	PRLTap	PR1TAP	APPROVED	

device	
id	uuid
70661	5a9f7f3a-5bac-443e-9fe2-ca51e8a5cc68
70662	d9249c6b-a7b3-4cef-8f7b-fc995e75c47b
70663	00cc4bd6-1b0a-4f2f-893c-08fec86dee1f
70664	85719dfe-a07e-4e1a-9445-cc4497fc2eb6
70665	501f8c39-26c2-48dc-a35d-7e8f54121bb5
3957	07bce0ae-0947-47c8-941e-cc76678fd29a

devicerevision_device								
id	device_id	namepartrevision_systemgroup_namepart_id	namepartrevision_system_namepart_id	namepartrevision_subsystem_namepart_id	namepartrevision_devicetype_namepart_id	instanceindex	conventionname	conventionnameequivalence
122708	70661	1					Acc	ACC
122709	70662	1			1350	054	Acc:RFS-PRLTap-054	ACC:RFS-PR1TAP-54
122710	70663		16				A2T	A2T
122711	70664		16		1350	054	A2T:RFS-PRLTap-054	A2T:RFS-PR1TAP-54
122712	70665			1359			A2T-010PRL	A2T-10PR1
32540	3957			1359	1350	054	A2T-010PRL:RFS-PRLTap-054	A2T-10PR1:RFS-PR1TAP-54

Naming database, Suggestion 1, complex example

More complexity, one and same ESS name

device	
id	uuid
4108	2edcacdb-e618-4d64-8e95-303ac014ed87

devicerevision_device										
id	device_id	namepartrevision_systemgroup_namepart_id	namepartrevision_system_namepart_id	namepartrevision_subsystem_namepart_id	namepartrevision_devicetype_namepart_id	instanceindex	conventionname	conventionnameequivalence	status	deleted
6543	4108			1189	1452	215100	FEB-050ROW:PBI-MTCA-215100	FEB-50R0W:PB1-MTCA-215100		
23348	4108			1189	1452	215100	FEB-050Row:PBI-MTCA-215100	FEB-50R0W:PB1-MTCA-215100		
36636	4108			1189	1452	004	FEB-050Row:PBI-MTCA-004	FEB-50R0W:PB1-MTCA-4		
42812	4108			1189	1452	040	FEB-050Row:PBI-MTCA-040	FEB-50R0W:PB1-MTCA-40		
73122	4108			1189	1452	040	FEB-050Row:PBI-MTCA-040	FEB-50R0W:PB1-MTCA-40		
85393	4108			1189	1452	9040	FEB-050Row:PBI-MTCA-9040	FEB-50R0W:PB1-MTCA-9040		
89039	4108			1189	1452	040	FEB-050Row:PBI-MTCA-040	FEB-50R0W:PB1-MTCA-40		
92290	4108			1189	1452	050x	FEB-050Row:PBI-MTCA-050x	FEB-50R0W:PB1-MTCA-50X		
92313	4108			1189	1452	050	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50		
92446	4108			1189	1452	050	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50		
92544	4108			1189	1452	050	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50		
95904	4108			1189	1452	050	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50		
104108	4108			1189	1452	050	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50		
109398	4108			2778	1452	200	PBI-BCM01:PBI-MTCA-200	PB1-BCM1:PB1-MTCA-200		
112748	4108			2778	2875	200	PBI-BCM01:Ctrl-MTCA3U-200	PB1-BCM1:CTR1-MTCA3U-200		
113113	4108			2778	2875	201	PBI-BCM01:Ctrl-MTCA3U-201	PB1-BCM1:CTR1-MTCA3U-201		
113331	4108			2778	2875	201	PBI-BCM01:Ctrl-MTCA3U-201	PB1-BCM1:CTR1-MTCA3U-201		

Naming database, Suggestion 2

appinfo	flyway_schema_history	user_notification	useraccount	namepart	device	namepartrevision	devicerevision
id	installed_rank	id	id	id	id	id	id
version	version	notification_type	version	version	version	version	version
schemaversion	description	user_login_name	role	nameparttype	uuid	deleted	conventionname
	type		username	uuid		mnemonic	conventionnameeqclass
	script					name	deleted
	checksum					processdate	instanceindex
	installed_by					processorcomment	requestdate
	installed_on					requestdate	device_id
	execution_time					requestercomment	devicetype_id
	success					status	requestedby_id
						namepart_id	section_id
						parent_id	additionalinfo
						processedby_id	processorcomment
						requestedby_id	
						mnemoniceqclass	
						description	

namepartrevision_systemgroup	namepartrevision_system	namepartrevision_subsystem	namepartrevision_discipline	namepartrevision_devicegroup	namepartrevision_devicetype	devicerevision_device
id	id	id	id	id	id	id
version	version	version	version	version	version	version
uuid	uuid	uuid	uuid	uuid	uuid	device_id
name	parent_uuid	parent_uuid	name	parent_uuid	parent_uuid	namepartrevision_systemgroup_uuid
mnemonic	name	name	mnemonic	name	name	namepartrevision_system_uuid
mnemonicEquivalence	mnemonic	mnemonic	mnemonicEquivalence	mnemonic	mnemonic	namepartrevision_subsystem_uuid
description	mnemonicEquivalence	mnemonicEquivalence	description	mnemonicEquivalence	mnemonicEquivalence	namepartrevision_devicetype_uuid
status	description	description	status	description	description	instanceIndex
deleted	status	status	deleted	status	status	conventionName
requested	deleted	deleted	requested	deleted	deleted	conventionNameEquivalence
requestedBy	requested	requested	requestedBy	requested	requested	description
requestedComment	requestedBy	requestedBy	requestedComment	requestedBy	requestedBy	status
processed	requestedComment	requestedComment	processed	requestedComment	requestedComment	deleted
processedBy	processed	processed	processedBy	processed	processed	requested
processedComment	processedBy	processedBy	processedComment	processedBy	processedBy	requestedBy
	processedComment	processedComment		processedComment	processedComment	requestedComment
						processed
						processedBy
						processedComment



Naming database, Suggestion 2, example

ESS names

Acc
Acc:RFS-PRLTap-054
A2T
A2T:RFS-PRLTap-054
A2T-010PRL
A2T-010PRL:RFS-PRLTap-054

namepartrevision_systemgroup						
id	uuid	name	mnemonic	mnemonicEquivalence	status	deleted
1	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator	Acc	ACC	APPROVED	
1050	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator			APPROVED	
5007	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator	Acc	ACC	APPROVED	

namepartrevision_system							
id	uuid	parent_uuid	name	mnemonic	mnemonicEquivalence	status	deleted
16	e67a497c-9c55-4942-97fc-700c8ec56031	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator to Target	A2T	A2T	APPROVED	
1708	e67a497c-9c55-4942-97fc-700c8ec56031	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator to Target	A2T	A2T	APPROVED	

namepartrevision_subsystem							
id	uuid	parent_uuid	name	mnemonic	mnemonicEquivalence	status	deleted
2292	c2fce615-ed5d-40f9-8fb5-0b91502536e5	e67a497c-9c55-4942-97fc-700c8ec56031	01 Phase Reference Line	010PRL	10PR1	APPROVED	

namepartrevision_discipline						
id	uuid	name	mnemonic	mnemonicEquivalence	status	deleted
242	e9b859d8-5c49-4098-9332-988edb898eef	RF Systems	RFS	RFS	APPROVED	

namepartrevision_devicegroup							
id	uuid	parent_uuid	name	mnemonic	mnemonicEquivalence	status	deleted
2282	5b5e1400-a390-4b39-ac3e-dd48a40cb073	e9b859d8-5c49-4098-9332-988edb898eef	Phase Reference Line			APPROVED	

namepartrevision_devicetype							
id	uuid	parent_uuid	name	mnemonic	mnemonicEquivalence	status	deleted
2283	bb1e68a6-e233-4595-ae88-f9186b6760c6	5b5e1400-a390-4b39-ac3e-dd48a40cb073	Phase Reference Line Tap	PRLTAP	PR1TAP	APPROVED	
2692	bb1e68a6-e233-4595-ae88-f9186b6760c6	5b5e1400-a390-4b39-ac3e-dd48a40cb073	Phase Reference Line Tap	PRLTap	PR1TAP	APPROVED	

devicerevision_device									
id	uuid	namepartrevision_systemgroup_uuid	namepartrevision_system_uuid	namepartrevision_subsystem_uuid	namepartrevision_devicetype_uuid	Instance index	conventionname	conventionname equivalence	
122707	5a9f7f3a-5bac-443e-9fe2-ca51e8a5cc68	4262e1e7-2444-412e-83d7-aeabf58262c6					Acc	ACC	
122708	d9249c6b-a7b3-4cef-87fb-fc995e75c47b	4262e1e7-2444-412e-83d7-aeabf58262c6			bb1e68a6-e233-4595-ae88-f9186b6760c6	054	Acc: RFS-PRLTap-054	ACC: RFS-PR1TAP-54	
122709	00cc4bd6-1b0a-4f2f-893c-08fec86dee1f		e67a497c-9c55-4942-97fc-700c8ec56031				A2T	A2T	
122710	85719dfe-a07e-4e1a-9445-cc4497fc2eb6		e67a497c-9c55-4942-97fc-700c8ec56031		bb1e68a6-e233-4595-ae88-f9186b6760c6	054	A2T: RFS-PRLTap-054	A2T: RFS-PR1TAP-54	
122711	501f8c39-26c2-48dc-a35d-7e8f54121bb5				c2fce615-ed5d-40f9-8fb5-0b91502536e5		A2T-010PRL	A2T-10PR1	
32540	07bce0ae-0947-47c8-941e-cc76678fd29a				c2fce615-ed5d-40f9-8fb5-0b91502536e5	054	A2T-010PRL: RFS-PRLTap-054	A2T-10PR1: RFS-PR1TAP-54	

Naming database, Suggestion 2, complex example

More complexity, one and same ESS name

devicerevision_device								
id	uuid	namepartrevision_systemgroup_uuid	namepartrevision_system_uuid	namepartrevision_subsystem_uuid	namepartrevision_devicetype_uuid	instanceindex	conventionname	conventionnameequivalence
6543	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	215100	FEB-050ROW:PBI-MTCA-215100	FEB-50ROW:PB1-MTCA-215100
23348	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	215100	FEB-050Row:PBI-MTCA-215100	FEB-50ROW:PB1-MTCA-215100
36636	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	004	FEB-050Row:PBI-MTCA-004	FEB-50ROW:PB1-MTCA-4
42812	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	040	FEB-050Row:PBI-MTCA-040	FEB-50ROW:PB1-MTCA-40
73122	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	040	FEB-050Row:PBI-MTCA-040	FEB-50ROW:PB1-MTCA-40
85393	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	9040	FEB-050Row:PBI-MTCA-9040	FEB-50ROW:PB1-MTCA-9040
89039	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	040	FEB-050Row:PBI-MTCA-040	FEB-50ROW:PB1-MTCA-40
92290	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	050x	FEB-050Row:PBI-MTCA-050x	FEB-50ROW:PB1-MTCA-50X
92313	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	050	FEB-050Row:PBI-MTCA-050	FEB-50ROW:PB1-MTCA-50
92446	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	050	FEB-050Row:PBI-MTCA-050	FEB-50ROW:PB1-MTCA-50
92544	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	050	FEB-050Row:PBI-MTCA-050	FEB-50ROW:PB1-MTCA-50
95904	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	050	FEB-050Row:PBI-MTCA-050	FEB-50ROW:PB1-MTCA-50
104108	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	050	FEB-050Row:PBI-MTCA-050	FEB-50ROW:PB1-MTCA-50
109398	2edcacdb-e618-4d64-8e95-303ac014ed87			59dca0b0-3eb5-4898-9fa5-20d323db1050	aeb02f70-afea-489c-b3ae-c37cc7951fdf	200	PBI-BCM01:PBI-MTCA-200	PB1-BCM1:PB1-MTCA-200
112748	2edcacdb-e618-4d64-8e95-303ac014ed87			59dca0b0-3eb5-4898-9fa5-20d323db1050	909559a0-6500-4845-8671-e1cf852fc090	200	PBI-BCM01:Ctrl-MTCA3U-200	PB1-BCM1:CTR1-MTCA3U-200
113113	2edcacdb-e618-4d64-8e95-303ac014ed87			59dca0b0-3eb5-4898-9fa5-20d323db1050	909559a0-6500-4845-8671-e1cf852fc090	201	PBI-BCM01:Ctrl-MTCA3U-201	PB1-BCM1:CTR1-MTCA3U-201
113331	2edcacdb-e618-4d64-8e95-303ac014ed87			59dca0b0-3eb5-4898-9fa5-20d323db1050	909559a0-6500-4845-8671-e1cf852fc090	201	PBI-BCM01:Ctrl-MTCA3U-201	PB1-BCM1:CTR1-MTCA3U-201

Naming database, Suggestion 3

appinfo	flyway_schema_history	user_notification	useraccount	namepart	device	namepartrevision	devicerevision
id	installed_rank	id	id	id	id	id	id
version	version	notification_type	version	version	version	version	version
schemaversion	description	user_login_name	role	nameparttype	uuid	deleted	conventionname
	type		username	uuid		mnemonic	conventionnameeqclass
	script					name	deleted
	checksum					processdate	instanceindex
	installed_by					processorcomment	requestdate
	installed_on					requestdate	device_id
	execution_time					requestercomment	devicetype_id
	success					status	requestedby_id
						namepart_id	section_id
						parent_id	additionalinfo
						processedby_id	processorcomment
						requestedby_id	
						mnemoniceqclass	
						description	

namepartrevision_systemgroup	namepartrevision_system	namepartrevision_subsystem	namepartrevision_discipline	namepartrevision_devicegroup	namepartrevision_devicetype	devicerevision_device
id	id	id	id	id	id	id
version	version	version	version	version	version	version
uuid	uuid	uuid	uuid	uuid	uuid	device_id
name	parent_id	parent_id	name	parent_id	parent_id	namepartrevision_systemgroup_id
mnemonic	name	name	mnemonic	name	name	namepartrevision_system_id
mnemonicEquivalence	mnemonic	mnemonic	mnemonicEquivalence	mnemonic	mnemonic	namepartrevision_subsystem_id
description	mnemonicEquivalence	mnemonicEquivalence	description	mnemonicEquivalence	mnemonicEquivalence	namepartrevision_devicetype_id
status	description	description	status	description	description	instanceIndex
deleted	status	status	deleted	status	status	conventionName
requested	deleted	deleted	requested	deleted	deleted	conventionNameEquivalence
requestedBy	requested	requested	requestedBy	requested	requested	description
requestedComment	requestedBy	requestedBy	requestedComment	requestedBy	requestedBy	status
processed	requestedComment	requestedComment	processed	requestedComment	requestedComment	deleted
processedBy	processed	processed	processedBy	processed	processed	requested
processedComment	processedBy	processedBy	processedComment	processedBy	processedBy	requestedBy
	processedComment	processedComment		processedComment	processedComment	requestedComment
						processed
						processedBy
						processedComment



Naming database, Suggestion 3, example

ESS names

Acc
Acc:RFS-PRLTap-054
A2T
A2T:RFS-PRLTap-054
A2T-010PRL
A2T-010PRL:RFS-PRLTap-054

namepartrevision_systemgroup						
id	uuid	name	mnemonic	mnemonicEquivalence	status	deleted
1	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator	Acc	ACC	APPROVED	
1050	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator			APPROVED	
5007	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator	Acc	ACC	APPROVED	

namepartrevision_system							
id	uuid	parent_id	name	mnemonic	mnemonicEquivalence	status	deleted
16	e67a497c-9c55-4942-97fc-700c8ec56031	1050	Accelerator to Target	A2T	A2T	APPROVED	
1708	e67a497c-9c55-4942-97fc-700c8ec56031	5007	Accelerator to Target	A2T	A2T	APPROVED	

namepartrevision_subsystem							
id	uuid	parent_id	name	mnemonic	mnemonicEquivalence	status	deleted
2292	c2fce615-ed5d-40f9-8fb5-0b91502536e5	1708	01 Phase Reference Line	010PRL	10PR1	APPROVED	

namepartrevision_discipline						
id	uuid	name	mnemonic	mnemonicEquivalence	status	deleted
242	e9b859d8-5c49-4098-9332-988edb898eef	RF Systems	RFS	RFS	APPROVED	

namepartrevision_devicegroup							
id	uuid	parent_id	name	mnemonic	mnemonicEquivalence	status	deleted
2282	5b5e1400-a390-4b39-ac3e-dd48a40cb073	242	Phase Reference Line			APPROVED	

namepartrevision_devicetype							
id	uuid	parent_id	name	mnemonic	mnemonicEquivalence	status	deleted
2283	bb1e68a6-e233-4595-ae88-f9186b6760c6	2282	Phase Reference Line Tap	PRLTAP	PR1TAP	APPROVED	
2692	bb1e68a6-e233-4595-ae88-f9186b6760c6	2282	Phase Reference Line Tap	PRLTap	PR1TAP	APPROVED	

devicerevision_device								
id	uuid	namepartrevision_systemgroup_id	namepartrevision_system_id	namepartrevision_subsystem_id	namepartrevision_devicetype_id	Instance index	conventionname	conventionname equivalence
122707	5a9f7f3a-5bac-443e-9fe2-ca51e8a5cc68	5007					Acc	ACC
122708	d9249c6b-a7b3-4cef-8f7b-fc995e75c47b	5007			2692	054	Acc:RFS-PRLTap-054	ACC:RFS-PR1TAP-54
122709	00cc4bd6-1b0a-4f2f-893c-08fec86dee1f		1708				A2T	A2T
122710	85719dfe-a07e-4e1a-9445-cc4497fc2eb6		1708		2692	054	A2T:RFS-PRLTap-054	A2T:RFS-PR1TAP-54
122711	501f8c39-26c2-48dc-a35d-7e8f54121bb5			2292			A2T-010PRL	A2T-10PR1
32540	07bce0ae-0947-47c8-941e-cc76678fd29a			2292	2692	054	A2T-010PRL:RFS-PRLTap-054	A2T-10PR1:RFS-PR1TAP-54

Naming database, Suggestion 3, complex example

More complexity, one and same ESS name

devicerevision_device								
id	uuid	namepartrevision_systemgroup_id	namepartrevision_system_id	namepartrevision_subsystem_id	namepartrevision_devicetype_id	instanceindex	conventionname	conventionnameequivalence
6543	2edcacdb-e618-4d64-8e95-303ac014ed87					215100	FEB-050ROW:PBI-MTCA-215100	FEB-50R0W:PB1-MTCA-215100
23348	2edcacdb-e618-4d64-8e95-303ac014ed87					215100	FEB-050Row:PBI-MTCA-215100	FEB-50R0W:PB1-MTCA-215100
36636	2edcacdb-e618-4d64-8e95-303ac014ed87					004	FEB-050Row:PBI-MTCA-004	FEB-50R0W:PB1-MTCA-4
42812	2edcacdb-e618-4d64-8e95-303ac014ed87					040	FEB-050Row:PBI-MTCA-040	FEB-50R0W:PB1-MTCA-40
73122	2edcacdb-e618-4d64-8e95-303ac014ed87					040	FEB-050Row:PBI-MTCA-040	FEB-50R0W:PB1-MTCA-40
85393	2edcacdb-e618-4d64-8e95-303ac014ed87					9040	FEB-050Row:PBI-MTCA-9040	FEB-50R0W:PB1-MTCA-9040
89039	2edcacdb-e618-4d64-8e95-303ac014ed87					040	FEB-050Row:PBI-MTCA-040	FEB-50R0W:PB1-MTCA-40
92290	2edcacdb-e618-4d64-8e95-303ac014ed87					050x	FEB-050Row:PBI-MTCA-050x	FEB-50R0W:PB1-MTCA-50X
92313	2edcacdb-e618-4d64-8e95-303ac014ed87					050	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50
92446	2edcacdb-e618-4d64-8e95-303ac014ed87					050	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50
92544	2edcacdb-e618-4d64-8e95-303ac014ed87					050	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50
95904	2edcacdb-e618-4d64-8e95-303ac014ed87					050	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50
104108	2edcacdb-e618-4d64-8e95-303ac014ed87					050	FEB-050Row:PBI-MTCA-050	FEB-50R0W:PB1-MTCA-50
109398	2edcacdb-e618-4d64-8e95-303ac014ed87					200	PBI-BCM01:PBI-MTCA-200	PB1-BCM1:PB1-MTCA-200
112748	2edcacdb-e618-4d64-8e95-303ac014ed87					200	PBI-BCM01:Ctrl-MTCA3U-200	PB1-BCM1:CTR1-MTCA3U-200
113113	2edcacdb-e618-4d64-8e95-303ac014ed87					201	PBI-BCM01:Ctrl-MTCA3U-201	PB1-BCM1:CTR1-MTCA3U-201
113331	2edcacdb-e618-4d64-8e95-303ac014ed87			4727	4835	201	PBI-BCM01:Ctrl-MTCA3U-201	PB1-BCM1:CTR1-MTCA3U-201

Naming database, Suggestion 4

appinfo	flyway_schema_history	user_notification	useraccount	namepart	device	namepartrevision	devicerevision
id	installed_rank	id	id	id	id	id	id
version	version	notification_type	version	version	version	version	version
schemaversion	description	user_login_name	role	nameparttype	uuid	deleted	conventionname
	type		username	uuid		mnemonic	conventionnameeqclass
	script					name	deleted
	checksum					processdate	instanceindex
	installed_by					processorcomment	requestdate
	installed_on					requestdate	device_id
	execution_time					requestercomment	devicetype_id
	success					status	requestedby_id
						namepart_id	section_id
						parent_id	additionalinfo
						processedby_id	processorcomment
						requestedby_id	
						mnemoniceqclass	
						description	

namepartrevision_systemgroup	namepartrevision_system	namepartrevision_subsystem	namepartrevision_discipline	namepartrevision_devicegroup	namepartrevision_devicetype	devicerevision_device
id	id	id	id	id	id	id
version	version	version	version	version	version	version
uuid	uuid	uuid	uuid	uuid	uuid	device_id
name	parent_uuid	parent_uuid	name	parent_uuid	parent_uuid	namepartrevision_systemgroup_uuid
mnemonic	name	name	mnemonic	name	name	namepartrevision_system_uuid
mnemonicEquivalence	mnemonic	mnemonic	mnemonicEquivalence	mnemonic	mnemonic	namepartrevision_subsystem_uuid
description	mnemonicEquivalence	mnemonicEquivalence	description	mnemonicEquivalence	mnemonicEquivalence	namepartrevision_devicetype_uuid
status	description	description	status	description	description	instanceIndex
latest	status	status	latest	status	status	conventionName
deleted	latest	latest	deleted	latest	latest	conventionNameEquivalence
requested	deleted	deleted	requested	deleted	deleted	description
requestedBy	requested	requested	requestedBy	requested	requested	status
requestedComment	requestedBy	requestedBy	requestedComment	requestedBy	requestedBy	latest
processed	requestedComment	requestedComment	processed	requestedComment	requestedComment	deleted
processedBy	processed	processed	processedBy	processed	processed	requested
processedComment	processedBy	processedBy	processedComment	processedBy	processedBy	requestedBy
	processedComment	processedComment		processedComment	processedComment	requestedComment
						processed
						processedBy
						processedComment



Naming database, Suggestion 4, example

ESS names

Acc
Acc:RFS-PRLTap-054
A2T
A2T:RFS-PRLTap-054
A2T-010PRL
A2T-010PRL:RFS-PRLTap-054

namepartrevision_systemgroup							
id	uuid	name	mnemonic	mnemonicEquivalence	status	latest	deleted
1	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator	Acc	ACC	APPROVED	false	
1050	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator			APPROVED	false	
5007	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator	Acc	ACC	APPROVED	true	

namepartrevision_system									
id	uuid	parent_uuid	name	mnemonic	mnemonicEquivalence	status	latest	deleted	
16	e67a497c-9c55-4942-97fc-700c8ec56031	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator to Target	A2T	A2T	APPROVED	false		
1708	e67a497c-9c55-4942-97fc-700c8ec56031	4262e1e7-2444-412e-83d7-aeabf58262c6	Accelerator to Target	A2T	A2T	APPROVED	true		

namepartrevision_subsystem									
id	uuid	parent_uuid	name	mnemonic	mnemonicEquivalence	status	latest	deleted	
2292	c2fce615-ed5d-40f9-8fb5-0b91502536e5	e67a497c-9c55-4942-97fc-700c8ec56031	01 Phase Reference Line	010PRL	10PR1	APPROVED	true		

namepartrevision_discipline							
id	uuid	name	mnemonic	mnemonicEquivalence	status	latest	deleted
242	e9b859d8-5c49-4098-9332-988edb898eef	RF Systems	RFS	RFS	APPROVED	true	

namepartrevision_devicegroup									
id	uuid	parent_uuid	name	mnemonic	mnemonicEquivalence	status	latest	deleted	
2282	5b5e1400-a390-4b39-ac3e-dd48a40cb073	e9b859d8-5c49-4098-9332-988edb898eef	Phase Reference Line			APPROVED	true		

namepartrevision_devicetype									
id	uuid	parent_uuid	name	mnemonic	mnemonicEquivalence	status	latest	deleted	
2283	bb1e68a6-e233-4595-ae88-f9186b6760c6	5b5e1400-a390-4b39-ac3e-dd48a40cb073	Phase Reference Line Tap	PRLTAP	PR1TAP	APPROVED	false		
2692	bb1e68a6-e233-4595-ae88-f9186b6760c6	5b5e1400-a390-4b39-ac3e-dd48a40cb073	Phase Reference Line Tap	PRLTap	PR1TAP	APPROVED	true		

devicerevision_device									
id	uuid	namepartrevision_systemgroup_uuid	namepartrevision_system_uuid	namepartrevision_subsystem_uuid	namepartrevision_devicetype_uuid	Instance index	conventionname	conventionname equivalence	
122707	5a9f7f3a-5bac-443e-9fe2-ca51e8a5cc68	4262e1e7-2444-412e-83d7-aeabf58262c6					Acc	ACC	
122708	d9249c6b-a7b3-4cef-87fb-fc995e75c47b	4262e1e7-2444-412e-83d7-aeabf58262c6			bb1e68a6-e233-4595-ae88-f9186b6760c6	054	Acc: RFS-PRLTap-054	ACC: RFS-PR1TAP-54	
122709	00cc4bd6-1b0a-4f2f-893c-08fec86dee1f		e67a497c-9c55-4942-97fc-700c8ec56031				A2T	A2T	
122710	85719dfe-a07e-4e1a-9445-cc4497fc2eb6		e67a497c-9c55-4942-97fc-700c8ec56031		bb1e68a6-e233-4595-ae88-f9186b6760c6	054	A2T: RFS-PRLTap-054	A2T: RFS-PR1TAP-54	
122711	501f8c39-26c2-48dc-a35d-7e8f54121bb5				c2fce615-ed5d-40f9-8fb5-0b91502536e5		A2T-010PRL	A2T-10PR1	
32540	07bce0ae-0947-47c8-941e-cc76678fd29a				c2fce615-ed5d-40f9-8fb5-0b91502536e5	054	A2T-010PRL: RFS-PRLTap-054	A2T-10PR1: RFS-PR1TAP-54	

Naming database, Suggestion 4, complex example

More complexity, one and same ESS name

devicerevision_device								
id	uuid	namepartrevision_systemgroup_uuid	namepartrevision_system_uuid	namepartrevision_subsystem_uuid	namepartrevision_devicetype_uuid	instanceindex	conventionname	conventionnameequivalence
6543	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	215100	FEB-050ROW:PBI-MTCA-215100	FEB-50ROW:PB1-MTCA-215100
23348	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	215100	FEB-050Row:PBI-MTCA-215100	FEB-50ROW:PB1-MTCA-215100
36636	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	004	FEB-050Row:PBI-MTCA-004	FEB-50ROW:PB1-MTCA-4
42812	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	040	FEB-050Row:PBI-MTCA-040	FEB-50ROW:PB1-MTCA-40
73122	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	040	FEB-050Row:PBI-MTCA-040	FEB-50ROW:PB1-MTCA-40
85393	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	9040	FEB-050Row:PBI-MTCA-9040	FEB-50ROW:PB1-MTCA-9040
89039	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	040	FEB-050Row:PBI-MTCA-040	FEB-50ROW:PB1-MTCA-40
92290	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	050x	FEB-050Row:PBI-MTCA-050x	FEB-50ROW:PB1-MTCA-50X
92313	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	050	FEB-050Row:PBI-MTCA-050	FEB-50ROW:PB1-MTCA-50
92446	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	050	FEB-050Row:PBI-MTCA-050	FEB-50ROW:PB1-MTCA-50
92544	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	050	FEB-050Row:PBI-MTCA-050	FEB-50ROW:PB1-MTCA-50
95904	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	050	FEB-050Row:PBI-MTCA-050	FEB-50ROW:PB1-MTCA-50
104108	2edcacdb-e618-4d64-8e95-303ac014ed87			7e67365b-3d01-4acb-873f-4af7e29eeca5	aeb02f70-afea-489c-b3ae-c37cc7951fdf	050	FEB-050Row:PBI-MTCA-050	FEB-50ROW:PB1-MTCA-50
109398	2edcacdb-e618-4d64-8e95-303ac014ed87			59dca0b0-3eb5-4898-9fa5-20d323db1050	aeb02f70-afea-489c-b3ae-c37cc7951fdf	200	PBI-BCM01:PBI-MTCA-200	PB1-BCM1:PB1-MTCA-200
112748	2edcacdb-e618-4d64-8e95-303ac014ed87			59dca0b0-3eb5-4898-9fa5-20d323db1050	909559a0-6500-4845-8671-e1cf852fc090	200	PBI-BCM01:Ctrl-MTCA3U-200	PB1-BCM1:CTR1-MTCA3U-200
113113	2edcacdb-e618-4d64-8e95-303ac014ed87			59dca0b0-3eb5-4898-9fa5-20d323db1050	909559a0-6500-4845-8671-e1cf852fc090	201	PBI-BCM01:Ctrl-MTCA3U-201	PB1-BCM1:CTR1-MTCA3U-201
113331	2edcacdb-e618-4d64-8e95-303ac014ed87			59dca0b0-3eb5-4898-9fa5-20d323db1050	909559a0-6500-4845-8671-e1cf852fc090	201	PBI-BCM01:Ctrl-MTCA3U-201	PB1-BCM1:CTR1-MTCA3U-201

REST API

Content						
deviceNames						
GET		/deviceNames		Lists all devices		
GET		/deviceNames/devicetype/search/{devicetype}		Finds all devices with given device type (search)		
GET		/deviceNames/devicetype/{devicetype}		Finds all devices with given device type (exact match)		
GET		/deviceNames/discipline/search/{discipline}		Finds all devices with given discipline (search)		
GET		/deviceNames/discipline/{discipline}		Finds all devices with given discipline (exact match)		
GET		/deviceNames/search/{searchText}		Finds all devices containing given text (search)		
GET		/deviceNames/subsystem/search/{subsystem}		Finds all devices by given subsystem (search)		
GET		/deviceNames/subsystem/{subsystem}		Finds all devices by given subsystem (exact match)		
GET		/deviceNames/system/search/{system}		Finds all devices by given system (search)		
GET		/deviceNames/system/{system}		Finds all devices by given system (exact match)		
GET		/deviceNames/{uuid}		Finds device by uuid or name		
healthcheck						
GET		/healthcheck		Healthcheck of Naming application		
parts						
GET		/parts/mnemonic/search/{searchText}		Finds all parts containing mnemonic with the specific search text.		
GET		/parts/mnemonic/{mnemonic}		Finds all parts by specific mnemonic.		
GET		/parts/mnemonicPath/search/{searchText}		Finds all parts containing mnemonic path with the specific search text.		

REST API, near future

Content						
history						
GET		/history/deviceNames/name/{name}		Finds history for ESS names given search parameters (exact match) name (required) from, to, type (optional).		
GET		/history/deviceNames/uuid/{uuid}		Finds history for ESS names given search parameters (exact match) uuid (required) from, to, type (optional).		
GET		/historyparts/mnemonic/{mnemonic}		Finds history for name parts given search parameters (exact match) mnemonic (required) from, to, type (optional)		
GET		/history/parts/uuid/{uuid}		Finds history for name parts given search parameters (exact match) uuid (required) from, to, type (optional)		

Proof of Concept

Proof-of-concept is done by considering that REST API should stay the same and how implementation may be updated to handle suggestions. Proof-of-concept is mostly a theoretical exercise, e.g. that REST API endpoint may be handled by having implementation query certain tables in certain order.

Some important things to keep in mind below.

Notes

Above is core of how to solve REST API endpoint. More may be needed, e.g. logic to go through a number of rows and choose proper row.

Compare with Naming, UI and REST API for suggestions.

Performance is to be key part of comparison.

Notes 2

Prerequisite

- index
- primary key
- foreign key

ORM – Hibernate

- not used in proof-of-concept
- will affect going / looping through query results
 - raw SQL kept to minimum

Notes 3

Alternative implementation to not have namepartrevision tables for deviceNames. Then loop through most recent for each device, look at convention name, extract field (system, subsystem, discipline, device type) and match with regex / search pattern.

Notes 4

Consider

- case sensitive / not
- exact match / not
- regex
- avoid SQL injection
 - possibly avoid (**and** sys.mnemonic = '**system**'), instead loop through returned rows and match with parameter

Notes 5

Caches (Current)

- flat structure of business objects

```
_____ NameViewProvider  
_____ NameRevisions  
_____ private Map<String, NameRevision> nameRevisionMap;
```

Key is equivalence class representative of convention name.
Map contains latest for equivalence class representative of convention name.
Mainly used for REST API.

- tree structure of business objects

```
_____ NameViews  
_____ private final Map<UUID, NameView> nameViewMap;
```

Key is UUID.
Map contains name part structure for levels 1, 2, 3 and also ESS name objects.
Mainly used for UI.

Notes 6

Not consider

- status for deviceNames

Consider

- status for parts
- compare with Naming, UI and REST API.

E.g. name parts with status PENDING should not be returned for part endpoints.

Notes 7

Work required to re-verify that structure and content from current database transferred to databases for suggestions.

Notes 8

Suggestions may be modified, i.e. database scripts, index, primary key, foreign key, SQL queries, etc.

Hanlding of RESt API for name parts and statuses may have to be adjusted.

Content						
deviceNames						
GET		/deviceNames		Lists all devices Use cache <u>NameRevisions.NameRevisions.nameRevisionMap</u> Loop through map entries.		Not consider status. Return most recent for each device.
GET		/deviceNames/devicetype/search/{devicetype}		Finds all devices with given device type (search) Use cache <u>NameRevisions.NameRevisions.nameRevisionMap</u> Loop through map entries, extract convention name / devicetype for each entry and match with regex / <u>devicetype</u> for search.		Not consider status. Return most recent for given parameter.
GET		/deviceNames/devicetype/{devicetype}		Finds all devices with given device type (exact match) Use cache <u>NameRevisions.NameRevisions.nameRevisionMap</u> Loop through map entries, extract convention name / devicetype for each entry and match with <u>devicetype</u> .		Not consider status. Return most recent for given parameter.
GET		/deviceNames/discipline/search/{discipline}		Finds all devices with given discipline (search) Use cache <u>NameRevisions.NameRevisions.nameRevisionMap</u> Loop through map entries, extract convention name / discipline for each entry and match with regex / <u>discipline</u> for search.		Not consider status. Return most recent for given parameter.
GET		/deviceNames/discipline/{discipline}		Finds all devices with given discipline (exact match) Use cache <u>NameRevisions.NameRevisions.nameRevisionMap</u> Loop through map entries, extract convention name / discipline for each entry and match with <u>discipline</u> .		Not consider status. Return most recent for given parameter.
GET		/deviceNames/search/{searchText}		Finds all devices containing given text (search) Use cache <u>NameRevisions.NameRevisions.nameRevisionMap</u> Loop through map entries, extract convention name for each entry and match with regex / <u>searchText</u> for search.		Not consider status. Return most recent for given parameter.
GET		/deviceNames/subsystem/search/{subsystem}		Finds all devices by given subsystem (search) Use cache <u>NameRevisions.NameRevisions.nameRevisionMap</u> Loop through map entries, extract convention name / subsystem for each entry and match with regex / <u>subsystem</u> for search.		Not consider status. Return most recent for given parameter.
GET		/deviceNames/subsystem/{subsystem}		Finds all devices by given subsystem (exact match) Use cache <u>NameRevisions.NameRevisions.nameRevisionMap</u> Loop through map entries, extract convention name / subsystem for each entry and match with <u>subsystem</u> .		Not consider status. Return most recent for given parameter.
GET		/deviceNames/system/search/{system}		Finds all devices by given system (search) Use cache <u>NameRevisions.NameRevisions.nameRevisionMap</u> Loop through map entries, extract convention name / system for each entry and match with regex / <u>system</u> for search.		Not consider status. Return most recent for given parameter. For • System Group • System.
GET		/deviceNames/system/{system}		Finds all devices by given system (exact match) Use cache <u>NameRevisions.NameRevisions.nameRevisionMap</u> Loop through map entries, extract convention name / system for each entry and match with <u>system</u> .		Not consider status. Return most recent for given parameter. For • System Group • System.
GET		/deviceNames/{uuid}		Finds device by uuid or name Use cache <u>NameRevisions.NameRevisions.nameRevisionMap</u> Loop through map entries, extract convention name / uuid for each entry and match with <u>uuid</u> .		Not consider status. Return most recent for given parameter.

Content						
healthcheck						
GET		/healthcheck		<div>Healthcheck of Naming application</div> <div>// return healthcheck as server timestamp</div> <div>// datetime - dateStyle, timeStyle - full</div> <div>Reuse current implementation.</div>		Purpose to http response code 200 to show that server is up and running.
parts						
GET		/parts/mnemonic/search/{searchText}		<div>Finds all parts containing mnemonic with the specific search text.</div> <div>Use cache</div> <div> NameViews.nameViewMap</div> <div>Loop through map entries, extract mnemonic for each System Structure entry and match with regex / searchText for search.</div> <div>Loop through map entries, extract mnemonic for each Device Structure entry and match with regex / searchText for search.</div>		<div>Consider status.</div> <div>For</div> <div>• System Group</div> <div>• System</div> <div>• Subsystem</div> <div>• Discipline</div> <div>• Device Type</div>
GET		/parts/mnemonic/{mnemonic}		<div>Finds all parts by specific mnemonic.</div> <div>Use cache</div> <div> NameViews.nameViewMap</div> <div>Loop through map entries, extract mnemonic for each System Structure entry and match with mnemonic for search.</div> <div>Loop through map entries, extract mnemonic for each Device Structure entry and match with mnemonic for search.</div>		<div>Consider status.</div> <div>For</div> <div>• System Group</div> <div>• System</div> <div>• Subsystem</div> <div>• Discipline</div> <div>• Device Type</div>
GET		/parts/mnemonicPath/search/{searchText}		<div>Finds all parts containing mnemonic path with the specific search text.</div> <div>Use cache</div> <div> NameViews.nameViewMap</div> <div>Loop through map entries, extract mnemonic path for each System Structure entry and match with regex / searchText for search.</div> <div>Loop through map entries, extract mnemonic path for each Device Structure entry and match with regex / searchText for search.</div>		<div>Consider status.</div> <div>For</div> <div>• System Group (1)</div> <div>• System (2)</div> <div>• Subsystem (3)</div> <div>• Discipline (1)</div> <div>• Device Type (3)</div> <div>Go through</div> <div>• name parts level 1</div> <div> name parts level 2</div> <div> name parts level 3</div>

Content						
history						
GET		/history/deviceNames/name/{name}		Finds history for ESS names given search parameters (exact match) name (required) from, to, type (optional). SQL statements for namepart, namepartrevision, device, devicerevision tables. Loop through returned rows.		
GET		/history/deviceNames/uuid/{uuid}		Finds history for ESS names given search parameters (exact match) uuid (required) from, to, type (optional). SQL statements for namepart, device, devicerevision tables. Loop through returned rows.		
GET		/historyparts/mnemonic/{mnemonic}		Finds history for name parts given search parameters (exact match) mnemonic (required) from, to, type (optional) SQL statements for namepart, namepartrevision, device, devicerevision tables. Loop through returned rows.		Consider status. For <ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type Combine / choose query results.
GET		/history/parts/uuid/{uuid}		Finds history for name parts given search parameters (exact match) uuid (required) from, to, type (optional) SQL statements for namepart, namepartrevision, device, devicerevision tables. Loop through returned rows.		Consider status. For <ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type Combine / choose query results.

Content						
deviceNames						
GET		/deviceNames		<div>Lists all devices</div> <div><pre>select * from device d, devicerevision_device dd where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id)</pre></div> <div>Loop through returned rows.</div>		Not consider status. Return most recent for each device.
GET		/deviceNames/devicetype/search/{devicetype}		<div>Finds all devices with given device type (search)</div> <div><pre>select * from device d, devicerevision_device dd, namepartrevision_devicetype dt where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id) and dt.namepart_id = dd.namepartrevision_devicetype_namepart_id and dt.id = (select max(dt2.id) from namepart np2, namepartrevision_devicetype dt2 where dt2.namepart_id = np2.id and np2.id = dt.namepart_id)</pre></div> <div>Loop through returned rows and match with regex / <code>devicetype</code> for search.</div>		Not consider status. Return most recent for given parameter.
GET		/deviceNames/devicetype/{devicetype}		<div>Finds all devices with given device type (exact match)</div> <div><pre>select * from device d, devicerevision_device dd, namepartrevision_devicetype dt where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id) and dt.namepart_id = dd.namepartrevision_devicetype_namepart_id and dt.id = (select max(dt2.id) from namepart np2, namepartrevision_devicetype dt2 where dt2.namepart_id = np2.id and np2.id = dt.namepart_id) and dt.mnemonic = 'devicetype'</pre></div> <div>Loop through returned rows.</div>		Not consider status. Return most recent for given parameter.
GET		/deviceNames/discipline/search/{discipline}		<div>Finds all devices with given discipline (search)</div> <div><pre>select * from device d, devicerevision_device dd, namepartrevision_devicetype dt, namepartrevision_devicegroup dg, namepartrevision_discipline di where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id) and dt.namepart_id = dd.namepartrevision_devicetype_namepart_id and dt.id = (select max(dt2.id) from namepart np2, namepartrevision_devicetype dt2 where dt2.namepart_id = np2.id and np2.id = dt.namepart_id) and dg.namepart_id = dt.parent_namepart_id and dg.id = (select max(dg2.id) from namepart np2, namepartrevision_devicegroup dg2 where dg2.namepart_id = np2.id and np2.id = dg.namepart_id) and di.namepart_id = dg.parent_namepart_id and di.id = (select max(di2.id) from namepart np2, namepartrevision_discipline di2 where di2.namepart_id = np2.id and np2.id = di.namepart_id)</pre></div> <div>Loop through returned rows and match with regex / <code>discipline</code> for search.</div>		Not consider status. Return most recent for given parameter.
GET		/deviceNames/discipline/{discipline}		<div>Finds all devices with given discipline (exact match)</div> <div><pre>select * from device d, devicerevision_device dd, namepartrevision_devicetype dt, namepartrevision_devicegroup dg, namepartrevision_discipline di where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id) and dt.namepart_id = dd.namepartrevision_devicetype_namepart_id and dt.id = (select max(dt2.id) from namepart np2, namepartrevision_devicetype dt2 where dt2.namepart_id = np2.id and np2.id = dt.namepart_id) and dg.namepart_id = dt.parent_namepart_id and dg.id = (select max(dg2.id) from namepart np2, namepartrevision_devicegroup dg2 where dg2.namepart_id = np2.id and np2.id = dg.namepart_id) and di.namepart_id = dg.parent_namepart_id and di.id = (select max(di2.id) from namepart np2, namepartrevision_discipline di2 where di2.namepart_id = np2.id and np2.id = di.namepart_id) and di.mnemonic = 'discipline'</pre></div> <div>Loop through returned rows.</div>		Not consider status. Return most recent for given parameter.
GET		/deviceNames/search/{searchText}		<div>Finds all devices containing given text (search)</div> <div><pre>select * from device d, devicerevision_device dd where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id)</pre></div> <div>Loop through returned rows and match with regex / <code>searchText</code> for search.</div>		Not consider status. Return most recent for given parameter.
GET		/deviceNames/subsystem/search/{subsystem}		<div>Finds all devices by given subsystem (search)</div> <div><pre>select * from device d, devicerevision_device dd, namepartrevision_subsystem sub where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id) and sub.namepart_id = dd.namepartrevision_subsystem_namepart_id and sub.id = (select max(sub2.id) from namepart np2, namepartrevision_subsystem sub2 where sub2.namepart_id = np2.id and np2.id = sub.namepart_id)</pre></div> <div>Loop through returned rows and match with regex / <code>subsystem</code> for search.</div>		Not consider status. Return most recent for given parameter.
GET		/deviceNames/subsystem/{subsystem}		<div>Finds all devices by given subsystem (exact match)</div> <div><pre>select * from device d, devicerevision_device dd, namepartrevision_subsystem sub where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id) and sub.namepart_id = dd.namepartrevision_subsystem_namepart_id and sub.id = (select max(sub2.id) from namepart np2, namepartrevision_subsystem sub2 where sub2.namepart_id = np2.id and np2.id = sub.namepart_id) and sub.mnemonic = 'subsystem'</pre></div> <div>Loop through returned rows.</div>		Not consider status. Return most recent for given parameter.

Content						
deviceNames						
GET		/deviceNames/system/search/{system}		<div><p>Finds all devices by given system (search)</p><pre>select * from device d, devicerevision_device dd, namepartrevision_systemgroup sg where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id) and sg.namepart_id = dd.namepartrevision_systemgroup_namepart_id and sg.id = (select max(sg2.id) from namepart np2, namepartrevision_systemgroup sg2 where sg2.namepart_id = np2.id and np2.id = sg.namepart_id) select * from device d, devicerevision_device dd, namepartrevision_system sys where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id) and sys.namepart_id = dd.namepartrevision_system_namepart_id and sys.id = (select max(sys2.id) from namepart np2, namepartrevision_system sys2 where sys2.namepart_id = np2.id and np2.id = sys.namepart_id)</pre><p>Loop through returned rows and match with regex / <code>system</code> for search.</p></div>		<div><p>Not consider status. Return most recent for given parameter.</p><p>For</p><ul style="list-style-type: none">System GroupSystem.<p>Combine query results.</p></div>
GET		/deviceNames/system/{system}		<div><p>Finds all devices by given system (exact match)</p><pre>select * from device d, devicerevision_device dd, namepartrevision_systemgroup sg where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id) and sg.namepart_id = dd.namepartrevision_systemgroup_namepart_id and sg.id = (select max(sg2.id) from namepart np2, namepartrevision_systemgroup sg2 where sg2.namepart_id = np2.id and np2.id = sg.namepart_id) and sg.mnemonic = 'system' select * from device d, devicerevision_device dd, namepartrevision_system sys where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id) and sys.namepart_id = dd.namepartrevision_system_namepart_id and sys.id = (select max(sys2.id) from namepart np2, namepartrevision_system sys2 where sys2.namepart_id = np2.id and np2.id = sys.namepart_id) and sys.mnemonic = 'system'</pre><p>Loop through returned rows.</p></div>		<div><p>Not consider status. Return most recent for given parameter.</p><p>For</p><ul style="list-style-type: none">System GroupSystem.<p>Combine query results.</p></div>
GET		/deviceNames/{uuid}		<div><p>Finds device by uuid or name</p><pre>select * from device d, devicerevision_device dd where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id) and d.uuid = 'uuid' select * from device d, devicerevision_device dd where dd.device_id = d.id and dd.id = (select max(dd2.id) from device d2, devicerevision_device dd2 where dd2.device_id = d2.id and d2.id = d.id) and dd.conventionname = 'uuid'</pre><p>Loop through returned rows.</p></div>		<div><p>Not consider status. Return most recent for given parameter.</p></div>
healthcheck						
GET		/healthcheck		<div><p>Healthcheck of Naming application</p><pre>// return healthcheck as server timestamp // datetime - dateStyle, timeStyle - full</pre><p>Reuse current implementation.</p></div>		<div><p>Return http response code 200 to show that application is up and running.</p></div>

Content					
parts					
GET		/parts/mnemonic/search/{searchText}		<div><p>Finds all parts containing mnemonic with the specific search text.</p><pre>select * from namepart np, namepartrevision_systemgroup sg where sg.namepart_id = np.id and sg.id = (select max(sg2.id) from namepart np2, namepartrevision_systemgroup sg2 where sg2.namepart_id = np2.id and np2.id = np.id) select * from namepart np, namepartrevision_system sys where sys.namepart_id = np.id and sys.id = (select max(sys2.id) from namepart np2, namepartrevision_system sys2 where sys2.namepart_id = np2.id and np2.id = np.id) select * from namepart np, namepartrevision_subsystem sub where sub.namepart_id = np.id and sub.id = (select max(sub2.id) from namepart np2, namepartrevision_subsystem sub2 where sub2.namepart_id = np2.id and np2.id = np.id) select * from namepart np, namepartrevision_discipline di where di.namepart_id = np.id and di.id = (select max(di2.id) from namepart np2, namepartrevision_discipline di2 where di2.namepart_id = np2.id and np2.id = np.id) select * from namepart np, namepartrevision_devicetype dt where dt.namepart_id = np.id and dt.id = (select max(dt2.id) from namepart np2, namepartrevision_devicetype dt2 where dt2.namepart_id = np2.id and np2.id = np.id)</pre><p>Loop through returned rows and match with regex / <code>searchText</code> for search.</p></div>	<div><p>Consider status.</p><p>For</p><ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type<p>Combine query results.</p></div>
GET		/parts/mnemonic/{mnemonic}		<div><p>Finds all parts by specific mnemonic.</p><pre>select * from namepart np, namepartrevision_systemgroup sg where sg.namepart_id = np.id and sg.id = (select max(sg2.id) from namepart np2, namepartrevision_systemgroup sg2 where sg2.namepart_id = np2.id and np2.id = np.id) and sg.mnemonic = 'mnemonic' select * from namepart np, namepartrevision_system sys where sys.namepart_id = np.id and sys.id = (select max(sys2.id) from namepart np2, namepartrevision_system sys2 where sys2.namepart_id = np2.id and np2.id = np.id) and sys.mnemonic = 'mnemonic' select * from namepart np, namepartrevision_subsystem sub where sub.namepart_id = np.id and sub.id = (select max(sub2.id) from namepart np2, namepartrevision_subsystem sub2 where sub2.namepart_id = np2.id and np2.id = np.id) and sub.mnemonic = 'mnemonic' select * from namepart np, namepartrevision_discipline di where di.namepart_id = np.id and di.id = (select max(di2.id) from namepart np2, namepartrevision_discipline di2 where di2.namepart_id = np2.id and np2.id = np.id) and di.mnemonic = 'mnemonic' select * from namepart np, namepartrevision_devicetype dt where dt.namepart_id = np.id and dt.id = (select max(dt2.id) from namepart np2, namepartrevision_devicetype dt2 where dt2.namepart_id = np2.id and np2.id = np.id) and dt.mnemonic = 'mnemonic'</pre><p>Loop through returned rows.</p></div>	<div><p>Consider status.</p><p>For</p><ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type<p>Combine query results.</p></div>
GET		/parts/mnemonicPath/search/{searchText}		<div><p>Finds all parts containing mnemonic path with the specific search text.</p><p>Level 1</p><pre>select sg.mnemonic from namepart np, namepartrevision_systemgroup sg where sg.namepart_id = np.id and sg.id = (select max(sg2.id) from namepart np2, namepartrevision_systemgroup sg2 where sg2.namepart_id = np2.id and np2.id = np.id) select di.mnemonic from namepart np, namepartrevision_discipline di where di.namepart_id = np.id and di.id = (select max(di2.id) from namepart np2, namepartrevision_discipline di2 where di2.namepart_id = np2.id and np2.id = np.id)</pre><p>Level 2</p><pre>select sg.mnemonic, sys.mnemonic from namepart npsys, namepartrevision_system sys, namepartrevision_systemgroup sg where sys.namepart_id = npsys.id and sys.id = (select max(sys2.id) from namepart npsys2, namepartrevision_system sys2 where sys2.namepart_id = npsys2.id and npsys2.id = npsys.id) and sg.namepart_id = sys.parent_namepart_id and sg.id = (select max(sg2.id) from namepart np2, namepartrevision_systemgroup sg2 where sg2.namepart_id = np2.id and np2.id = sg.namepart_id);</pre><p>Level 3</p><pre>select sg.mnemonic, sys.mnemonic, sub.mnemonic from namepart npsub, namepartrevision_subsystem sub, namepartrevision_system sys, namepartrevision_systemgroup sg where sub.namepart_id = npsub.id and sub.id = (select max(sub2.id) from namepart npsub2, namepartrevision_subsystem sub2 where sub2.namepart_id = npsub2.id and npsub2.id = npsub.id) and sys.namepart_id = sub.parent_namepart_id and sys.id = (select max(sys2.id) from namepart np2, namepartrevision_system sys2 where sys2.namepart_id = np2.id and np2.id = sys.namepart_id) and sg.namepart_id = sys.parent_namepart_id and sg.id = (select max(sg2.id) from namepart np2, namepartrevision_systemgroup sg2 where sg2.namepart_id = np2.id and np2.id = sg.namepart_id) select di.mnemonic, dt.mnemonic from namepart npdt, namepartrevision_devicetype dt, namepartrevision_devicegroup dg, namepartrevision_discipline di where dt.namepart_id = npdt.id and dt.id = (select max(dt2.id) from namepart npdt2, namepartrevision_devicetype dt2 where dt2.namepart_id = npdt2.id and npdt2.id = npdt.id) and dg.namepart_id = dt.parent_namepart_id and dg.id = (select max(dg2.id) from namepart np2, namepartrevision_devicegroup dg2 where dg2.namepart_id = np2.id and np2.id = dg.namepart_id) and di.namepart_id = dg.parent_namepart_id and di.id = (select max(di2.id) from namepart np2, namepartrevision_discipline di2 where di2.namepart_id = np2.id and np2.id = di.namepart_id)</pre><p>Loop through returned rows.</p></div>	<div><p>Consider status.</p><p>For</p><ul style="list-style-type: none">System Group (1)System (2)Subsystem (3)Discipline (1)Device Type (3)<p>Go through</p><ul style="list-style-type: none">name parts level 1name parts level 2name parts level 3<p>Combine query results.</p></div>

Content					
history					
GET		/history/deviceNames/name/{name}		<div>Finds history for ESS names given search parameters (exact match) name (required) from, to, type (optional).</div> <div><pre>select * from device d, devicerevision_device dd, namepartrevision_devicetype dt where dd.device_id = d.id and dd.conventionName = 'name'</pre></div> <div>Loop through returned rows.</div>	
GET		/history/deviceNames/uuid/{uuid}		<div>Finds history for ESS names given search parameters (exact match) uuid (required) from, to, type (optional).</div> <div><pre>select * from device d, devicerevision_device dd, namepartrevision_devicetype dt where dd.device_id = d.id and d.uuid = 'uuid'</pre></div> <div>Loop through returned rows.</div>	
GET		/historyparts/mnemonic/{mnemonic}		<div>Finds history for name parts given search parameters (exact match) mnemonic (required) from, to, type (optional)</div> <div><pre>select * from namepart np, namepartrevision_systemgroup sg where sg.namepart_id = np.id and sg.mnemonic = 'mnemonic'</pre></div> <div><pre>select * from namepart np, namepartrevision_system sys where sys.namepart_id = np.id and sys.mnemonic = 'mnemonic'</pre></div> <div><pre>select * from namepart np, namepartrevision_subsystem sub where sub.namepart_id = np.id and sub.mnemonic = 'mnemonic'</pre></div> <div><pre>select * from namepart np, namepartrevision_discipline di where di.namepart_id = np.id and di.mnemonic = 'mnemonic'</pre></div> <div><pre>select * from namepart np, namepartrevision_devicetype dt where dt.namepart_id = np.id and dt.mnemonic = 'mnemonic'</pre></div> <div>Loop through returned rows.</div>	<div>Consider status.</div> <div>For<ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type</div> <div>Combine / choose query results.</div>
GET		/history/parts/uuid/{uuid}		<div>Finds history for name parts given search parameters (exact match) uuid (required) from, to, type (optional)</div> <div><pre>select * from namepart np, namepartrevision_systemgroup sg where sg.namepart_id = np.id and np.uuid = 'uuid'</pre></div> <div><pre>select * from namepart np, namepartrevision_system sys where sys.namepart_id = np.id and np.uuid = 'uuid'</pre></div> <div><pre>select * from namepart np, namepartrevision_subsystem sub where sub.namepart_id = np.id and np.uuid = 'uuid'</pre></div> <div><pre>select * from namepart np, namepartrevision_discipline di where di.namepart_id = np.id and np.uuid = 'uuid'</pre></div> <div><pre>select * from namepart np, namepartrevision_devicetype dt where dt.namepart_id = np.id and np.uuid = 'uuid'</pre></div> <div>Loop through returned rows.</div>	<div>Consider status.</div> <div>For<ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type</div> <div>Combine / choose query results.</div>

Content						
deviceNames						
GET		/deviceNames		<div>Lists all devices</div> <div><pre>select * from devicerevision_device dd where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid)</pre></div> <div>Loop through returned rows.</div>		Not consider status. Return most recent for each device.
GET		/deviceNames/devicetype/search/{devicetype}		<div>Finds all devices with given device type (search)</div> <div><pre>select * from devicerevision_device dd, namepartrevision_devicetype dt where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid) and dt.uuid = dd.namepartrevision_devicetype_uuid and dt.id = (select max(dt2.id) from namepartrevision_devicetype dt2 where dt2.uuid = dt.uuid)</pre></div> <div>Loop through returned rows and match with regex / devicetype for search.</div>		Not consider status. Return most recent for given parameter.
GET		/deviceNames/devicetype/{devicetype}		<div>Finds all devices with given device type (exact match)</div> <div><pre>select * from devicerevision_device dd, namepartrevision_devicetype dt where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid) and dt.uuid = dd.namepartrevision_devicetype_uuid and dt.id = (select max(dt2.id) from namepartrevision_devicetype dt2 where dt2.uuid = dt.uuid) and dt.mnemonic = 'devicetype'</pre></div> <div>Loop through returned rows.</div>		Not consider status. Return most recent for given parameter.
GET		/deviceNames/discipline/search/{discipline}		<div>Finds all devices with given discipline (search)</div> <div><pre>select * from devicerevision_device dd, namepartrevision_devicetype dt, namepartrevision_devicegroup dg, namepartrevision_discipline di where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid) and dt.uuid = dd.namepartrevision_devicetype_uuid and dt.id = (select max(dt2.id) from namepartrevision_devicetype dt2 where dt2.uuid = dt.uuid) and dg.uuid = dt.parent_uuid and dg.id = (select max(dg2.id) from namepartrevision_devicegroup dg2 where dg2.uuid = dg.uuid) and di.uuid = dg.parent_uuid and di.id = (select max(di2.id) from namepartrevision_discipline di2 where di2.uuid = di.uuid)</pre></div> <div>Loop through returned rows and match with regex / discipline for search.</div>		Not consider status. Return most recent for given parameter.
GET		/deviceNames/discipline/{discipline}		<div>Finds all devices with given discipline (exact match)</div> <div><pre>select * from devicerevision_device dd, namepartrevision_devicetype dt, namepartrevision_devicegroup dg, namepartrevision_discipline di where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid) and dt.uuid = dd.namepartrevision_devicetype_uuid and dt.id = (select max(dt2.id) from namepartrevision_devicetype dt2 where dt2.uuid = dt.uuid) and dg.uuid = dt.parent_uuid and dg.id = (select max(dg2.id) from namepartrevision_devicegroup dg2 where dg2.uuid = dg.uuid) and di.uuid = dg.parent_uuid and di.id = (select max(di2.id) from namepartrevision_discipline di2 where di2.uuid = di.uuid) and di.mnemonic = 'discipline'</pre></div> <div>Loop through returned rows.</div>		Not consider status. Return most recent for given parameter.
GET		/deviceNames/search/{searchText}		<div>Finds all devices containing given text (search)</div> <div><pre>select * from devicerevision_device dd where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid)</pre></div> <div>Loop through returned rows and match with regex / searchText for search.</div>		Not consider status. Return most recent for given parameter.
GET		/deviceNames/subsystem/search/{subsystem}		<div>Finds all devices by given subsystem (search)</div> <div><pre>select * from devicerevision_device dd, namepartrevision_subsystem sub where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid) and sub.uuid = dd.namepartrevision_subsystem_uuid and sub.id = (select max(sub2.id) from namepartrevision_subsystem sub2 where sub2.uuid = sub.uuid)</pre></div> <div>Loop through returned rows and match with regex / subsystem for search.</div>		Not consider status. Return most recent for given parameter.
GET		/deviceNames/subsystem/{subsystem}		<div>Finds all devices by given subsystem (exact match)</div> <div><pre>select * from devicerevision_device dd, namepartrevision_subsystem sub where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid) and sub.uuid = dd.namepartrevision_subsystem_uuid and sub.id = (select max(sub2.id) from namepartrevision_subsystem sub2 where sub2.uuid = sub.uuid) and sub.mnemonic = 'subsystem'</pre></div> <div>Loop through returned rows.</div>		Not consider status. Return most recent for given parameter.

Content						
deviceNames						
GET		/deviceNames/system/search/{system}		<div><div>Finds all devices by given system (search)</div><div><pre>select * from devicerevision_device dd, namepartrevision_systemgroup sg where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid) and sg.uuid = dd.namepartrevision_systemgroup_uuid and sg.id = (select max(sg2.id) from namepartrevision_systemgroup sg2 where sg2.uuid = sg.uuid) select * from devicerevision_device dd, namepartrevision_system sys where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid) and sys.uuid = dd.namepartrevision_system_uuid and sys.id = (select max(sys2.id) from namepartrevision_system sys2 where sys2.uuid = sys.uuid)</pre></div><div>Loop through returned rows and match with regex / <code>system</code> for search.</div></div>		<div>Not consider status. Return most recent for given parameter.</div> <div>For<ul style="list-style-type: none">System GroupSystem.</div> <div>Combine query results.</div>
GET		/deviceNames/system/{system}		<div><div>Finds all devices by given system (exact match)</div><div><pre>select * from devicerevision_device dd, namepartrevision_systemgroup sg where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid) and sg.uuid = dd.namepartrevision_systemgroup_uuid and sg.id = (select max(sg2.id) from namepartrevision_systemgroup sg2 where sg2.uuid = sg.uuid) and sg.mnemonic = 'system' select * from devicerevision_device dd, namepartrevision_system sys where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid) and sys.uuid = dd.namepartrevision_system_uuid and sys.id = (select max(sys2.id) from namepartrevision_system sys2 where sys2.uuid = sys.uuid) and sys.mnemonic = 'system'</pre></div><div>Loop through returned rows.</div></div>		<div>Not consider status. Return most recent for given parameter.</div> <div>For<ul style="list-style-type: none">System GroupSystem.</div> <div>Combine query results.</div>
GET		/deviceNames/{uuid}		<div><div>Finds device by uuid or name</div><div><pre>select * from devicerevision_device dd where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid) and dd.uuid = 'uuid' select * from devicerevision_device dd where dd.id = (select max(dd2.id) from devicerevision_device dd2 where dd2.uuid = dd.uuid) and dd.conventionname = 'uuid'</pre></div><div>Loop through returned rows.</div></div>		<div>Not consider status. Return most recent for given parameter.</div>
healthcheck						
GET		/healthcheck		<div>Healthcheck of Naming application</div> <div><pre>// return healthcheck as server timestamp // datetime - dateStyle, timeStyle - full</pre></div> <div>Reuse current implementation.</div>		<div>Return http response code 200 to show that application is up and running.</div>

Content					
parts					
GET		/parts/mnemonic/search/{searchText}		<div><p>Finds all parts containing mnemonic with the specific search text.</p><pre>select * namepartrevision_systemgroup sg where sg.id = (select max(sg2.id) from namepartrevision_systemgroup sg2 where sg2.uuid = sg.uuid) select * from namepartrevision_system sys where sys.id = (select max(sys2.id) from namepartrevision_system sys2 where sys2.uuid = sys.uuid) select * from namepartrevision_subsystem sub where sub.id = (select max(sub2.id) from namepartrevision_subsystem sub2 where sub2.uuid = sub.uuid) select * from namepartrevision_discipline di where di.id = (select max(di2.id) from namepartrevision_discipline di2 where di2.uuid = di.uuid) select * from namepartrevision_devicetype dt where dt.id = (select max(dt2.id) from namepartrevision_devicetype dt2 where dt2.uuid = dt.uuid)</pre><p>Loop through returned rows and match with regex / <code>searchText</code> for search.</p></div>	<div><p>Consider status.</p><p>For</p><ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type<p>Combine query results.</p></div>
GET		/parts/mnemonic/{mnemonic}		<div><p>Finds all parts by specific mnemonic.</p><pre>select * namepartrevision_systemgroup sg where sg.id = (select max(sg2.id) from namepartrevision_systemgroup sg2 where sg2.uuid = sg.uuid) and sg.mnemonic = 'mnemonic' select * from namepartrevision_system sys where sys.id = (select max(sys2.id) from namepartrevision_system sys2 where sys2.uuid = sys.uuid) and sys.mnemonic = 'mnemonic' select * from namepartrevision_subsystem sub where sub.id = (select max(sub2.id) from namepartrevision_subsystem sub2 where sub2.uuid = sub.uuid) and sub.mnemonic = 'mnemonic' select * from namepartrevision_discipline di where di.id = (select max(di2.id) from namepartrevision_discipline di2 where di2.uuid = di.uuid) and di.mnemonic = 'mnemonic' select * from namepartrevision_devicetype dt where dt.id = (select max(dt2.id) from namepartrevision_devicetype dt2 where dt2.uuid = dt.uuid) and dt.mnemonic = 'mnemonic'</pre><p>Loop through returned rows.</p></div>	<div><p>Consider status.</p><p>For</p><ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type<p>Combine query results.</p></div>
GET		/parts/mnemonicPath/search/{searchText}		<div><p>Finds all parts containing mnemonic path with the specific search text.</p><p>Level 1</p><pre>select sg.mnemonic from namepartrevision_systemgroup sg where sg.id = (select max(sg2.id) from namepartrevision_systemgroup sg2 where sg2.uuid = sg.uuid) select di.mnemonic from namepartrevision_discipline di where di.id = (select max(di2.id) from namepartrevision_discipline di2 where di2.uuid = di.uuid)</pre><p>Level 2</p><pre>select sg.mnemonic, sys.mnemonic from namepartrevision_system sys, namepartrevision_systemgroup sg where sys.id = (select max(sys2.id) from namepartrevision_system sys2 where sys2.uuid = sys.uuid) and sg.uuid = sys.parent_uuid and sg.id = (select max(sg2.id) from namepartrevision_systemgroup sg2 where sg2.uuid = sg.uuid)</pre><p>Level 3</p><pre>select sg.mnemonic, sys.mnemonic, sub.mnemonic from namepartrevision_subsystem sub, namepartrevision_system sys, namepartrevision_systemgroup sg where sub.id = (select max(sub2.id) from namepartrevision_subsystem sub2 where sub2.uuid = sub.uuid) and sys.uuid = sub.parent_uuid and sg.uuid = sys.parent_uuid and sg.id = (select max(sg2.id) from namepartrevision_systemgroup sg2 where sg2.uuid = sg.uuid) select di.mnemonic, dt.mnemonic from namepartrevision_devicetype dt, namepartrevision_devicegroup dg, namepartrevision_discipline di where dt.id = (select max(dt2.id) from namepartrevision_devicetype dt2 where dt2.uuid = dt.uuid) and dg.uuid = dt.parent_uuid and dg.id = (select max(dg2.id) from namepartrevision_devicegroup dg2 where dg2.uuid = dg.uuid) and di.uuid = dg.parent_uuid and di.id = (select max(di2.id) from namepartrevision_discipline di2 where di2.uuid = di.uuid)</pre><p>Loop through returned rows.</p></div>	<div><p>Consider status.</p><p>For</p><ul style="list-style-type: none">System Group (1)System (2)Subsystem (3)Discipline (1)Device Type (3)<p>Go through</p><ul style="list-style-type: none">name parts level 1name parts level 2name parts level 3<p>Combine query results.</p></div>

Content					
history					
GET		/history/deviceNames/name/{name}		<div>Finds history for ESS names given search parameters (exact match) name (required) from, to, type (optional).</div> <div><pre>select * from devicerevision_device dd where dd.conventionname = 'uuid'</pre></div> <div>Loop through returned rows.</div>	
GET		/history/deviceNames/uuid/{uuid}		<div>Finds history for ESS names given search parameters (exact match) uuid (required) from, to, type (optional).</div> <div><pre>select * from devicerevision_device dd where dd.uuid = 'uuid'</pre></div> <div>Loop through returned rows.</div>	
GET		/historyparts/mnemonic/{mnemonic}		<div>Finds history for name parts given search parameters (exact match) mnemonic (required) from, to, type (optional)</div> <div><pre>select * from namepartrevision_systemgroup sg where sg.mnemonic = 'mnemonic'</pre></div> <div><pre>select * from namepartrevision_system sys where sys.mnemonic = 'mnemonic'</pre></div> <div><pre>select * from namepartrevision_subsystem sub where sub.mnemonic = 'mnemonic'</pre></div> <div><pre>select * from namepartrevision_discipline di where di.mnemonic = 'mnemonic'</pre></div> <div><pre>select * from namepartrevision_devicetype dt where dt.mnemonic = 'mnemonic'</pre></div> <div>Loop through returned rows.</div>	<div>Consider status.</div> <div>For<ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type</div> <div>Combine / choose query results.</div>
GET		/history/parts/uuid/{uuid}		<div>Finds history for name parts given search parameters (exact match) uuid (required) from, to, type (optional)</div> <div><pre>select * from namepartrevision_systemgroup sg where sg.uuid = 'uuid'</pre></div> <div><pre>select * from namepartrevision_system sys where sys.uuid = 'uuid'</pre></div> <div><pre>select * from namepartrevision_subsystem sub where sub.uuid = 'uuid'</pre></div> <div><pre>select * from namepartrevision_discipline di where di.uuid = 'uuid'</pre></div> <div><pre>select * from namepartrevision_devicetype dt where dt.uuid = 'uuid'</pre></div> <div>Loop through returned rows.</div>	<div>Consider status.</div> <div>For<ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type</div> <div>Combine / choose query results.</div>

Content					
deviceNames					
GET		/deviceNames		<div>Lists all devices</div> <div><pre>select * from devicerevision_device dd where dd.latest = true</pre></div> <div>Loop through returned rows.</div>	<div>Not consider status.</div> <div>Return most recent for each device.</div>
GET		/deviceNames/devicetype/search/{devicetype}		<div>Finds all devices with given device type (search)</div> <div><pre>select * from devicerevision_device dd, namepartrevision_devicetype dt where dd.latest = true and dt.uuid = dd.namepartrevision_devicetype_uuid and dt.latest = true</pre></div> <div>Loop through returned rows and match with regex / devicetype for search.</div>	<div>Not consider status.</div> <div>Return most recent for given parameter.</div>
GET		/deviceNames/devicetype/{devicetype}		<div>Finds all devices with given device type (exact match)</div> <div><pre>select * from devicerevision_device dd, namepartrevision_devicetype dt where dd.latest = true and dt.uuid = dd.namepartrevision_devicetype_uuid and dt.latest = true and dt.mnemonic = 'devicetype'</pre></div> <div>Loop through returned rows.</div>	<div>Not consider status.</div> <div>Return most recent for given parameter.</div>
GET		/deviceNames/discipline/search/{discipline}		<div>Finds all devices with given discipline (search)</div> <div><pre>select * from devicerevision_device dd, namepartrevision_devicetype dt, namepartrevision_devicegroup dg, namepartrevision_discipline di where dd.latest = true and dt.uuid = dd.namepartrevision_devicetype_uuid and dt.latest = true and dg.uuid = dt.parent_uuid and dg.latest = true and di.uuid = dg.parent_uuid and di.latest = true</pre></div> <div>Loop through returned rows and match with regex / discipline for search.</div>	<div>Not consider status.</div> <div>Return most recent for given parameter.</div>
GET		/deviceNames/discipline/{discipline}		<div>Finds all devices with given discipline (exact match)</div> <div><pre>select * from devicerevision_device dd, namepartrevision_devicetype dt, namepartrevision_devicegroup dg, namepartrevision_discipline di where dd.latest = true and dt.uuid = dd.namepartrevision_devicetype_uuid and dt.latest = true and dg.uuid = dt.parent_uuid and dg.latest = true and di.uuid = dg.parent_uuid and di.latest = true and di.mnemonic = 'discipline'</pre></div> <div>Loop through returned rows.</div>	<div>Not consider status.</div> <div>Return most recent for given parameter.</div>
GET		/deviceNames/search/{searchText}		<div>Finds all devices containing given text (search)</div> <div><pre>select * from devicerevision_device dd where dd.latest = true</pre></div> <div>Loop through returned rows and match with regex / searchText for search.</div>	<div>Not consider status.</div> <div>Return most recent for given parameter.</div>
GET		/deviceNames/subsystem/search/{subsystem}		<div>Finds all devices by given subsystem (search)</div> <div><pre>select * from devicerevision_device dd, namepartrevision_subsystem sub where dd.latest = true and sub.uuid = dd.namepartrevision_subsystem_uuid and sub.latest = true</pre></div> <div>Loop through returned rows and match with regex / subsystem for search.</div>	<div>Not consider status.</div> <div>Return most recent for given parameter.</div>
GET		/deviceNames/subsystem/{subsystem}		<div>Finds all devices by given subsystem (exact match)</div> <div><pre>select * from devicerevision_device dd, namepartrevision_subsystem sub where dd.latest = true and sub.uuid = dd.namepartrevision_subsystem_uuid and sub.latest = true and sub.mnemonic = 'subsystem'</pre></div> <div>Loop through returned rows.</div>	<div>Not consider status.</div> <div>Return most recent for given parameter.</div>

Content						
deviceNames						
GET		/deviceNames/system/search/{system}		<div><div>Finds all devices by given system (search)</div><div><pre>select * from devicerevision_device dd, namepartrevision_systemgroup sg where dd.latest = true and sg.uuid = dd.namepartrevision_systemgroup_uuid and sg.latest = true select * from devicerevision_device dd, namepartrevision_system sys where dd.latest = true and sys.uuid = dd.namepartrevision_system_uuid and sys.latest = true</pre></div><div>Loop through returned rows and match with regex / system for search.</div></div>		<div>Not consider status. Return most recent for given parameter.</div> <div>For<ul style="list-style-type: none">System GroupSystem.</div> <div>Combine query results.</div>
GET		/deviceNames/system/{system}		<div><div>Finds all devices by given system (exact match)</div><div><pre>select * from devicerevision_device dd, namepartrevision_systemgroup sg where dd.latest = true and sg.uuid = dd.namepartrevision_systemgroup_uuid and sg.latest = true and sg.mnemonic = 'system' select * from devicerevision_device dd, namepartrevision_system sys where dd.latest = true and sys.uuid = dd.namepartrevision_system_uuid and sys.latest = true and sys.mnemonic = 'system'</pre></div><div>Loop through returned rows.</div></div>		<div>Not consider status. Return most recent for given parameter.</div> <div>For<ul style="list-style-type: none">System GroupSystem.</div> <div>Combine query results.</div>
GET		/deviceNames/{uuid}		<div><div>Finds device by uuid or name</div><div><pre>select * from devicerevision_device dd where dd.latest = true and dd.uuid = 'uuid' select * from devicerevision_device dd where dd.latest = true and dd.conventionname = 'uuid'</pre></div><div>Loop through returned rows.</div></div>		<div>Not consider status. Return most recent for given parameter.</div>
healthcheck						
GET		/healthcheck		<div><div>Healthcheck of Naming application</div><div><pre>// return healthcheck as server timestamp // datetime - dateStyle, timeStyle - full</pre></div><div>Reuse current implementation.</div></div>		<div>Return http response code 200 to show that application is up and running.</div>

Content					
parts					
GET		/parts/mnemonic/search/{searchText}		<div><p>Finds all parts containing mnemonic with the specific search text.</p><pre>select * namepartrevision_systemgroup sg where sg.latest = true select * from namepartrevision_system sys where sys.latest = true select * from namepartrevision_subsystem sub where sub.latest = true select * from namepartrevision_discipline di where di.latest = true select * from namepartrevision_devicetype dt where dt.latest = true</pre><p>Loop through returned rows and match with regex / searchText for search.</p></div>	<div><p>Consider status.</p><p>For</p><ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type<p>Combine query results.</p></div>
GET		/parts/mnemonic/{mnemonic}		<div><p>Finds all parts by specific mnemonic.</p><pre>select * namepartrevision_systemgroup sg where sg.latest = true and sg.mnemonic = 'mnemonic' select * from namepartrevision_system sys where sys.latest = true and sys.mnemonic = 'mnemonic' select * from namepartrevision_subsystem sub where sub.latest = true and sub.mnemonic = 'mnemonic' select * from namepartrevision_discipline di where di.latest = true and di.mnemonic = 'mnemonic' select * from namepartrevision_devicetype dt where dt.latest = true and dt.mnemonic = 'mnemonic'</pre><p>Loop through returned rows.</p></div>	<div><p>Consider status.</p><p>For</p><ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type<p>Combine query results.</p></div>
GET		/parts/mnemonicPath/search/{searchText}		<div><p>Finds all parts containing mnemonic path with the specific search text.</p><p>Level 1</p><pre>select sg.mnemonic from namepartrevision_systemgroup sg where sg.latest = true select di.mnemonic from namepartrevision_discipline di where di.latest = true</pre><p>Level 2</p><pre>select sg.mnemonic, sys.mnemonic from namepartrevision_system sys, namepartrevision_systemgroup sg where sys.latest = true and sg.uuid = sys.parent_uuid and sg.latest = true</pre><p>Level 3</p><pre>select sg.mnemonic, sys.mnemonic, sub.mnemonic from namepartrevision_subsystem sub, namepartrevision_system sys, namepartrevision_systemgroup sg where sub.latest = true and sys.uuid = sub.parent_uuid and sys.latest = true and sg.uuid = sys.parent_uuid and sg.latest = true select di.mnemonic, dt.mnemonic from namepartrevision_devicetype dt, namepartrevision_devicegroup dg, namepartrevision_discipline di where dt.latest = true and dg.uuid = dt.parent_uuid and dg.latest = true and di.uuid = dg.parent_uuid and di.latest = true</pre><p>Loop through returned rows.</p></div>	<div><p>Consider status.</p><p>For</p><ul style="list-style-type: none">System Group (1)System (2)Subsystem (3)Discipline (1)Device Type (3)<p>Go through</p><ul style="list-style-type: none">name parts level 1name parts level 2name parts level 3<p>Combine query results.</p></div>

Content					
history					
GET		/history/deviceNames/name/{name}		<div>Finds history for ESS names given search parameters (exact match) name (required) from, to, type (optional).</div> <div><pre>select * from devicerevision_device dd where dd.conventionname = 'uuid'</pre></div> <div>Loop through returned rows.</div>	
GET		/history/deviceNames/uuid/{uuid}		<div>Finds history for ESS names given search parameters (exact match) uuid (required) from, to, type (optional).</div> <div><pre>select * from devicerevision_device dd where dd.uuid = 'uuid'</pre></div> <div>Loop through returned rows.</div>	
GET		/historyparts/mnemonic/{mnemonic}		<div>Finds history for name parts given search parameters (exact match) mnemonic (required) from, to, type (optional)</div> <div><pre>select * from namepartrevision_systemgroup sg where sg.mnemonic = 'mnemonic'</pre></div> <div><pre>select * from namepartrevision_system sys where sys.mnemonic = 'mnemonic'</pre></div> <div><pre>select * from namepartrevision_subsystem sub where sub.mnemonic = 'mnemonic'</pre></div> <div><pre>select * from namepartrevision_discipline di where di.mnemonic = 'mnemonic'</pre></div> <div><pre>select * from namepartrevision_devicetype dt where dt.mnemonic = 'mnemonic'</pre></div> <div>Loop through returned rows.</div>	<div>Consider status.</div> <div>For<ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type</div> <div>Combine / choose query results.</div>
GET		/history/parts/uuid/{uuid}		<div>Finds history for name parts given search parameters (exact match) uuid (required) from, to, type (optional)</div> <div><pre>select * from namepartrevision_systemgroup sg where sg.uuid = 'uuid'</pre></div> <div><pre>select * from namepartrevision_system sys where sys.uuid = 'uuid'</pre></div> <div><pre>select * from namepartrevision_subsystem sub where sub.uuid = 'uuid'</pre></div> <div><pre>select * from namepartrevision_discipline di where di.uuid = 'uuid'</pre></div> <div><pre>select * from namepartrevision_devicetype dt where dt.uuid = 'uuid'</pre></div> <div>Loop through returned rows.</div>	<div>Consider status.</div> <div>For<ul style="list-style-type: none">System GroupSystemSubsystemDisciplineDevice Type</div> <div>Combine / choose query results.</div>