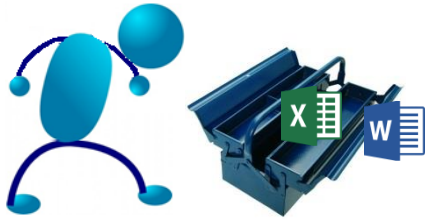
aCIP® - Smart information management

The art of creating order

Is this your life?

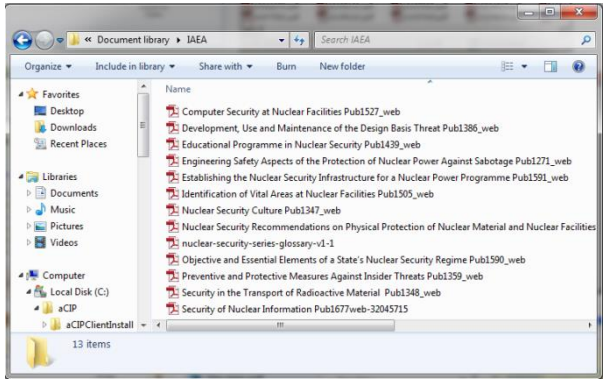
Who need first-aid training this month?

Please get me a requirement fulfillment report for the entry control. Take it easy, I won't need until before lunch.

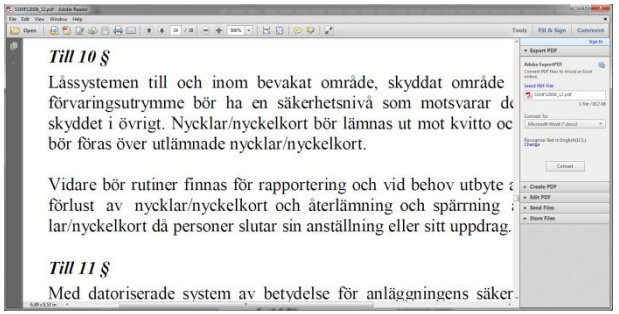


The visitor management computer in the main entrance has gone nuts. Who can help me?

The camera behind pier 3 is broken. Why is it there? Can I remove it?



John will be absent for three months. Who has the competence to replace him?



Till 10 §

Låssystemen till och inom bevakat område, skyddat område förvaringsutrymme bör ha en säkerhetsnivå som motsvarar de skyddet i övrigt. Nycklar/nyckelkort bör lämnas ut mot kvitto och bör föras över utlämnade nycklar/nyckelkort.

Vidare bör rutiner finnas för rapportering och vid behov utbyte förlust av nycklar/nyckelkort och återlämning och spärrning lar/nyckelkort då personer slutar sin anställning eller sitt uppdrag.

Till 11 §

Med datoriserade system av betydelse för anläggningens säker

aCIP®

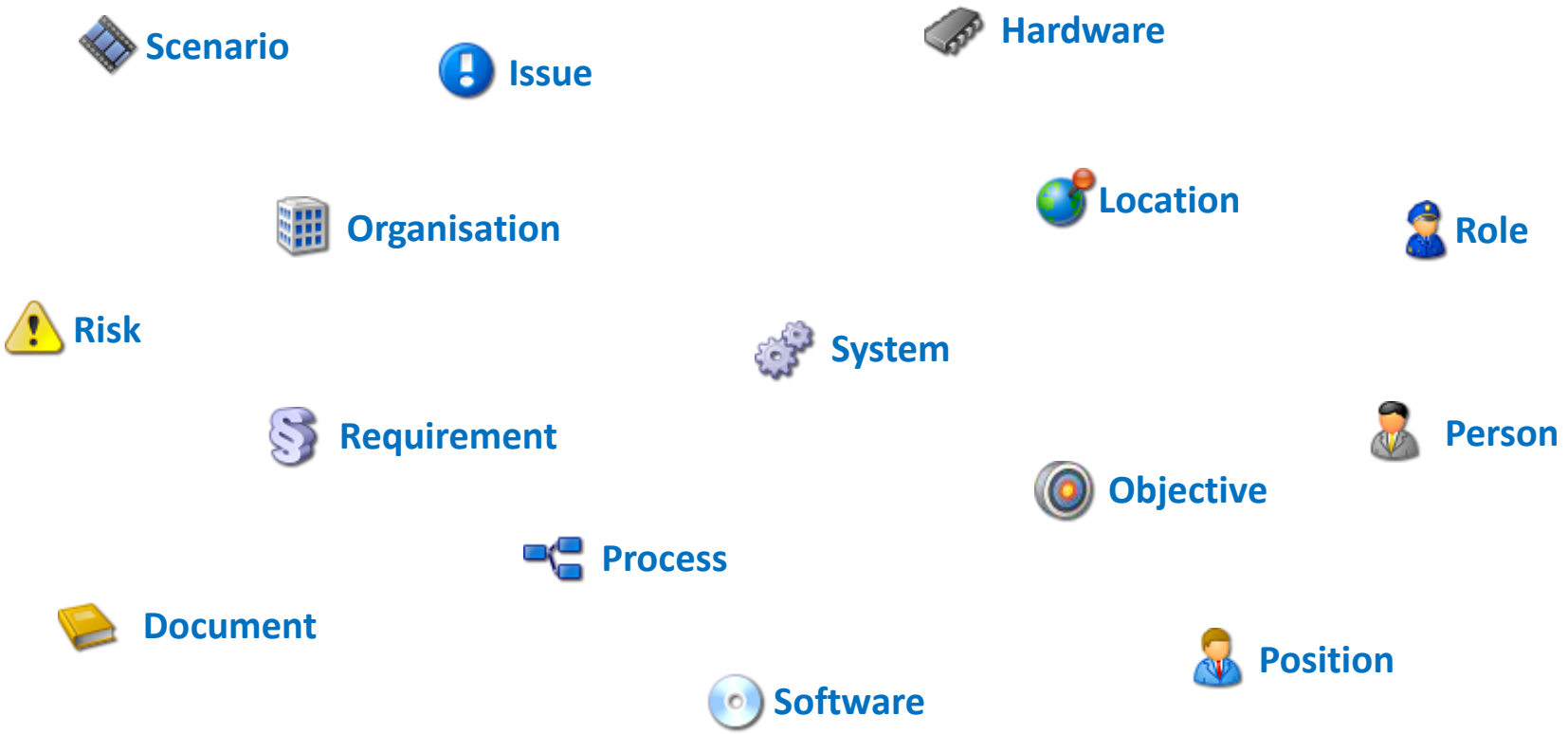
www.aCIP.se

Take it easy, there is hope!

But first a few theses...

Thesis 1

Information describes different types of elements!



Thesis 2

Different element types have different information content!

Role
Title

Position
Title

Person
Name
Telephone
E-mail
Employee no

Requirement
Title
Code
Text
Fulfillment

System
Title
Description
Installed date

Process
Title
Description

Location
Title
Street address
City
Longitude
Latitude

Issue
Title
Description
Priority
Status

Thesis 3

The amount of information that belongs ONLY to one certain element is much less than you think!

Role
Title

Role
Title
Required competences
Operational modes
Performs processes
Commanded by
Commands
Can be performed by

Process
Title
Description

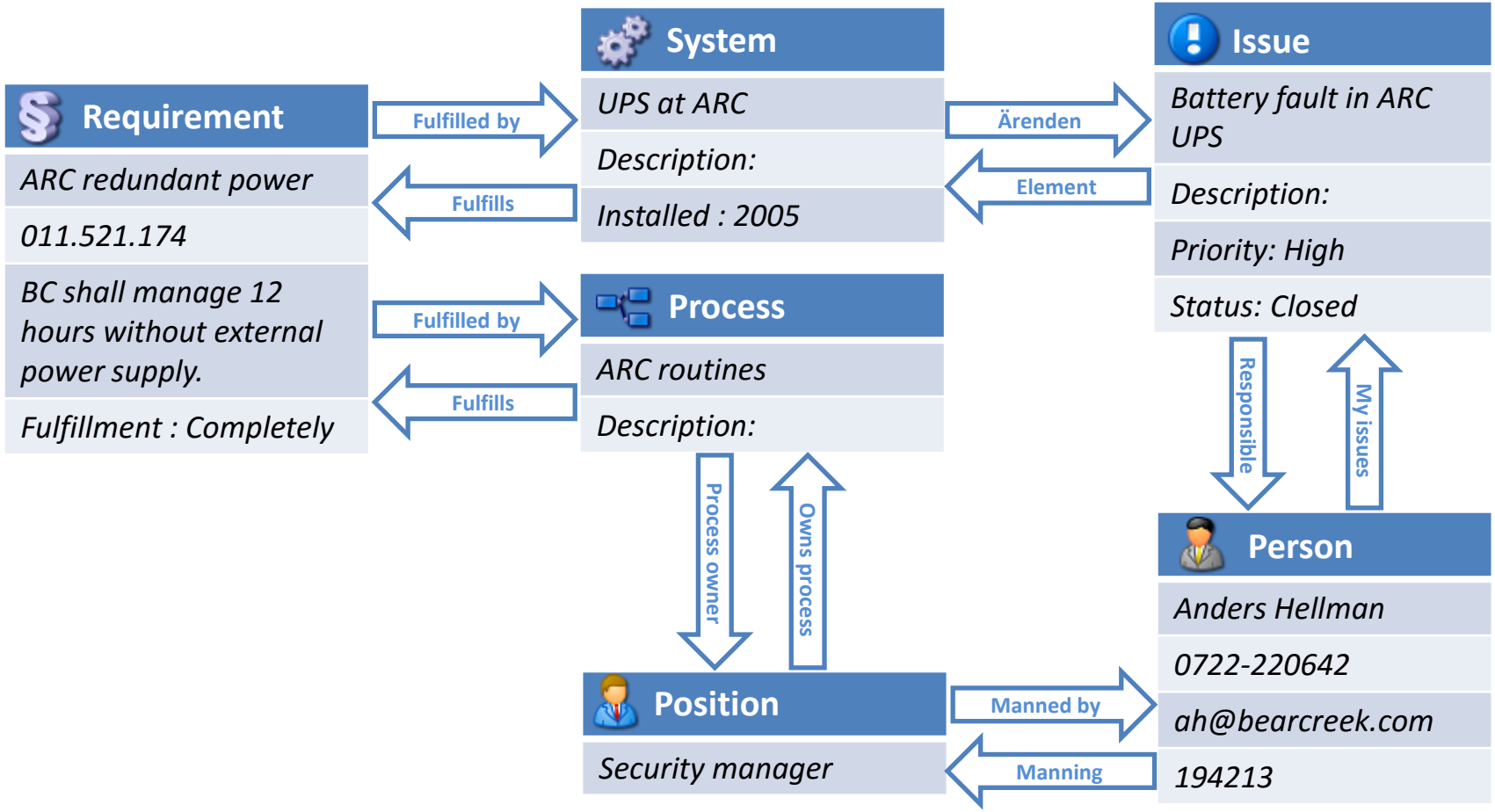
Process
Title
Description
Owner
Performer
Fulfills requirements
Sub-processes
Activities

Issue
Title
Description
Priority
Status

Issue
Title
Description
Priority
Status
Responsible
Connected elements
Created by

Thesis 4

Information elements relate to each others!



Thesis 5

Storing the same information at several places is dangerous!

Befattning
Bevakningschef
Bemannas av: Anders Hellman
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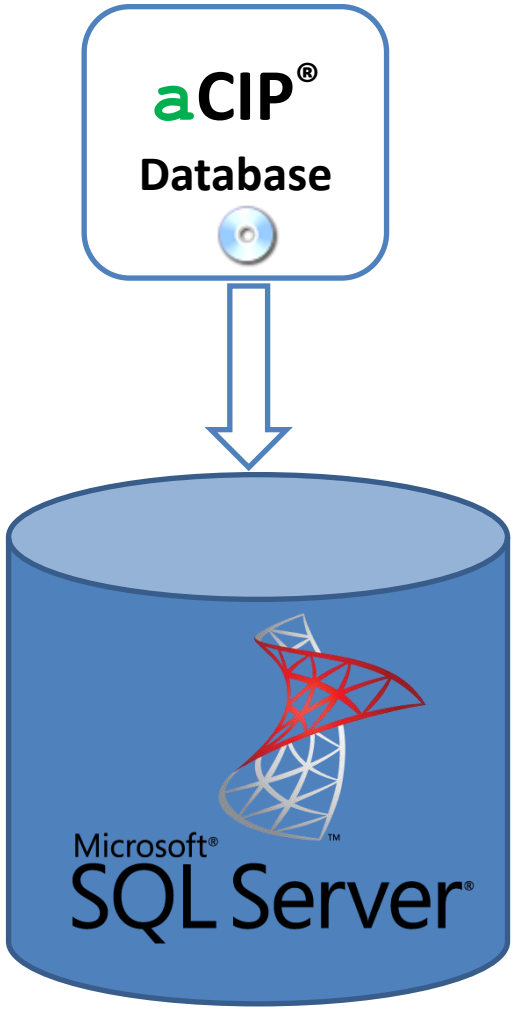
How to make things better

Step 1

Install aCIP® database

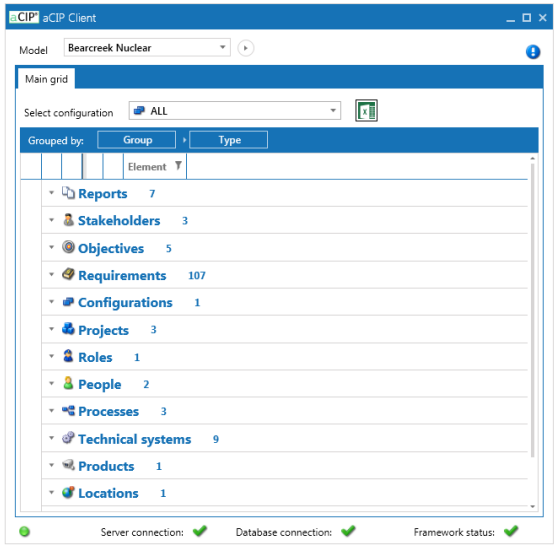
- Database only, no applications or services in the server
- Configure backup
- The database configuration is the same for all data models

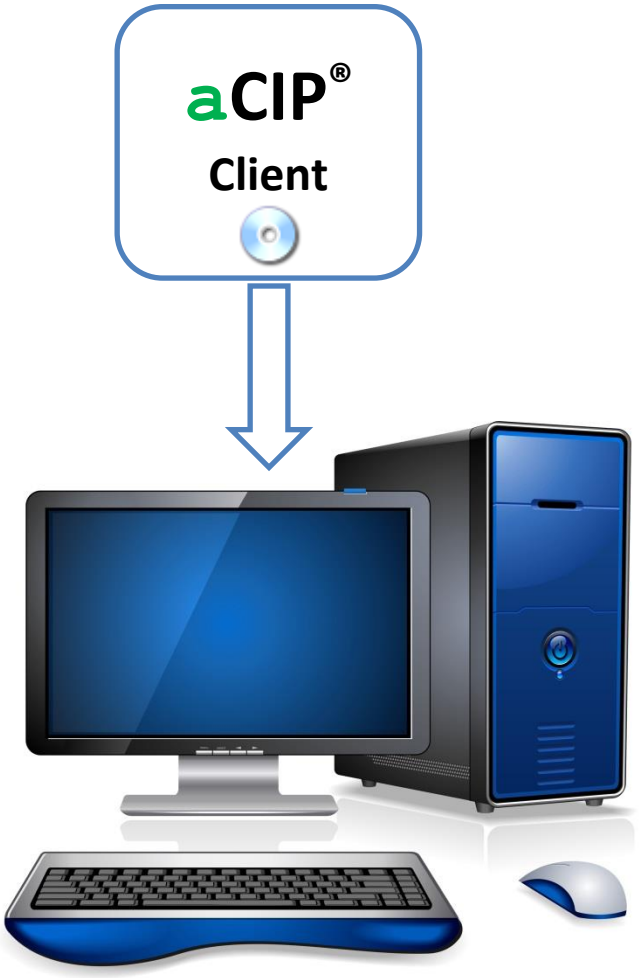


Step 2

Install aCIP® clients

- Install on any number of computers
- The license limits number of simultaneous users
- The same application for all type of clients:
  - Developer
  - Admin
  - Normal
  - Read-only





Step 3 and 4

Create framework and configuration

The framework defines:

- Types of elements, for example requirements , roles, persons, competences
- Types of relations, for example “role requires competences”, “process owner”
- Which relation types can have which element types as source and target

The configuration defines:

- Titles on element and relations types
- The information content in each element and relation type
- Sorting and grouping settings in various lists
- Validation conditions for data
- Field alternative lists (values, titles and color)
- Classification levels (open, restricted, secret etc)
- And quite a lot more…

- ❑ No changes in the database or application are required when changing or updating framework and configuration.
- ❑ One framework can be used with different configurations
- ❑ One configuration can only be used with one framework.
- ❑ Definition of framework and configurations is easily done in an Excel template.

Step 3.1

Define framework – Element types

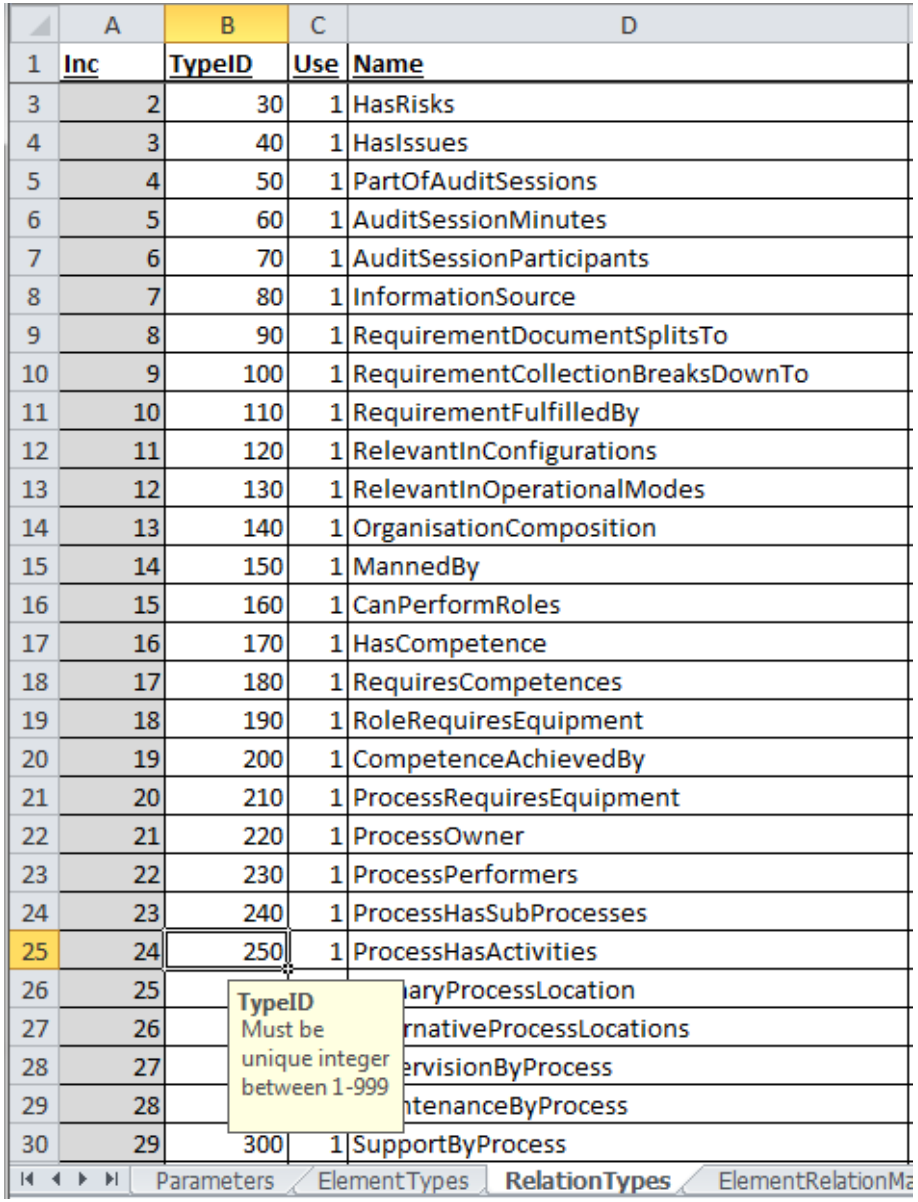
	A	B	C	D	E	F	G
1	Inc	TypeID	Use	Name	IsGroup	ParentType	IconName
8	2	1510	1	Stakeholder	0	1500	Stakeholder
9	3	1900	1	Objectives	1	0	Objective
10	4	1910	1	Objective	0	1900	Objective
11	5	2000	1	Requirements	1	0	Requirements
12	6	2010	1	RequirementDocument	0	2000	Requirements
13	7	2020	1	RequirementCollection	0	2000	Requirements
14	8	2030	1	Requirement	0	2000	Requirement
15	9	4000	1	Organisation	1	0	Organisation
16	10	4010	1	OrganisationItem	0	4010	Organisation
17	11	4500	1	Projects	1	0	Project
18	12	4510	1	Project	0	4500	Project
19	13	4520	1	Subproject	0	4500	Subproject
20	14	4530	1	Task	0	4500	Task
21	15	4531	1	SubTask	0	4500	SubTask
22	16	4540	1	Resource	0	4500	Resource
23	17	4550	1	WorkTime	0	4500	TimeSpan
24	18	5000	1	Assets	1	0	Assets
25	19	5010	1	Asset	0	5000	Asset
26	20	6000	1	Roles	1	0	Roles
27	21	6010	1	Role	0	6000	Roles
28	22		1	Posts	1	0	Posts
29	23		1	Post	0	7000	Posts
30	24		1	People	1	0	People
31	25		1	Person	0	8000	People
32	26		1	Processes	1	0	Processes
33	27	9010	1	Process	0	9000	Processes
34	28	9020	1	Activity	0	9000	Activity
35	29	10000	1	Competences	1	0	Competences
36	30	10010	1	Competence	0	10000	Competences
37	31	11000	1	OperationalModes	1	0	OperationalModes
38	32	11010	1	OperationalMode	0	11000	OperationalModes
39	33	12000	1	TechnicalSystems	1	0	TechnicalSystems
40	34	12010	1	TechnicalSystem	0	12000	TechnicalSystems
41	35	12020	1	SystemComponent	0	12000	SystemComponent
42	36	13000	1	Equipment	1	0	Equipment
43	37	13010	1	PieceOfEquipment	0	13000	Equipment
44	38	14000	1	Products	0	0	Products
45	39	14010	1	Hardware	0	14000	Hardware
46	40	14020	1	Software	0	14000	Software
47	41	15000	1	Suppliers	1	0	Manufacturer

TypeID
Must be unique integer between 1500-79999.

Parameters | ElementTypes | RelationTypes | ElementRelationMatrix | ConfigParameters | FieldAlternativeLists | FieldAlternativeList

Step 3.2

Define framework – Relation types



	A	B	C	D
1	Inc	TypeID	Use	Name
3	2	30	1	HasRisks
4	3	40	1	HasIssues
5	4	50	1	PartOfAuditSessions
6	5	60	1	AuditSessionMinutes
7	6	70	1	AuditSessionParticipants
8	7	80	1	InformationSource
9	8	90	1	RequirementDocumentSplitsTo
10	9	100	1	RequirementCollectionBreaksDownTo
11	10	110	1	RequirementFulfilledBy
12	11	120	1	RelevantInConfigurations
13	12	130	1	RelevantInOperationalModes
14	13	140	1	OrganisationComposition
15	14	150	1	MannedBy
16	15	160	1	CanPerformRoles
17	16	170	1	HasCompetence
18	17	180	1	RequiresCompetences
19	18	190	1	RoleRequiresEquipment
20	19	200	1	CompetenceAchievedBy
21	20	210	1	ProcessRequiresEquipment
22	21	220	1	ProcessOwner
23	22	230	1	ProcessPerformers
24	23	240	1	ProcessHasSubProcesses
25	24	250	1	ProcessHasActivities
26	25			aryProcessLocation
27	26			rnativeProcessLocations
28	27			ervisionByProcess
29	28			ntenanceByProcess
30	29	300	1	SupportByProcess

TypeID
Must be unique integer between 1-999

Parameters | ElementTypes | RelationTypes | ElementRelationMa

Step 3.3

Define framework – ElementRelationsMatrix

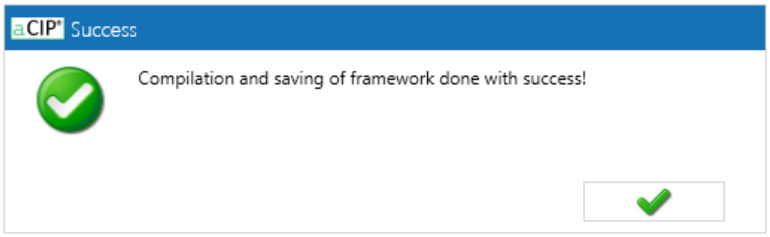
	A	B	C	D	E	F
1	Inc	Use	Relation	Endpoint	Endpoint element type	MaxNoOfEndpoints
164	163	1	OrganisationComposition	Source	OrganisationItem	1
165	164	1	OrganisationComposition	Target	OrganisationItem	0
166	165	1	MannedBy	Source	Post	0
167	166	1	MannedBy	Target	Person	1
168	167	1	CanPerformRoles	Source	Post	0
169	168	1	CanPerformRoles	Target	Role	0
170	169	1	HasCompetence	Source	Person	0
171	170	1	HasCompetence	Target	Competence	0
172	171	1	RequiresCompetences	Source	Role	0
173	172	1	RequiresCompetences	Target	Competence	0
174	173	1	RoleRequiresEquipment	Source	Role	0
175	174	1	RoleRequiresEquipment	Target	PieceOfEquipment	0
176	175	1	CompetenceAchievedBy	Source	Competence	0
177	176	1	CompetenceAchievedBy	Target	Process	0
178	177	1	ProcessRequiresEquipment	Source	Process	0
179	178	1	ProcessRequiresEquipment	Target	PieceOfEquipment	0
180	179	1	ProcessOwner	Source	Process	0
181	180	1	ProcessOwner	Target	Post	1
182	181	1	ProcessPerformers	Source	Process	0
183	182	1	ProcessPerformers	Target	OrganisationItem	0
184	183	1	ProcessPerformers	Target	Role	0
185	184	1	ProcessPerformers	Target	TechnicalSystem	0
186	185	1	ProcessHasSubProcesses	Source	Process	1
187	186	1	ProcessHasSubProcesses	Target	Process	0
188	187	1	ProcessHasActivities	Source	Process	1
189	188	1	ProcessHasActivities	Target	Activity	0
190	189	1	PrimaryProcessLocation	Source	Process	0

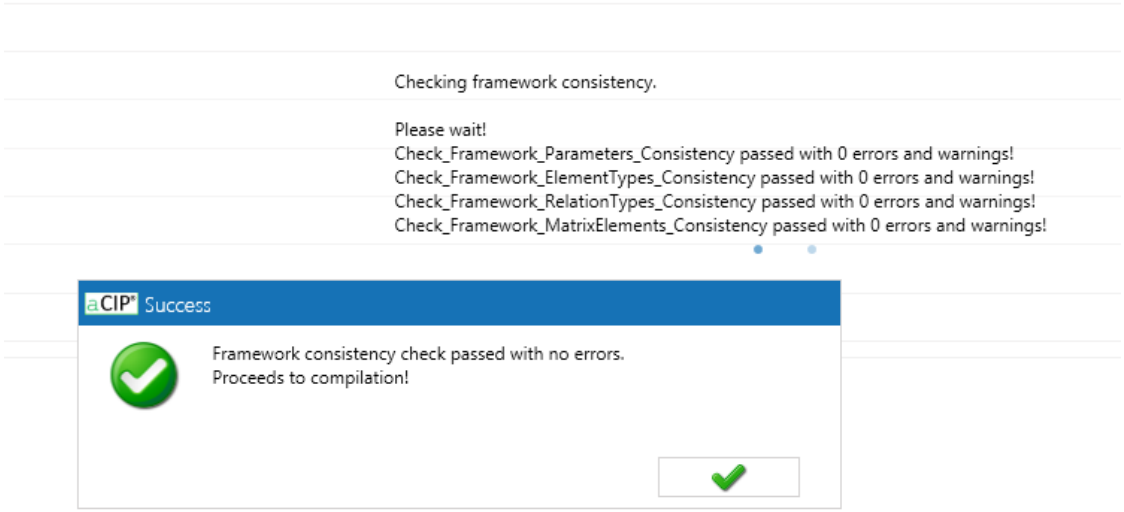
Parameters | ElementTypes | RelationTypes | **ElementRelationMatrix** | ConfigParameters | FieldAlternativeLists | Field

Step 3.4

Compile the framework

- Compilation is done in the client aCIP Developer (if you don't have it you can mail the framework to Adentia for compilation)
- Extensive error check
- Designed for version management of frameworks

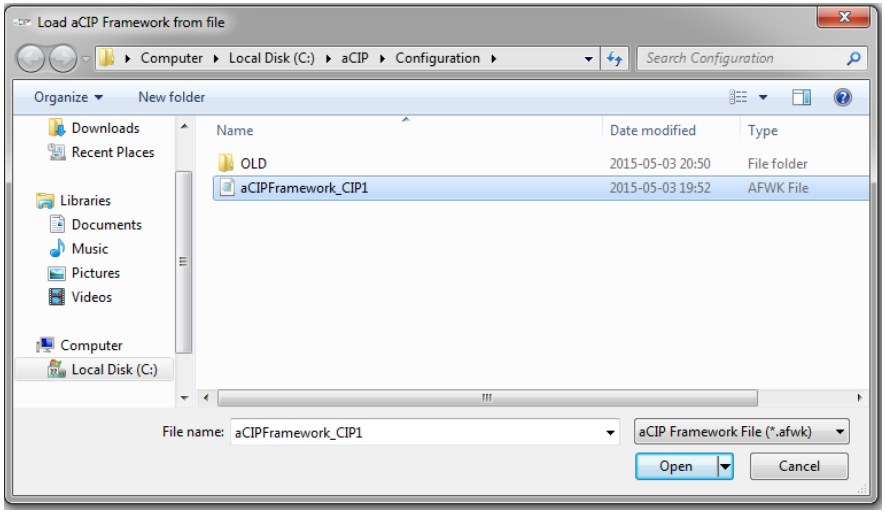




Step 3.5

Load the framework

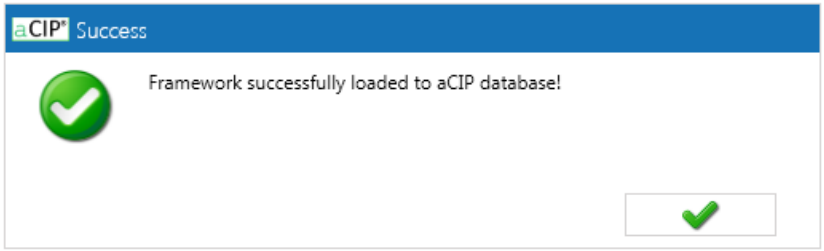
- Start the aCIP client as Admin
- Load the framework file



Loading framework to aCIP database.

Please wait!
Framework file loaded to memory!
Successfully opened framework file.

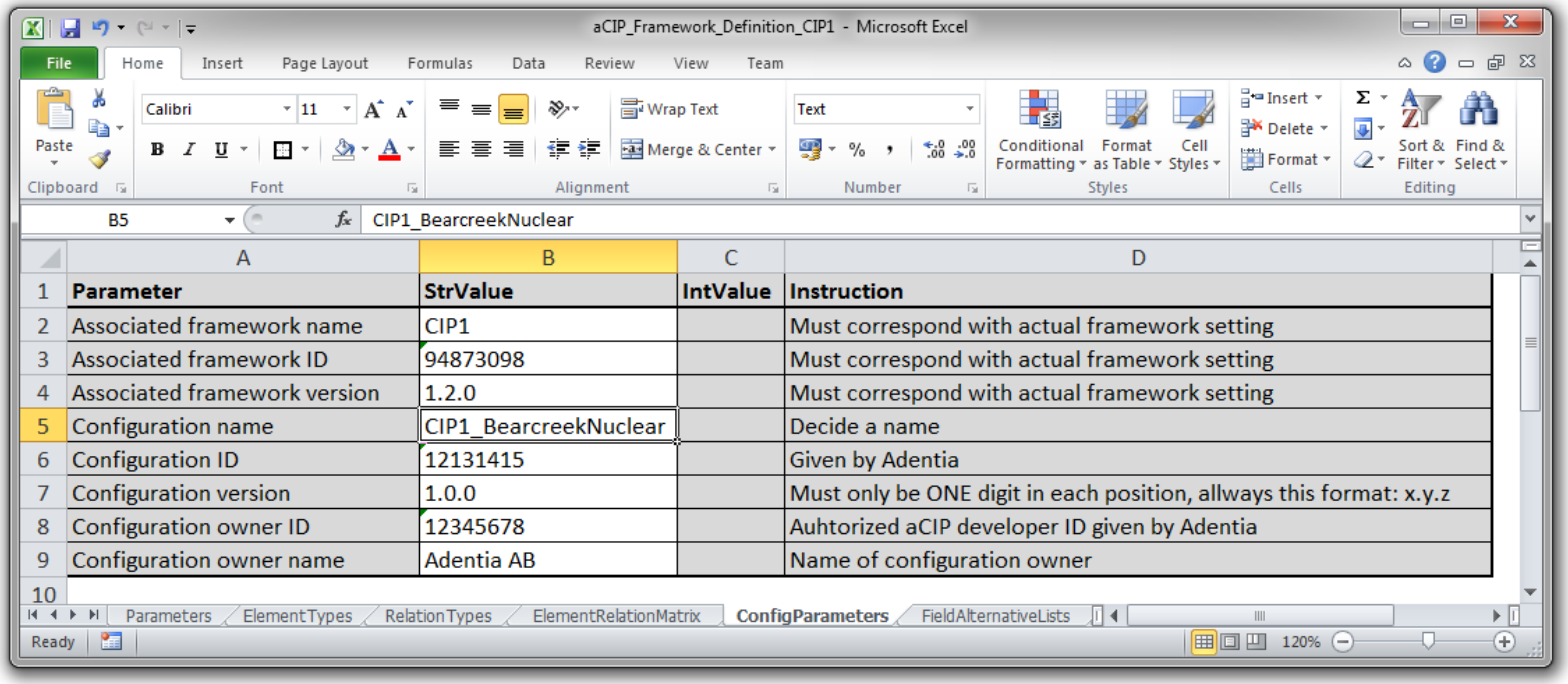
Identified framework: CIP1 Version 1.2.0.
8 parameters erased from framework database!
133 ElementRelationTypes erased from framework database!
311 ElementRelationMatrix posts erased from framework database!
69 ElementTypes successfully stored in framework database!
64 RelationTypes successfully stored in framework database!
311 ElementRelationMatrix posts successfully stored in framework database!
8 parameters successfully stored in framework database!



Step 4.1

Define configuration – Parameters

- The configuration must be tied to a framework



	A	B	C	D
1	**Parameter**	**StrValue**	**IntValue**	**Instruction**
2	Associated framework name	CIP1		Must correspond with actual framework setting
3	Associated framework ID	94873098		Must correspond with actual framework setting
4	Associated framework version	1.2.0		Must correspond with actual framework setting
5	Configuration name	CIP1_BearcreekNuclear		Decide a name
6	Configuration ID	12131415		Given by Adentia
7	Configuration version	1.0.0		Must only be ONE digit in each position, allways this format: x.y.z
8	Configuration owner ID	12345678		Auhtorized aCIP developer ID given by Adentia
9	Configuration owner name	Adentia AB		Name of configuration owner
10				

Step 4.2

Define configuration – Field alternative lists

- These can later be used when defines data fields for elements and relations

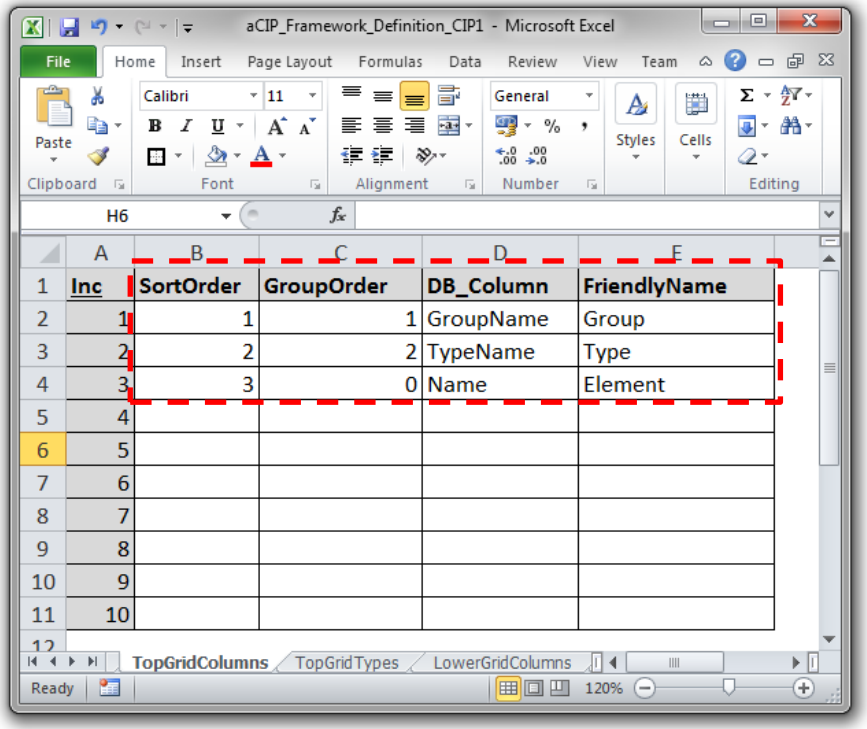
Inc	ListName	EntryNumber	EntryName	EntryValue	EntryColorA	EntryColorR	EntryColorG	EntryColorB	IsSQL	ColorSample	SQLStatement
20	OrganisationType	0	Line	0	255	255	255	255	FALSE		
21	OrganisationType	1	Functional	1	255	255	255	255	FALSE		
22	RequirementStatus	1	Unknown	3	255	255	255	255	FALSE		
23	RequirementStatus	2	Estimated	0	255	255	255	255	FALSE		
24	RequirementStatus	3	Real	1	255	255	255	255	FALSE		
25	ScenarioType	0	Fictive	0	255	255	255	255	FALSE		
26	ScenarioType	1	Real	1	255	255	255	255	FALSE		
27	CrimeSeverety	0	Not a crime	0	255	25	255	25	FALSE		
28	CrimeSeverety	1	Low	1	255	255	255	0	FALSE		
29	CrimeSeverety	2	Medium	2	255	255	100	0	FALSE		
30	CrimeSeverety	3	High	3	255	255	50	0	FALSE		
31	CrimeSeverety	4	Disaster	4	255	255	0	0	FALSE		
32	ToDoImportance	0	Low	0	255	25	255	25	FALSE		
33	ToDoImportance	1	Medium	1	255	255	255	0	FALSE		
34	ToDoImportance	2	High	2	255	255	0	0	FALSE		
35	StepTimingUnit	0	Seconds	1	255	255	255	255	FALSE		
36	StepTimingUnit	1	Minutes	60	255	255	255	255	FALSE		
37	StepTimingUnit	2	Hours	3600	255	255	255	255	FALSE		
38	StepTimingUnit	3	Days	86400	255	255	255	255	FALSE		
39	TaskState	0	Not planned	0	255	214	214	214	FALSE		
40	TaskState	1	Planned	1	255	228	180	110	FALSE		
41	TaskState	2	Ongoing	2	255	152	145	226	FALSE		
42	TaskState	3	Ready for review	3	255	188	247	212	FALSE		
43	TaskState	4	Approved	4	255	116	251	171	FALSE		
44	TaskState	5	Closed	5	255	17	253	113	FALSE		

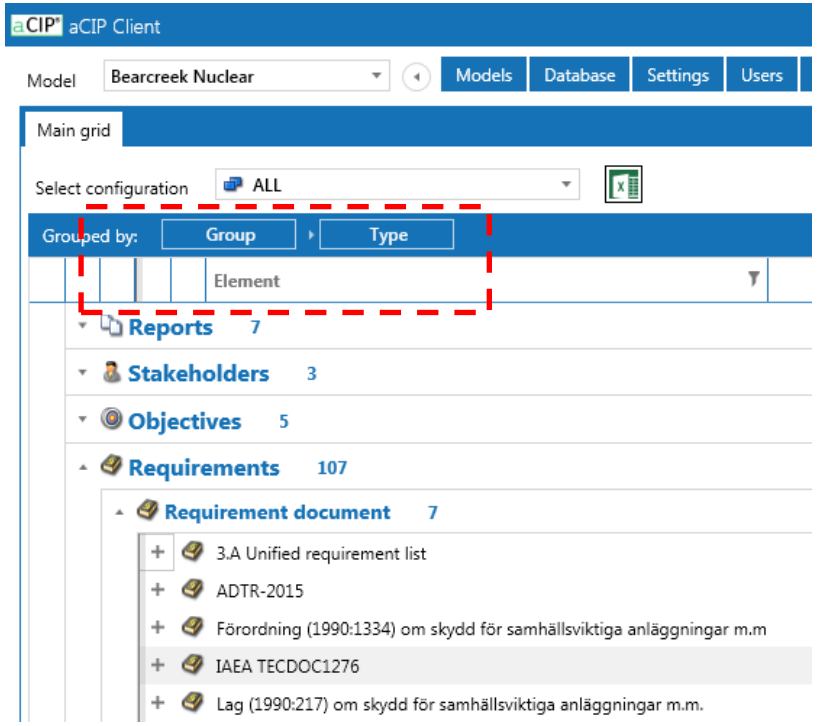
RelationTypes | ElementRelationMatrix | ConfigParameters | FieldAlternativeLists | **FieldAlternativeListEntries** | TopGridColumns | TopGridTypes | LowerGrid

Step 4.3

Define configuration – Columns in the main view

- Select data columns to be shown
- Give them a friendly name
- Define sorting and grouping



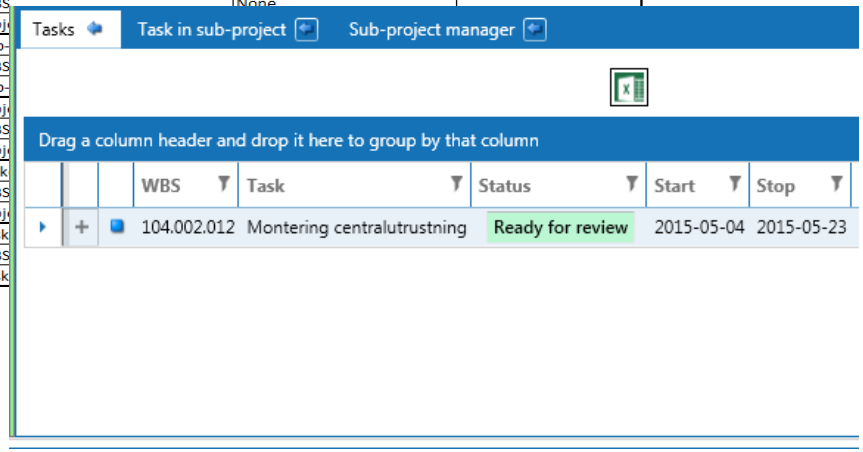


Step 4.4

Define configuration – Columns in relation views

- Define data columns to be shown for each relation type
- Give them a friendly name
- Define sorting and grouping

Inc	RelationType	EndPoint	SortOrder	GroupOrder	DB_Column	FriendlyName	FieldAlternativeList	DateTimeFormatString
136	HasTasks	Target	1	0	CxxString02	WBS	None	
137	HasTasks	Target	2	0	Name	Task	None	
138	HasTasks	Target	3	0	CxxBigInt01	Status	TaskState	
139	HasTasks	Target	4	0	CxxDateTime01	Start	None	yyyy-mm-dd
140	HasTasks	Target	5	0	CxxDateTime02	Stop	None	yyyy-mm-dd
141	HasTasks	Source	1	0	CxxString02	WBS	None	
142	HasTasks	Source	2	0	Name	Sub-project	None	
143	HasSubTasks	Target	1	0	CxxString02	WBS	None	
144	HasSubTasks	Target	2	0	Name	Sub-task	None	
145	HasSubTasks	Source	1	0	CxxString02	WBS	None	
146	HasSubTasks	Source	2	0	Name	Task	None	
147	ProjectManager	Target	1	0	Name	Project manager	None	
148	ProjectManager	Source	1	0	CxxString02	WBS	None	
149	ProjectManager	Source	2	0	Name	Proj		
150	Subprojectmanager	Target	1	0	Name	Sub-		
151	Subprojectmanager	Source	1	0	CxxString02	WBS		
152	Subprojectmanager	Source	2	0	Name	Sub-		
153	ProjectOwner	Target	1	0	Name	Proj		
154	ProjectOwner	Source	1	0	CxxString02	WBS		
155	ProjectOwner	Source	2	0	Name	Proj		
156	ProjectStakeholders	Target	1	0	Name	Stak		
157	ProjectStakeholders	Source	1	0	CxxString02	WBS		
158	ProjectStakeholders	Source	2	0	Name	Proj		
159	TaskResponsible	Target	1	0	Name	Task		
160	TaskResponsible	Source	1	0	CxxString02	WBS		
161	TaskResponsible	Source	2	0	Name	Task		



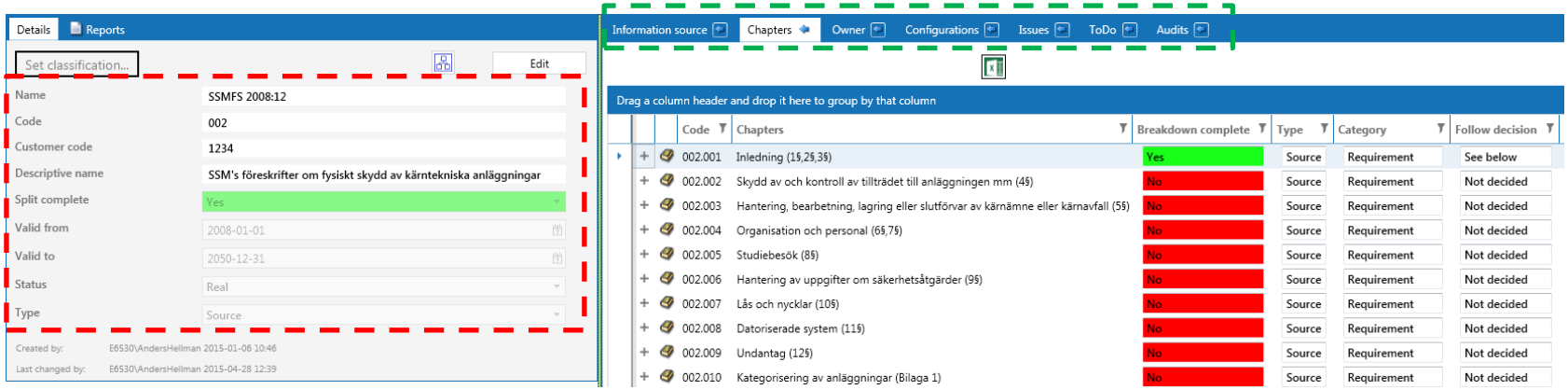
Step 4.5

Define configuration – Fields and relation tabs in detail views

- Define data columns to be shown for each element type
- Select which relations to be shown for each element type
- Define formatting and validation
- Define sorting

Inc	ElementType	Category	SortOrder	DB_Column	RelationType	EndPoint	FriendlyName	IsReadOnly	FieldAlternativeList	IsMultiLineText	MaxHeight	DTFormatString	StrMin	StrMax	IntMin	IntMax
45	RequirementDocument	DataField		Name			Name	FALSE		FALSE			1	50		
46	RequirementDocument	DataField	2	CxxString02			Code	FALSE		FALSE						
47	RequirementDocument	DataField	3	CxxString03			Customer code	FALSE		FALSE						
48	RequirementDocument	DataField	4	CxxString04			Descriptive name	FALSE		FALSE						
49	RequirementDocument	DataField	5	SplitComplete			Split complete	FALSE	SplitComplete							
50	RequirementDocument	DataField	6	CxxDateTime01			Valid from	FALSE				yyyy-mm-dd				
51	RequirementDocument	DataField	7	CxxDateTime02			Valid to	FALSE				yyyy-mm-dd				
52	RequirementDocument	DataField	8	CxxBigInt01			Status	FALSE	RequirementStatus							
53	RequirementDocument	DataField	9	CxxBigInt02			Type	FALSE	RequirementType							
54	RequirementDocument	RelationColumn	1		InformationSource	Target	Information source									
55	RequirementDocument	RelationColumn	2		RequirementDocumentSplitsTo	Target	Chapters									
56	RequirementDocument	RelationColumn	3		StakeholderOwnsRequirement	Source	Owner									
57	RequirementDocument	RelationColumn	4		RelevantInConfigurations	Target	Configurations									
58	RequirementDocument	RelationColumn	5		HasIssues	Target	Issues									
59	RequirementDocument	RelationColumn	6		ToDoRelatesTo	Source	ToDo									
60	RequirementDocument	RelationColumn	7		PartOfAuditSessions	Target	Audits									

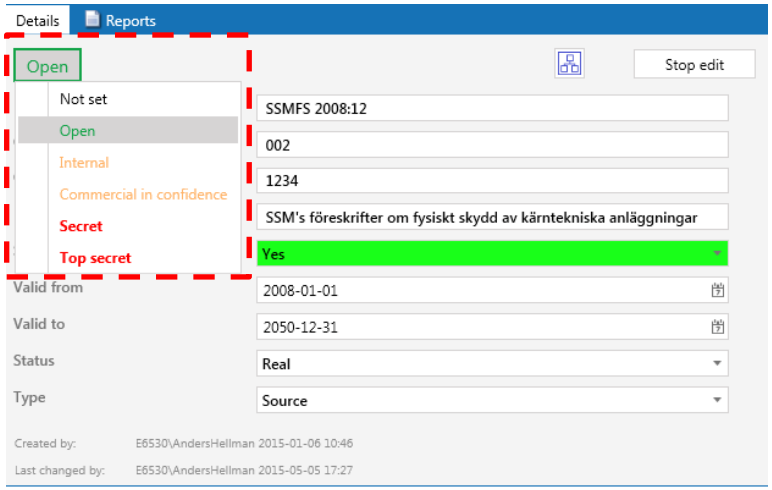
RequirementType
RequirementCategory
RequirementFollowDecision
IssueType
IssueState
DocumentCategory

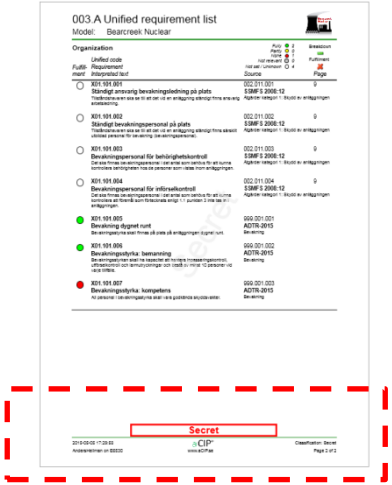


Step 4.6

Define configuration – Classification levels

Inc	Name	Level	Watermark	ShowStamp	StampIsBold	ColorA	ColorR	ColorG	ColorB	SampleColor
1	Open	0		FALSE	FALSE	255	19	164	72	
2	Internal	1		FALSE	FALSE	255	255	180	105	
3	Commercial in confidence	2	Commercial in confidence	FALSE	FALSE	255	255	180	105	
4	Secret	3	Secret	TRUE	TRUE	255	255	0	0	
5	Top secret	4	Top secret	TRUE	TRUE	255	255	0	0	
6										
7										
8										
9										

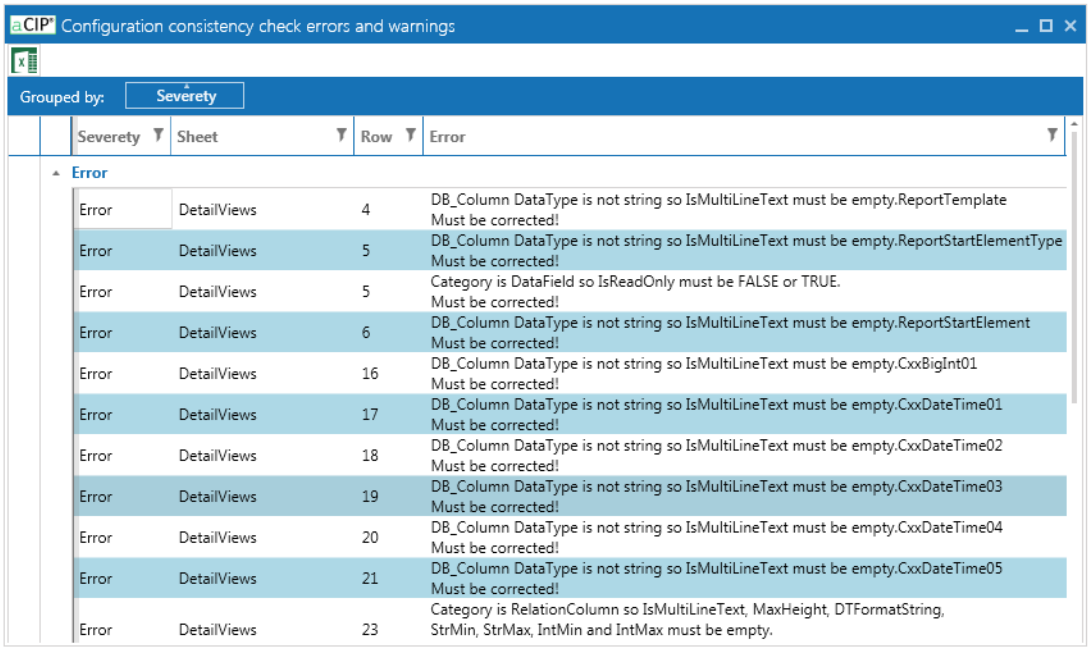




Step 4.7

Compile the configuration

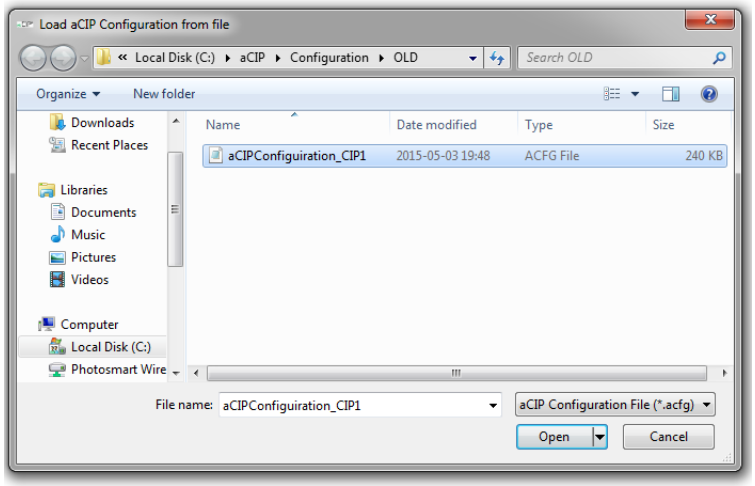
- Compilation is done in the client aCIP Developer (if you don't have it you can mail the configuration to Adentia for compilation)
- Extensive error check
- Designed for version management of the configuration
- If errors are found a detailed step-by-step error report is created

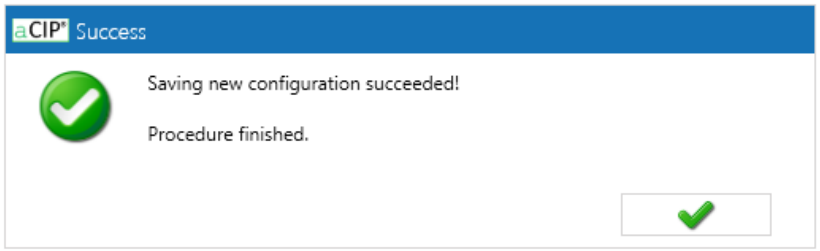


Step 4.8

Load the configuration

- Start aCIP client as Admin
- Load the configuration file



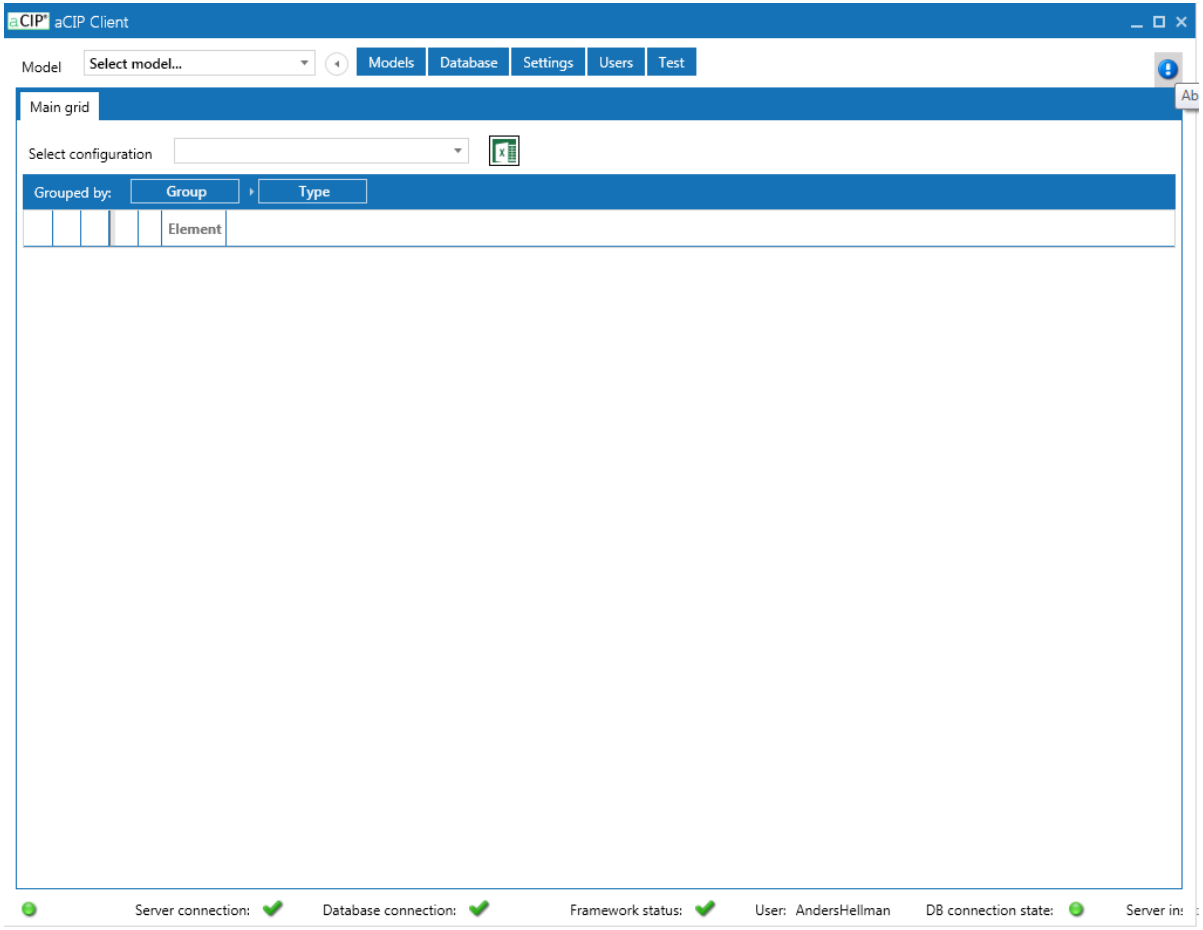


Saving new configuration to aCIP database.

Please wait!
Saving Classifications...
Successfully saved 5 Classifications!
Saving FieldAlternatives...
Successfully saved 94 FieldAlternatives!
Saving TopGridColumns...
Successfully saved 3 TopGridColumns!
Saving LowerGridColumns...
Successfully saved 178 LowerGridColumns!
Saving DetailsViews...
Successfully saved 460 DetailsViews!
Saving Parameters...
Successfully saved 8 Parameters!

Step 5.1

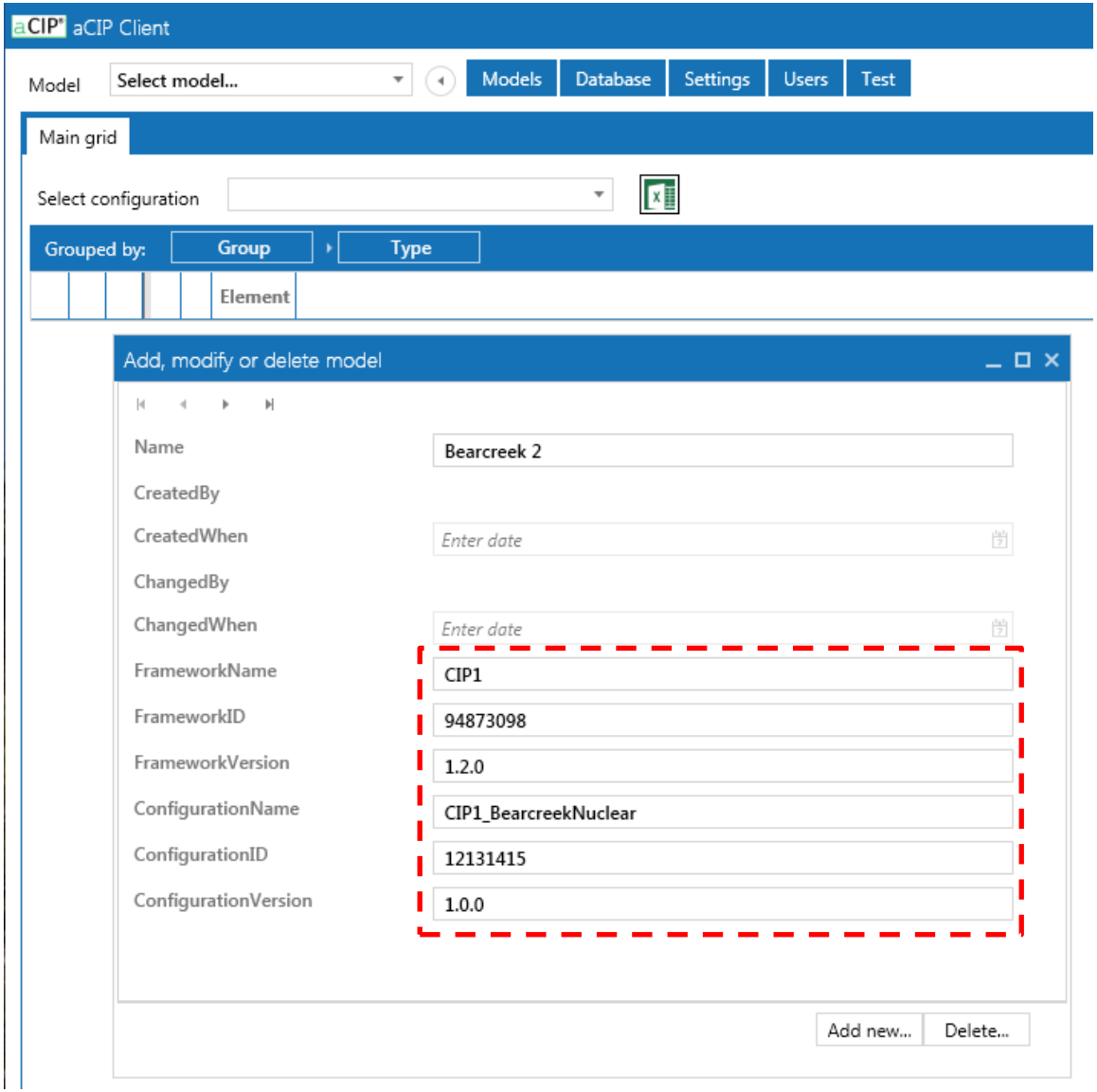
Start the **aCIP®** client



Step 5.2

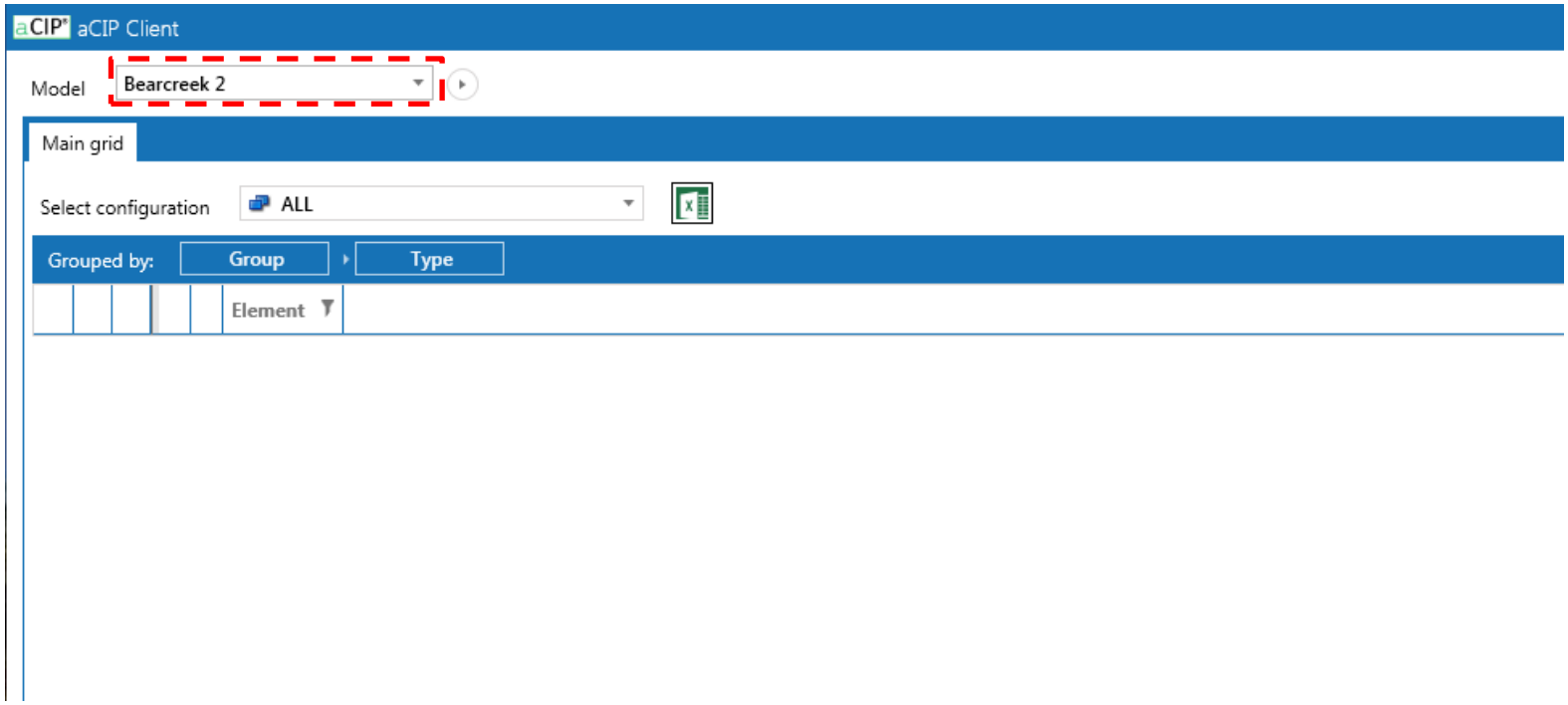
Create a new model

- Lock the model to framework and configuration



Step 5.3

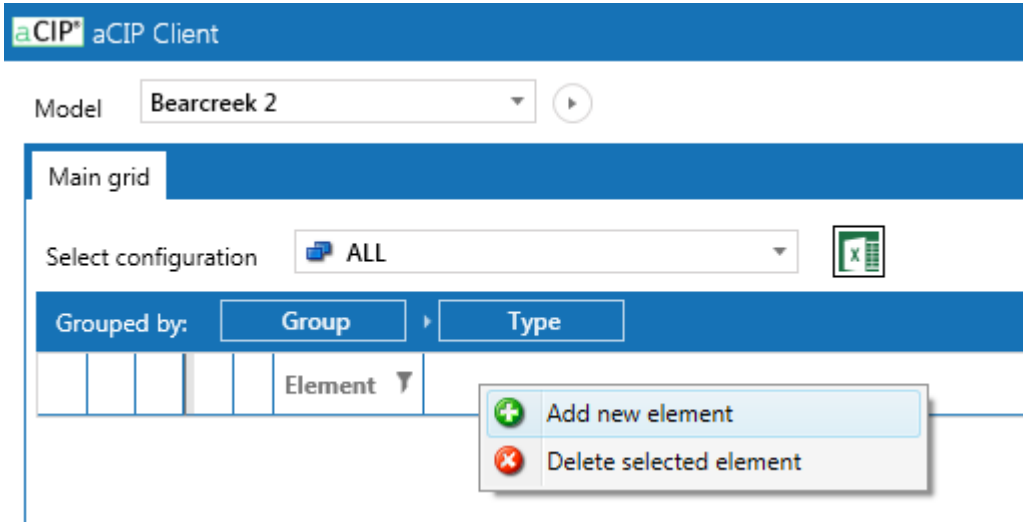
Select your new model



Step 5.5

Create your first elements

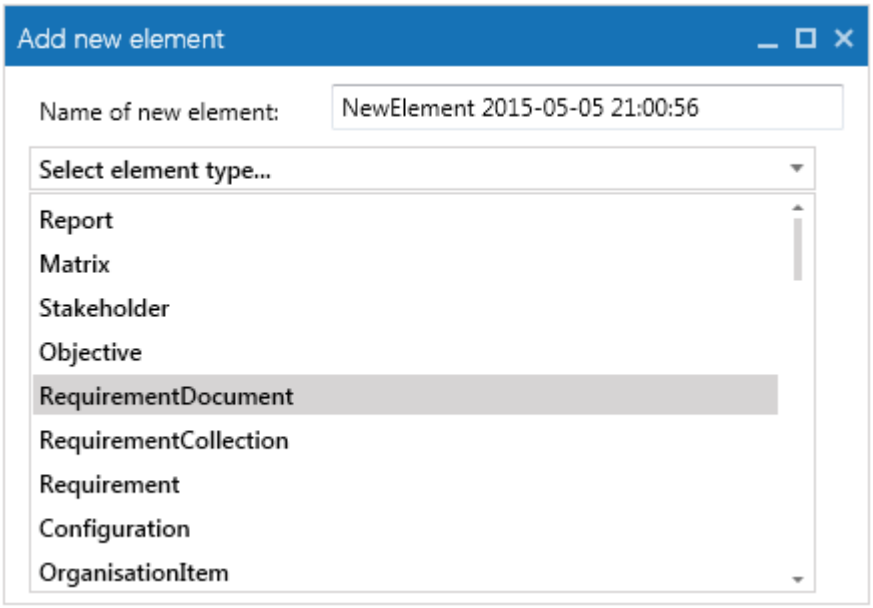
- Right-click and select ”Add new element”

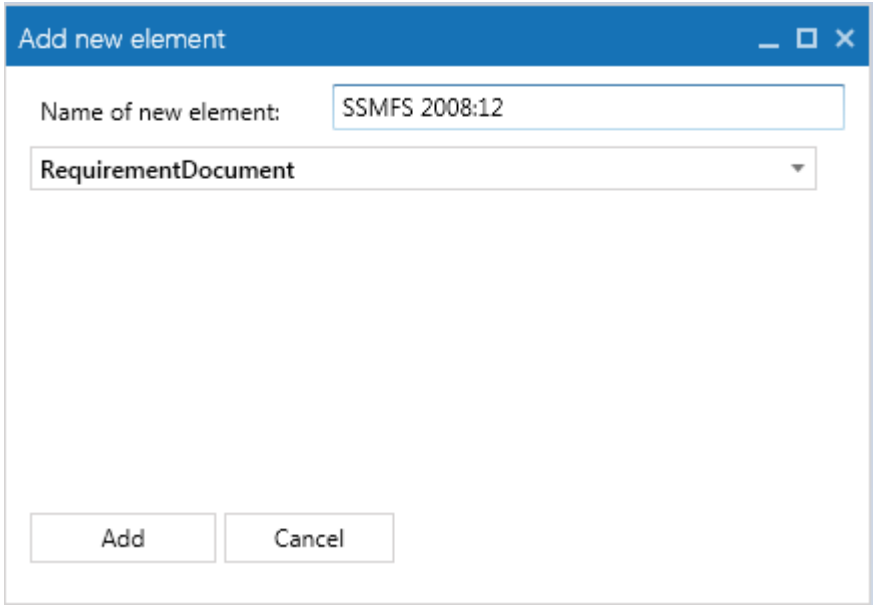


Step 5.5

Create your first elements

- Select element type and give it a name

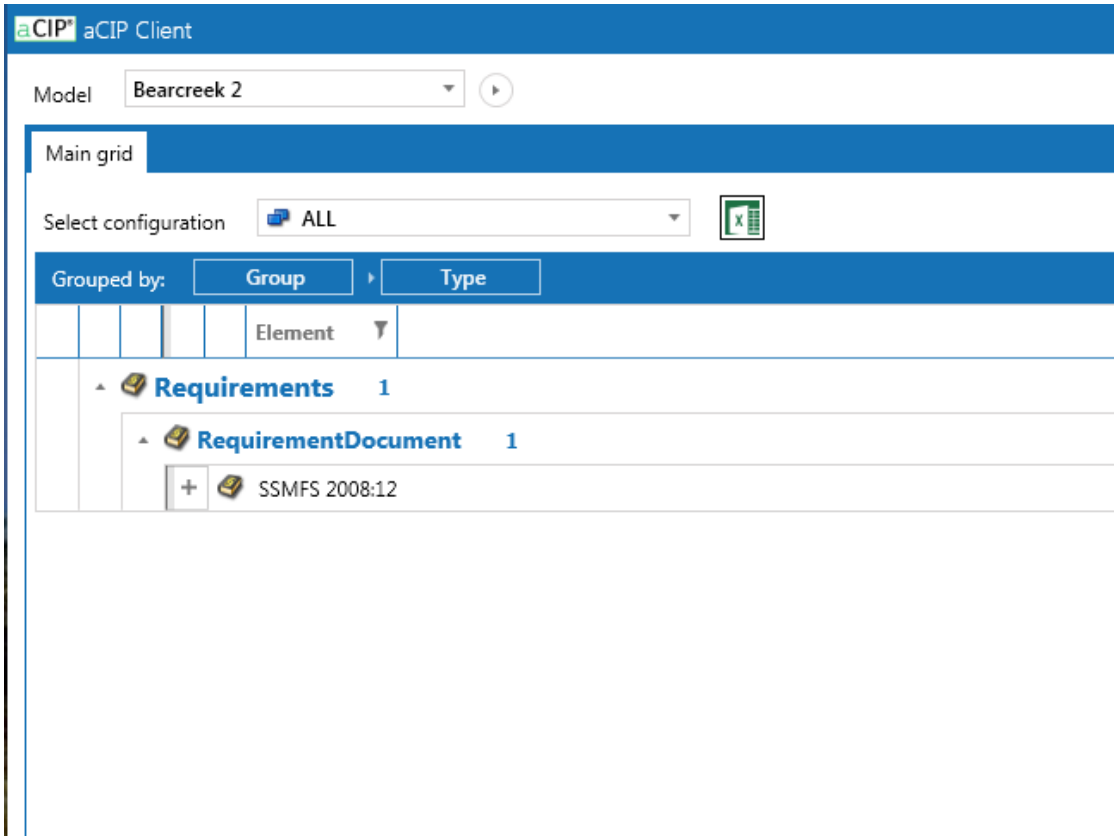




Step 5.5

Create your first elements

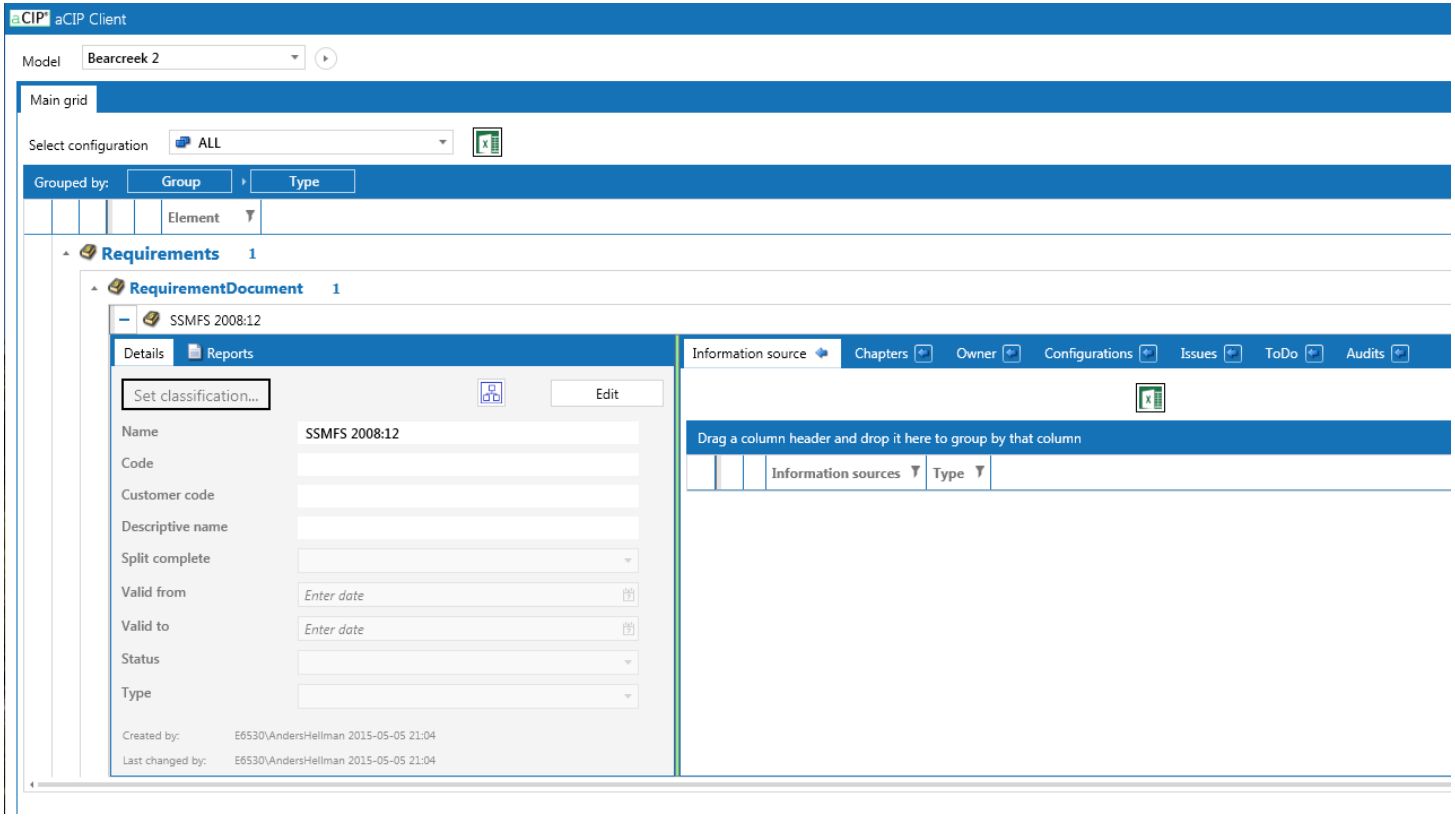
- Congratulations, you now have a model with an element. Click on the +-button...



Step 5.5

Create your first elements

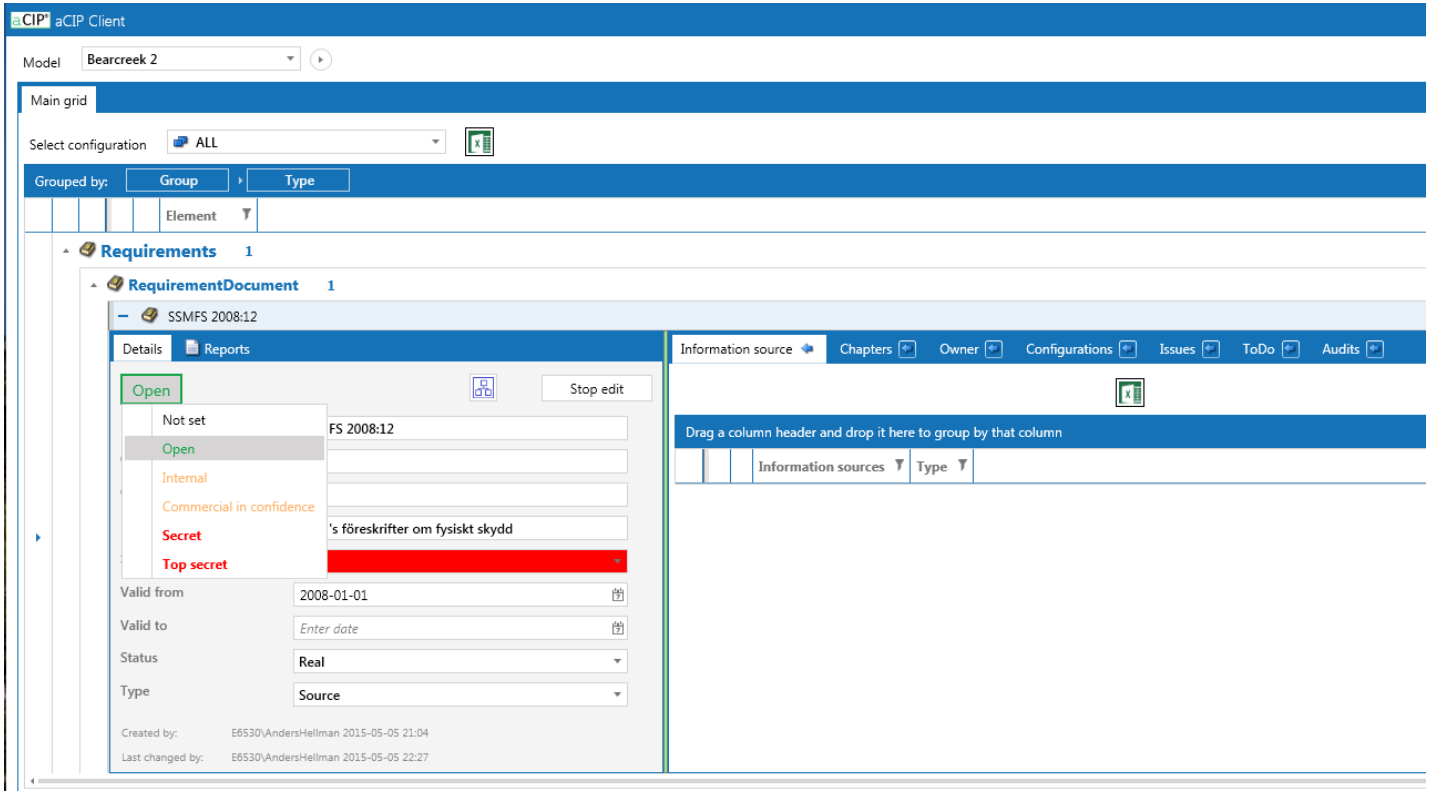
- You are now in the details view. Here you can enter and edit the elements data content and create relations to other elements.



Step 5.5

Create your first elements

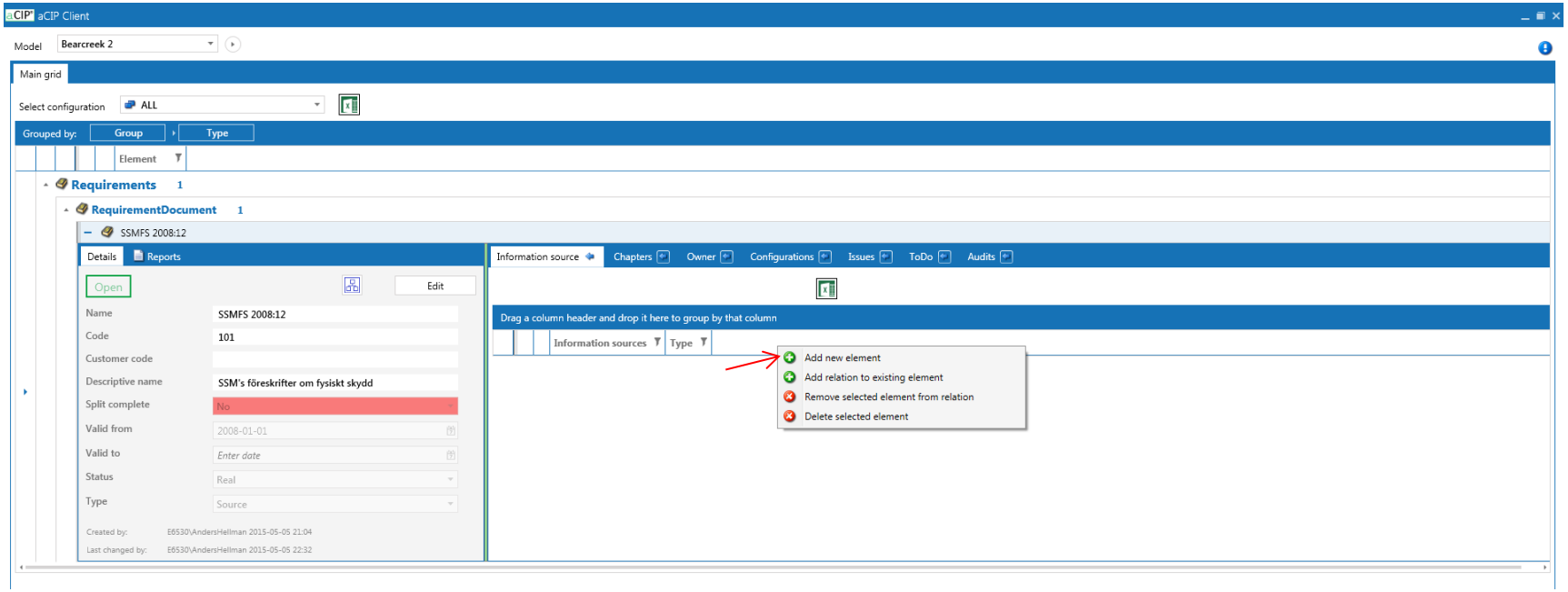
- Click Edit to start editing. The elements data content is now made read-only to all other users until you press Stop edit.



Step 5.6

Create your first relations

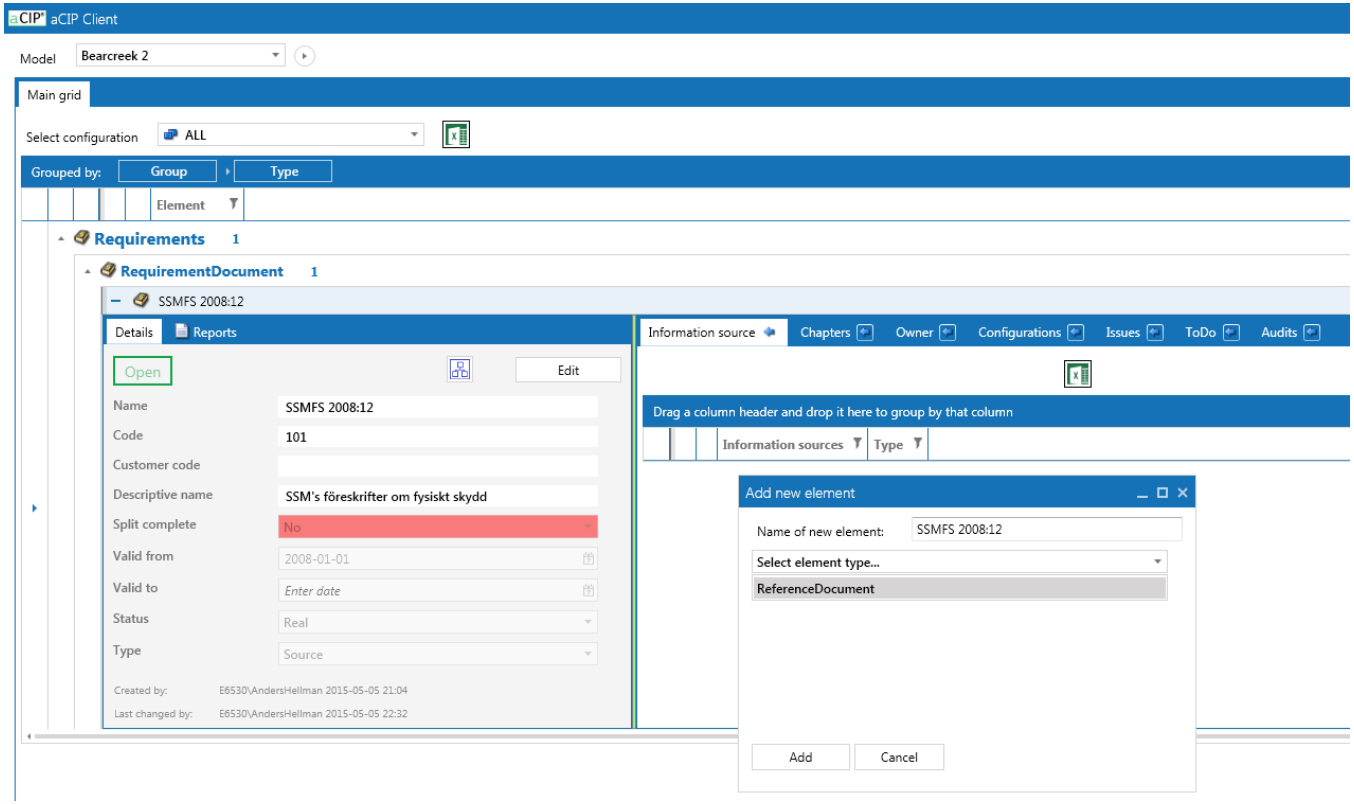
- There is a tab for each relation type that is allowed for the selected element type according to framework and configuration.
- Right-click a relation tab and select ”Add new element”.



Step 5.6

Create your first relations

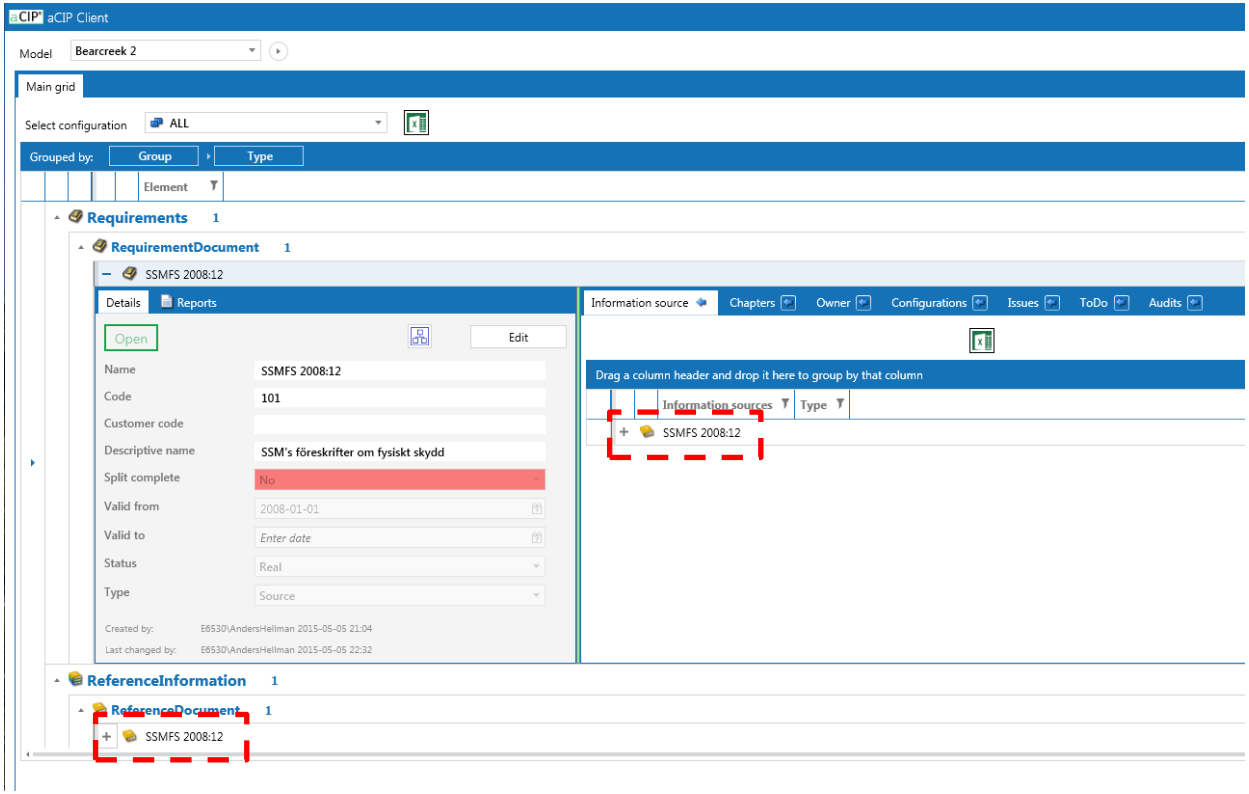
- You can now create a new element will automatically related to the selected element to the left.
- You can select between all element types that is allowed in this relation according to the framework, in this case only ”Reference document”.



Step 5.6

Create your first relations

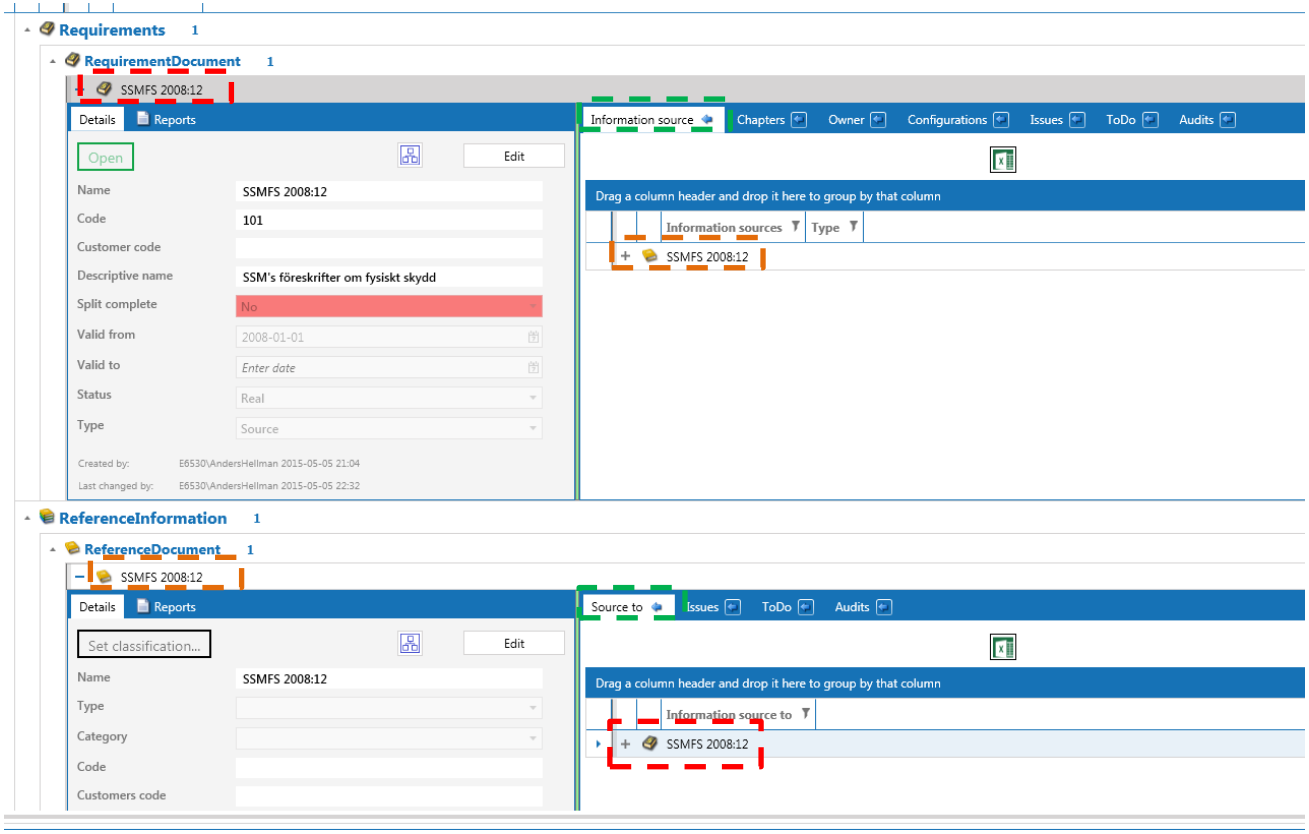
- You have now created a new element of type “Reference document” and tied it to the existing element “SSMFS 2008:12” with the relation ”Information source”.
- Note that the new element is immediately also shown under its own type header in the main view.



Step 5.6

Create you first relations

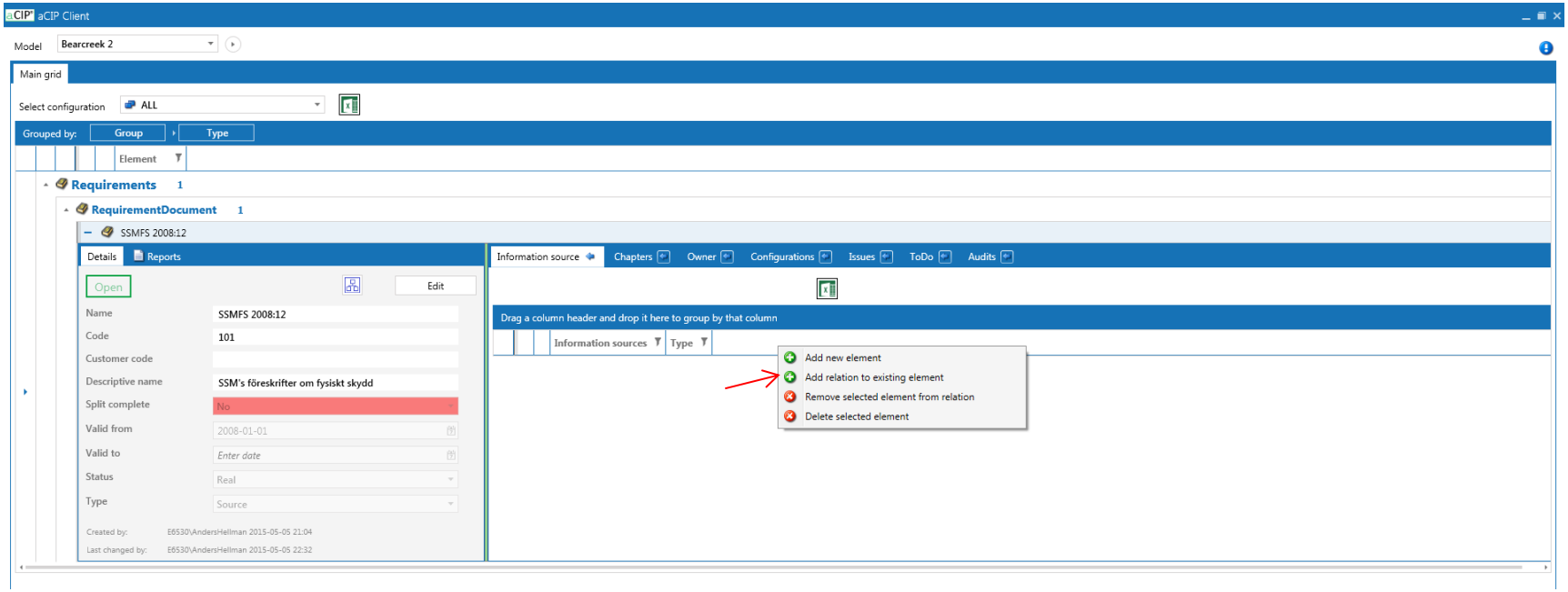
- Now open the detail view also for the newly added element and you can see that everything is connected!
- The two pairs of identical elements are off course the same element but shown in different contexts.
- The relation ”Information source” is called ”Source to” in the opposite direction.



Step 5.6

Create your first relations

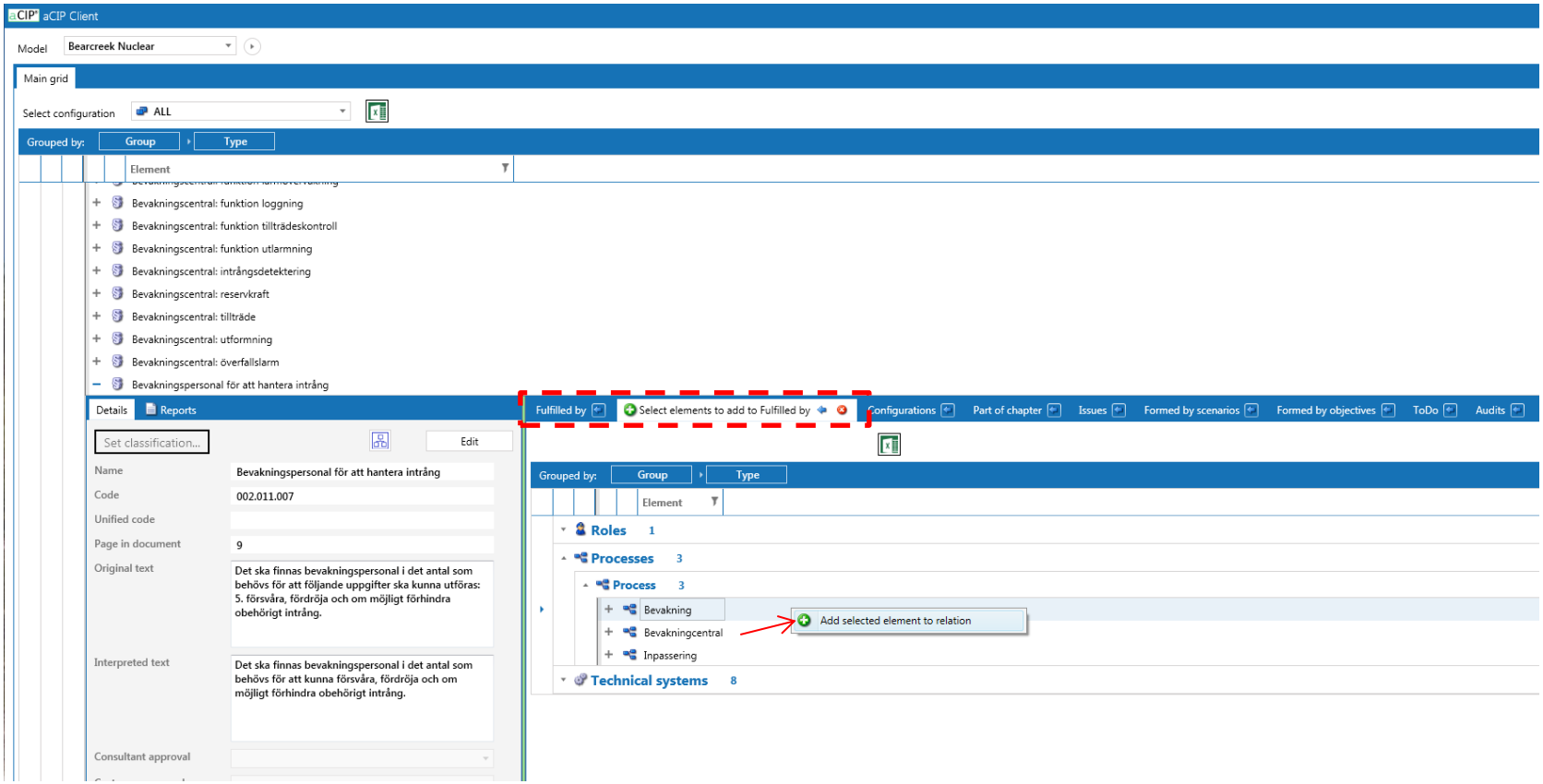
- Instead of creating a new element directly in a relation you can create only a relation to an existing element.
- Select ”Add new relation to existing element”



Step 5.6

Create your first relations

- A temporary tab is opened showing all existing elements that is allowed to be added to that very relation.
- Select on or more elements, right-click and select ”Add selected elements to relation”



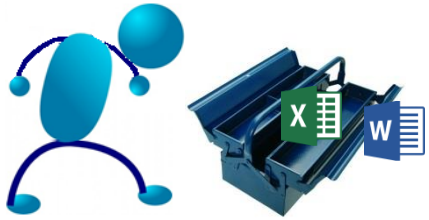
You've just built your first aCIP®-model

And what was the point with that?

Let’s look back a while

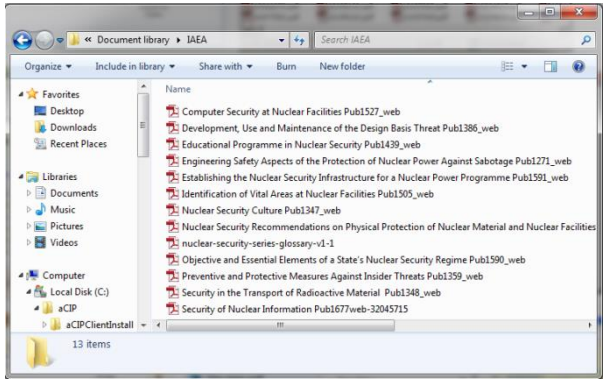
Who need first-aid training this month?

Please get me a requirement fulfillment report for the entry control. Take it easy, I won’t need until before lunch.

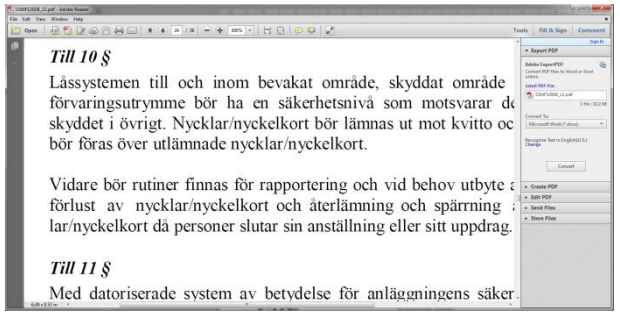


The visitor management computer in the main entrance has gone nuts. Who can help me?

The camera behind pier 3 is broken. Why is it there? Can I remove it?



John will be absent for three months. Who has the competence to replace him?



Till 10 §

Låssystemen till och inom bevakat område, skyddat område förvaringsutrymme bör ha en säkerhetsnivå som motsvarar de skyddet i övrigt. Nycklar/nyckelkort bör lämnas ut mot kvitto oc bör föras över utlämnade nycklar/nyckelkort.

Vidare bör rutiner finnas för rapportering och vid behov utbyte förlust av nycklar/nyckelkort och återlämning och spärrning lar/nyckelkort då personer slutar sin anställning eller sitt uppdrag.

Till 11 §

Med datoriserade system av betydelse för anläggningens säker

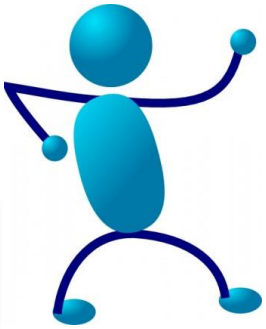
aCIP®

www.aCIP.se

Or not...

Who need first-aid training this month?

Please get me a requirement fulfillment report for the entry control. Take it easy, I won't need until before lunch.

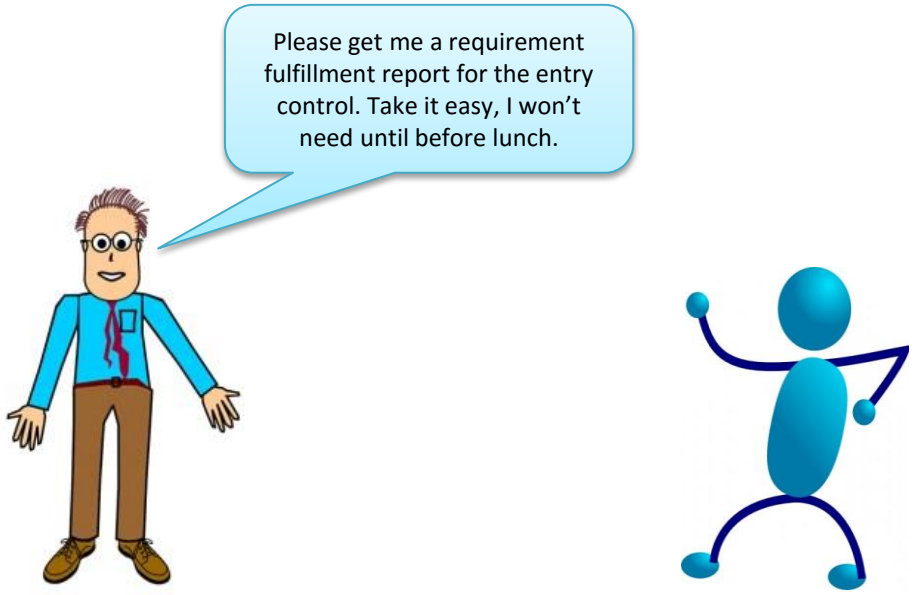


The visitor management computer in the main entrance has gone nuts. Who can help me?

The camera behind pier 3 is broken. Why is it there? Can I remove it?

John will be absent for three months. Who has the competence to replace him?

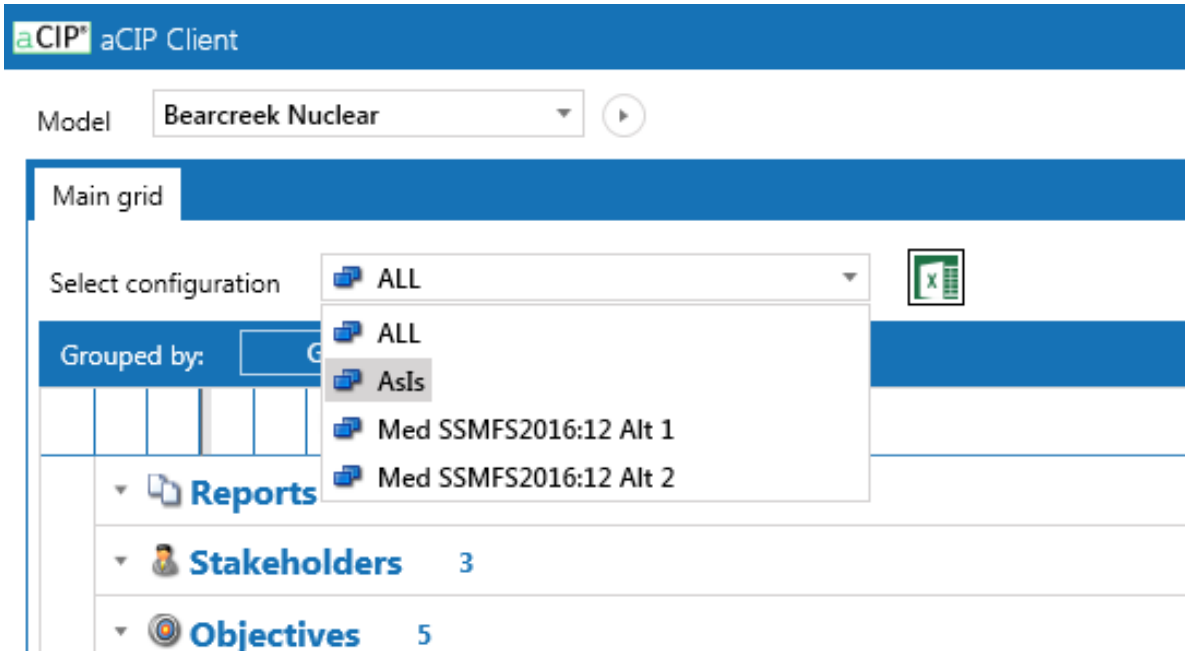
Example 1



Example 1

Requirement fulfillment report

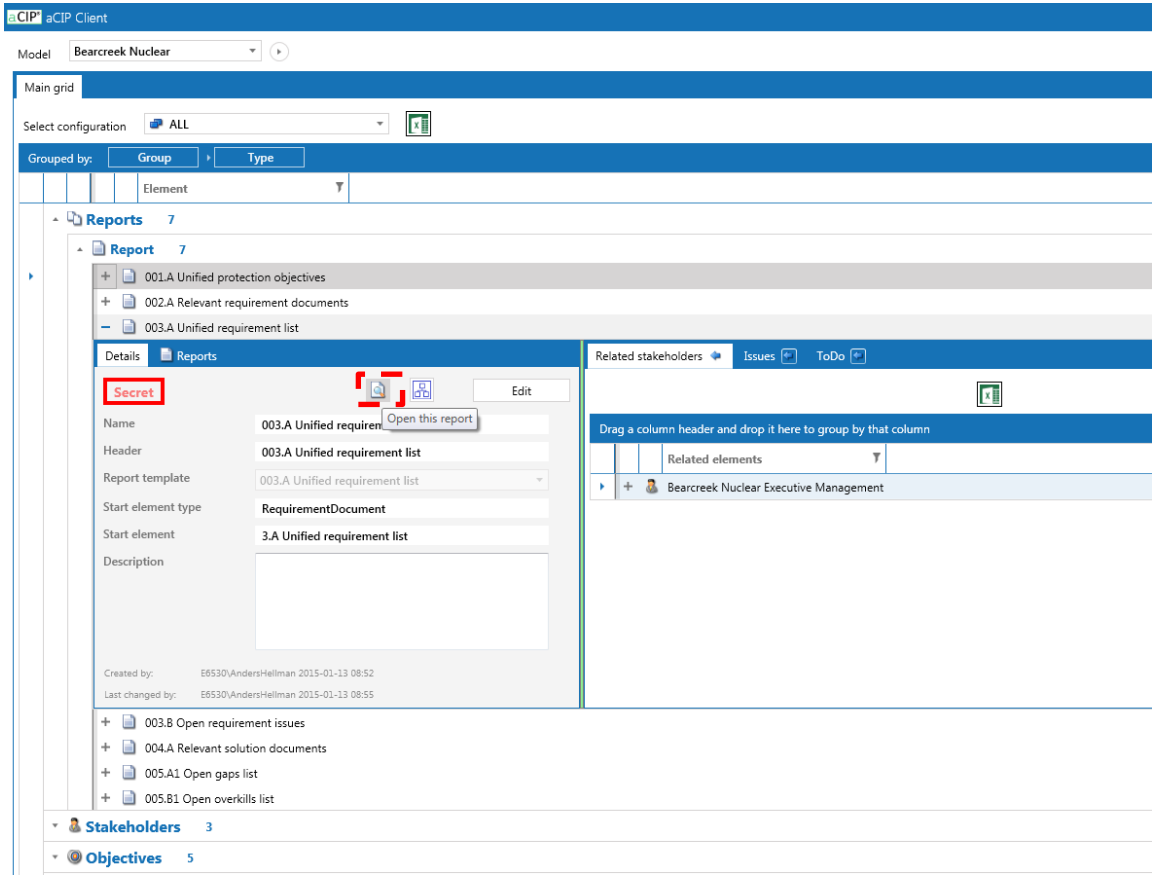
- Start **aCIP®** and select your model
- Select wanted ”Configuration” (don’t mix up this configuration with the configuration of the data model). The elements in a model can be tied to one or more ”Configurations” for example to keep existing (AsIs) requirements apart from future ones.



Example 1

Requirement fulfillment report

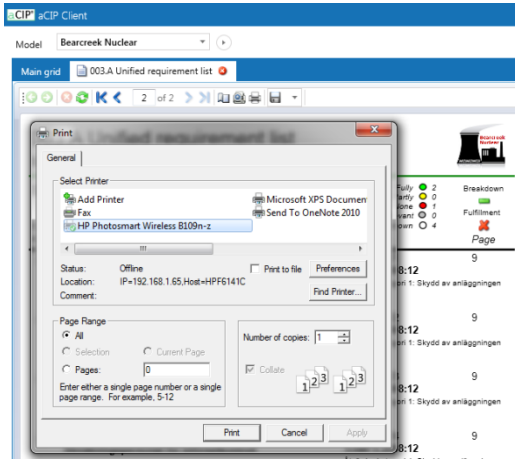
- Lock up the report ”Unified requirement list” (standard report in the fraMework CIP1)
- Open it’s detail view and click the “Open this report” button.

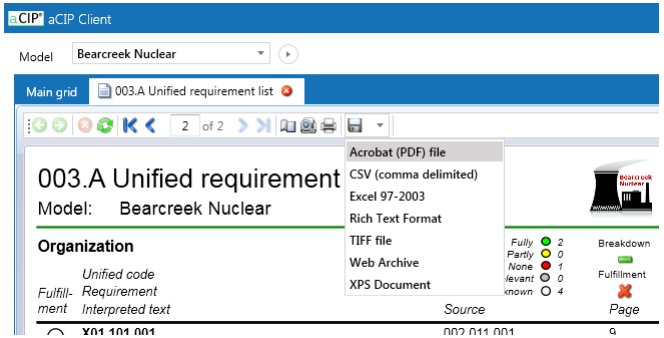


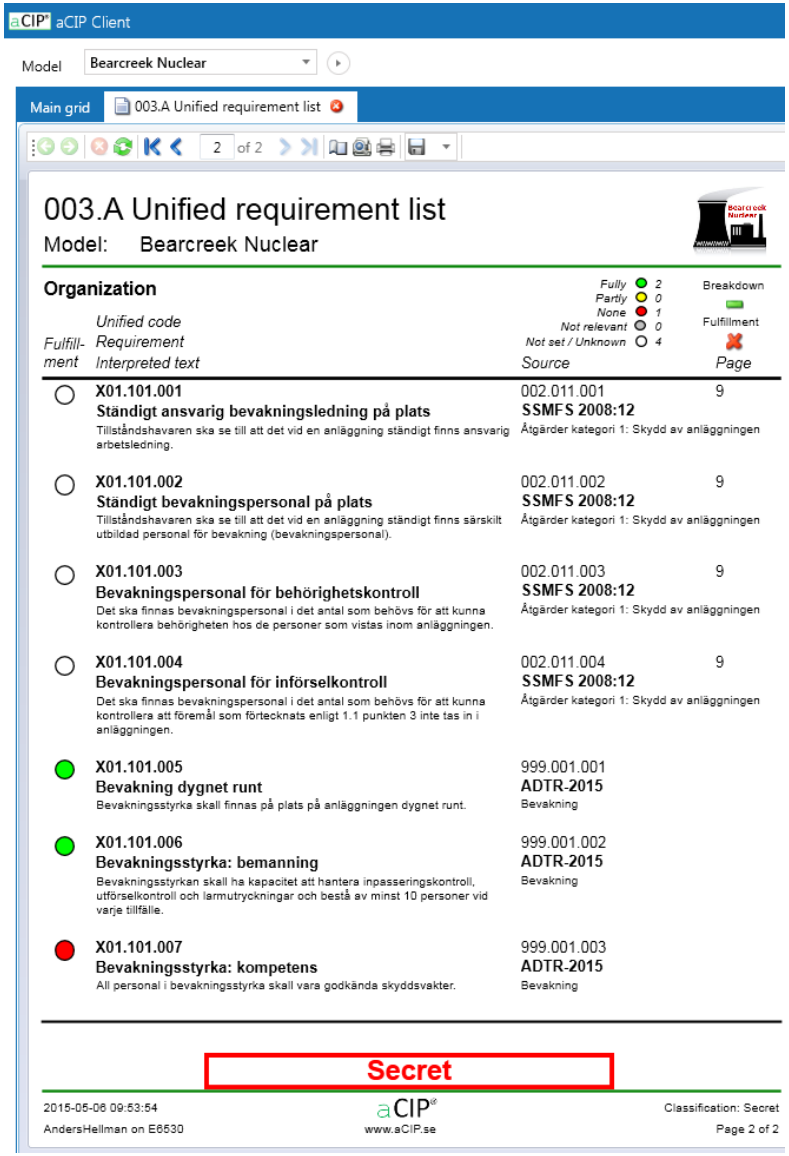
Example 1

Requirement fulfillment report

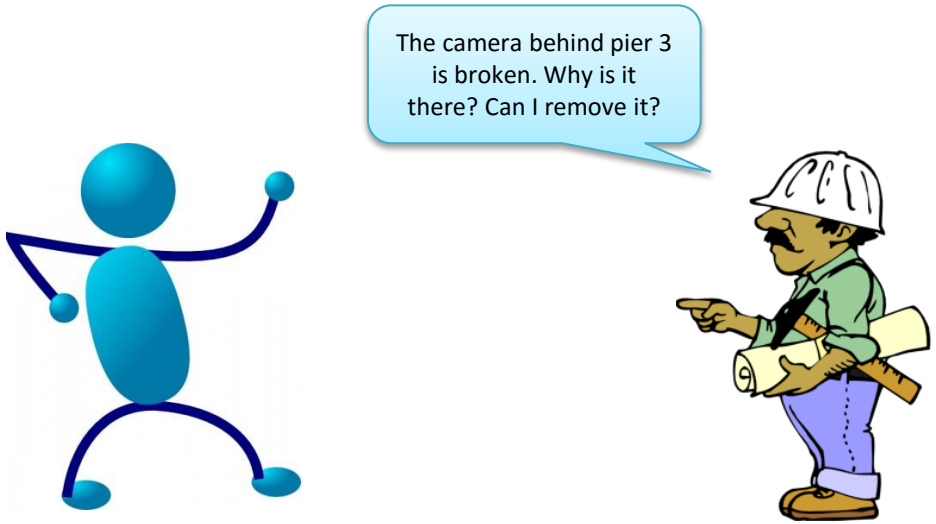
- The report is now opened as a new tab in the main view.
- The report is dynamic and reflects all the time the actual content in the database (sometimes manual refresh is required).
- The report can be saved in various formats and printed.







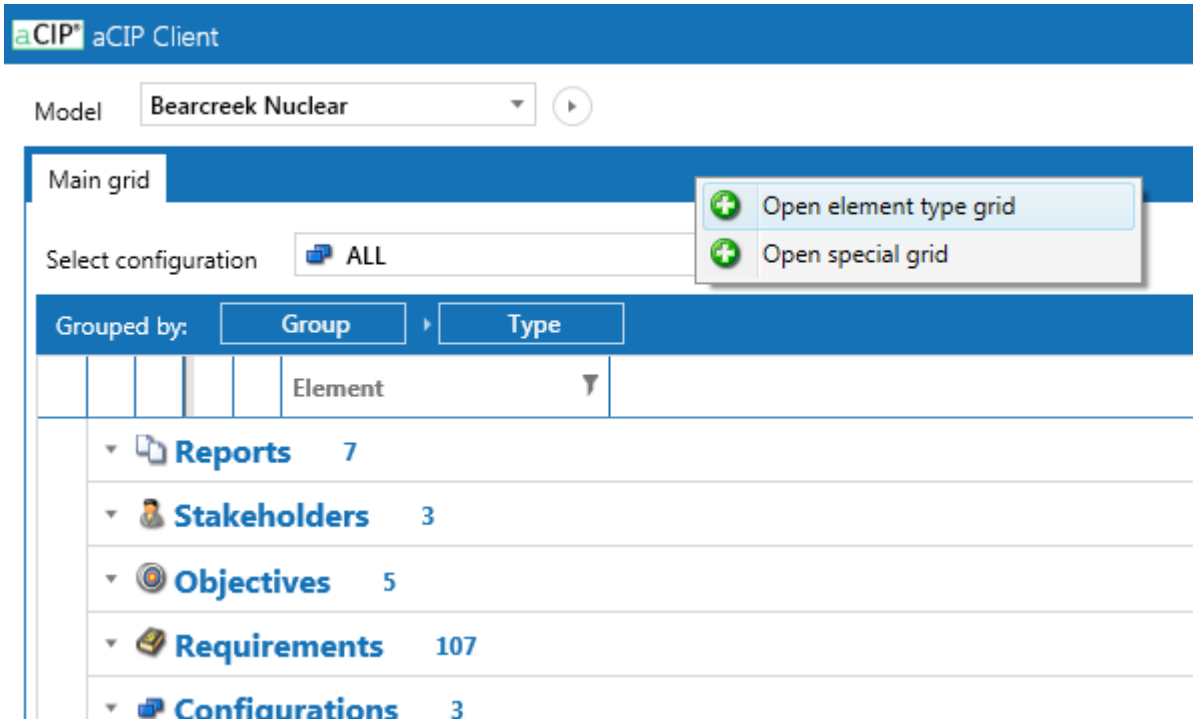
Example 2



Example 2

Backwards requirement tracing

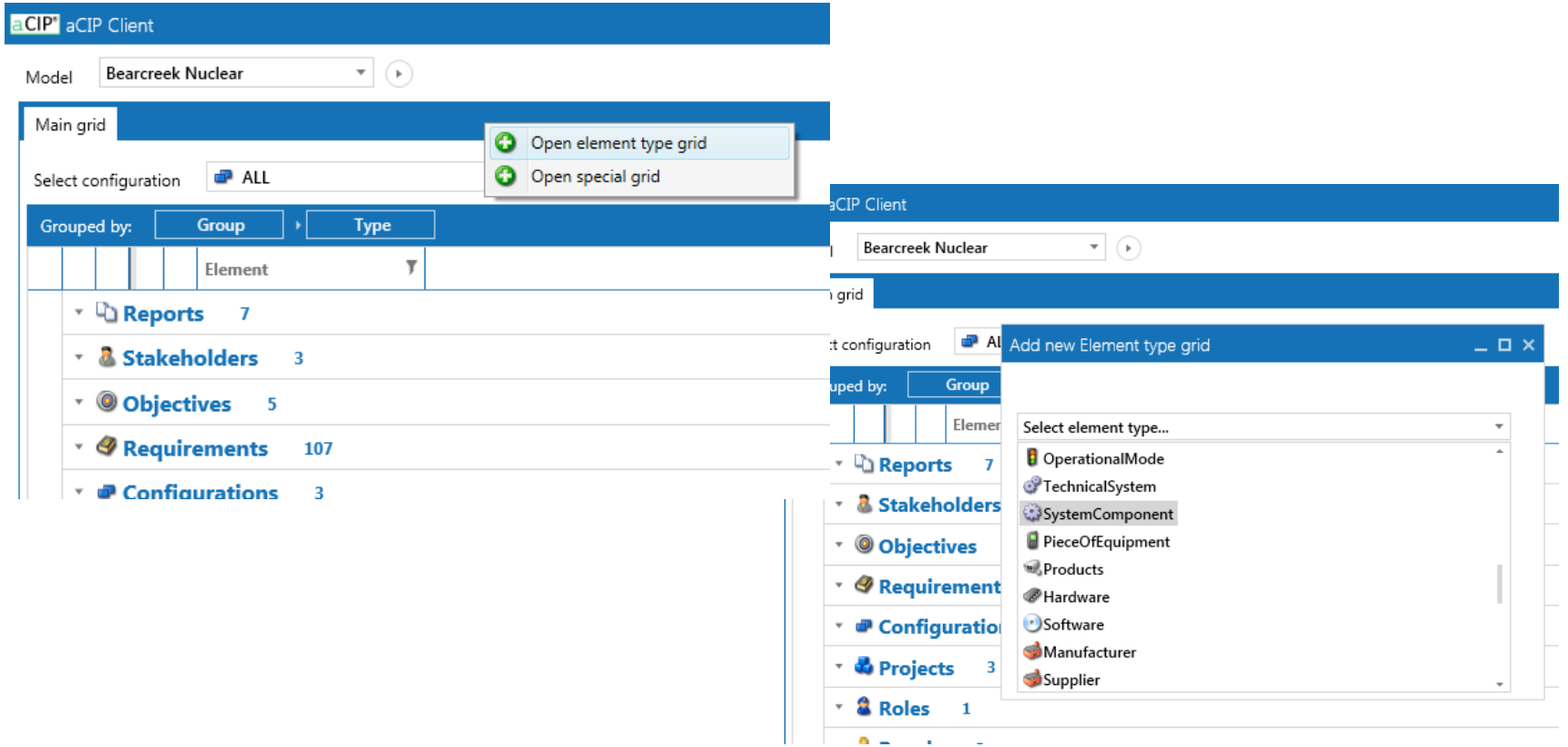
- Right-click in the frame of the main vies and select ”Open element type grid”



Example 2

Backwards requirement tracing

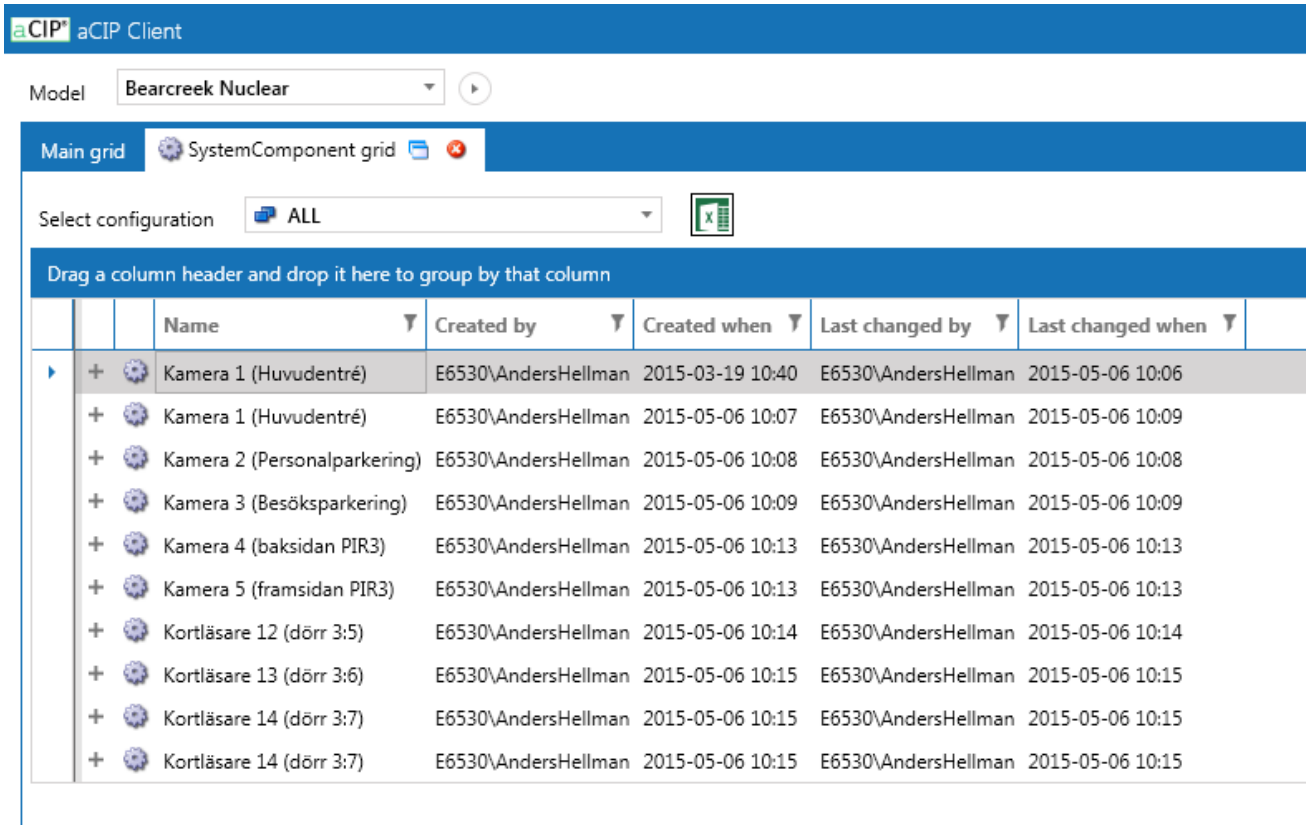
- Select ”SystemComponent”



Example 2

Backwards requirement tracing

- You have now opened a view with only one element type
- That makes it easier and faster to search and filter out what you are looking for
- Additionally all data columns for the very element type is shown here which is not possible in the main view

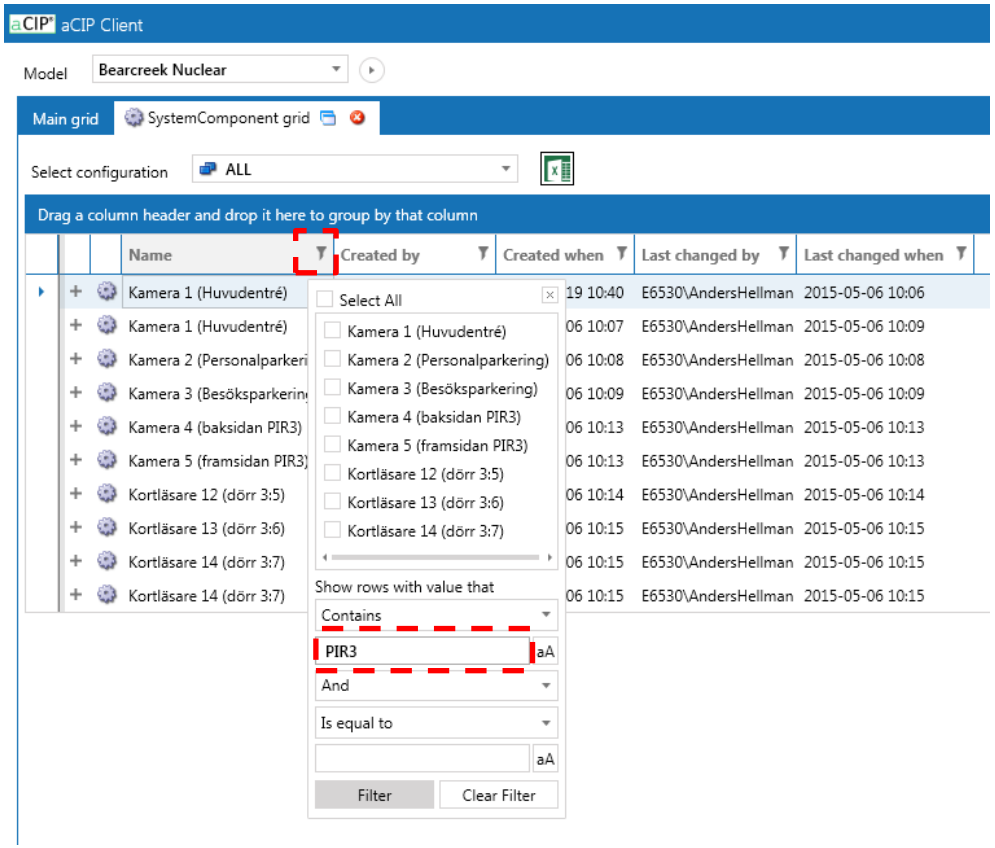


Name	Created by	Created when	Last changed by	Last changed when
Kamera 1 (Huvudentré)	E6530\AndersHellman	2015-03-19 10:40	E6530\AndersHellman	2015-05-06 10:06
Kamera 1 (Huvudentré)	E6530\AndersHellman	2015-05-06 10:07	E6530\AndersHellman	2015-05-06 10:09
Kamera 2 (Personalparkering)	E6530\AndersHellman	2015-05-06 10:08	E6530\AndersHellman	2015-05-06 10:08
Kamera 3 (Besöksparkering)	E6530\AndersHellman	2015-05-06 10:09	E6530\AndersHellman	2015-05-06 10:09
Kamera 4 (baksidan PIR3)	E6530\AndersHellman	2015-05-06 10:13	E6530\AndersHellman	2015-05-06 10:13
Kamera 5 (framsidan PIR3)	E6530\AndersHellman	2015-05-06 10:13	E6530\AndersHellman	2015-05-06 10:13
Kortläsare 12 (dörr 3:5)	E6530\AndersHellman	2015-05-06 10:14	E6530\AndersHellman	2015-05-06 10:14
Kortläsare 13 (dörr 3:6)	E6530\AndersHellman	2015-05-06 10:15	E6530\AndersHellman	2015-05-06 10:15
Kortläsare 14 (dörr 3:7)	E6530\AndersHellman	2015-05-06 10:15	E6530\AndersHellman	2015-05-06 10:15
Kortläsare 14 (dörr 3:7)	E6530\AndersHellman	2015-05-06 10:15	E6530\AndersHellman	2015-05-06 10:15

Example 2

Backwards requirement tracing

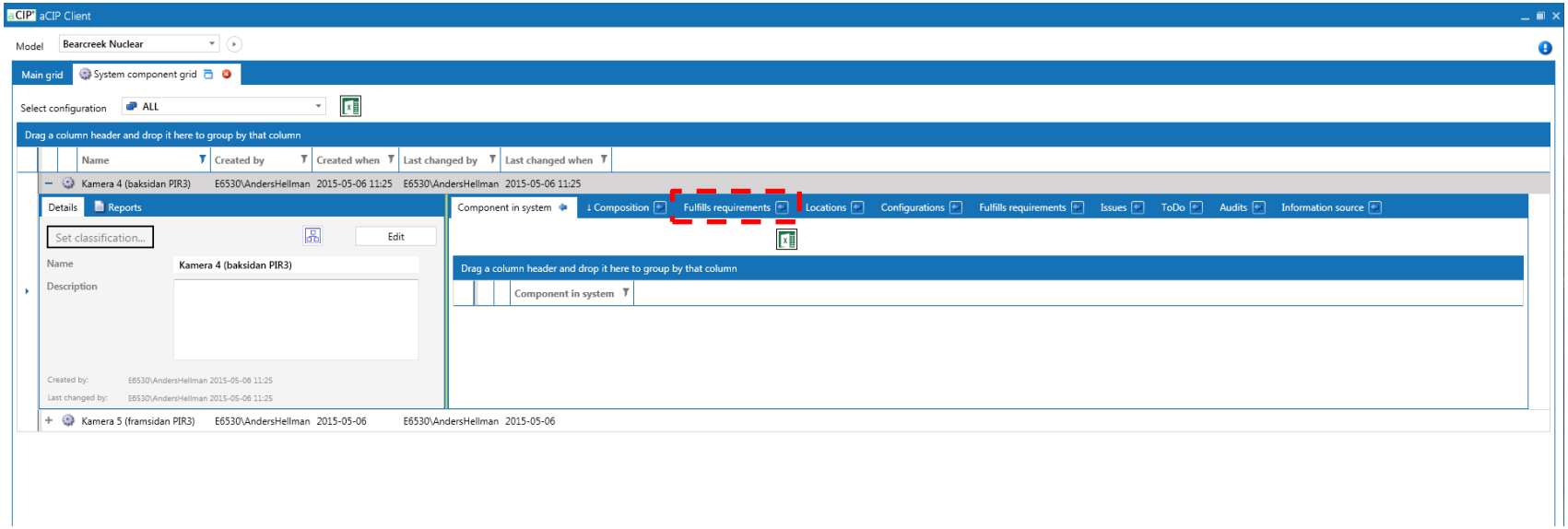
- Click the Filter button in the header for column ”Name”
- Define a suitable search and click Filter



Example 2

Backwards requirement tracing

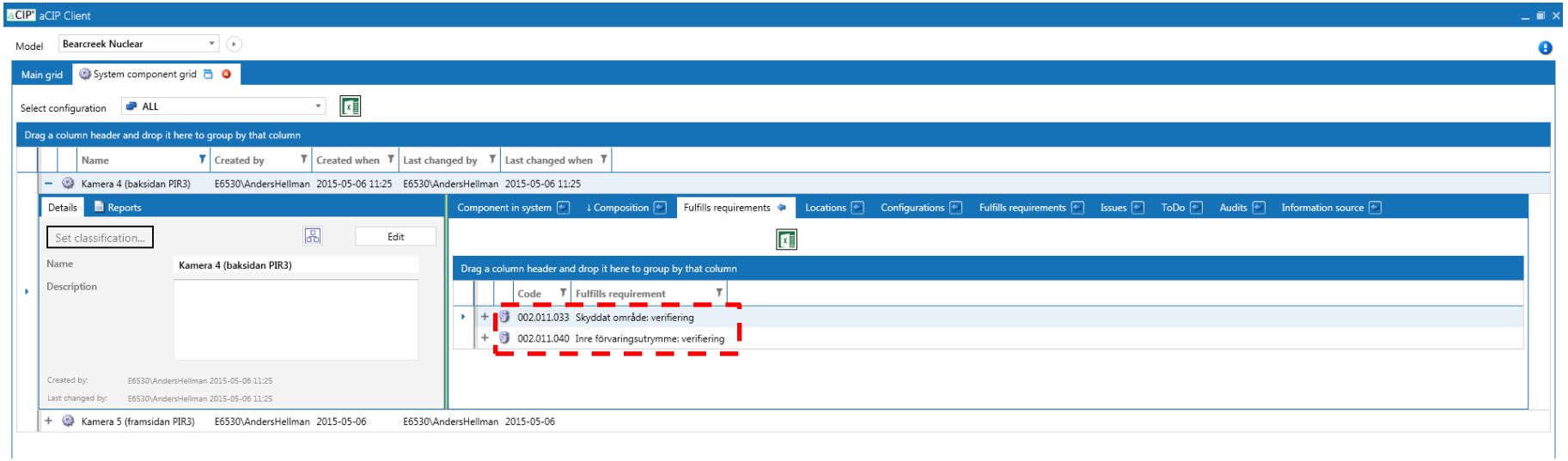
- You can now easily find the wanted camera
- Click ”+” to open its detail view
- Click the relation tab ”Fulfills requirements”



Example 2

Backwards requirement tracing

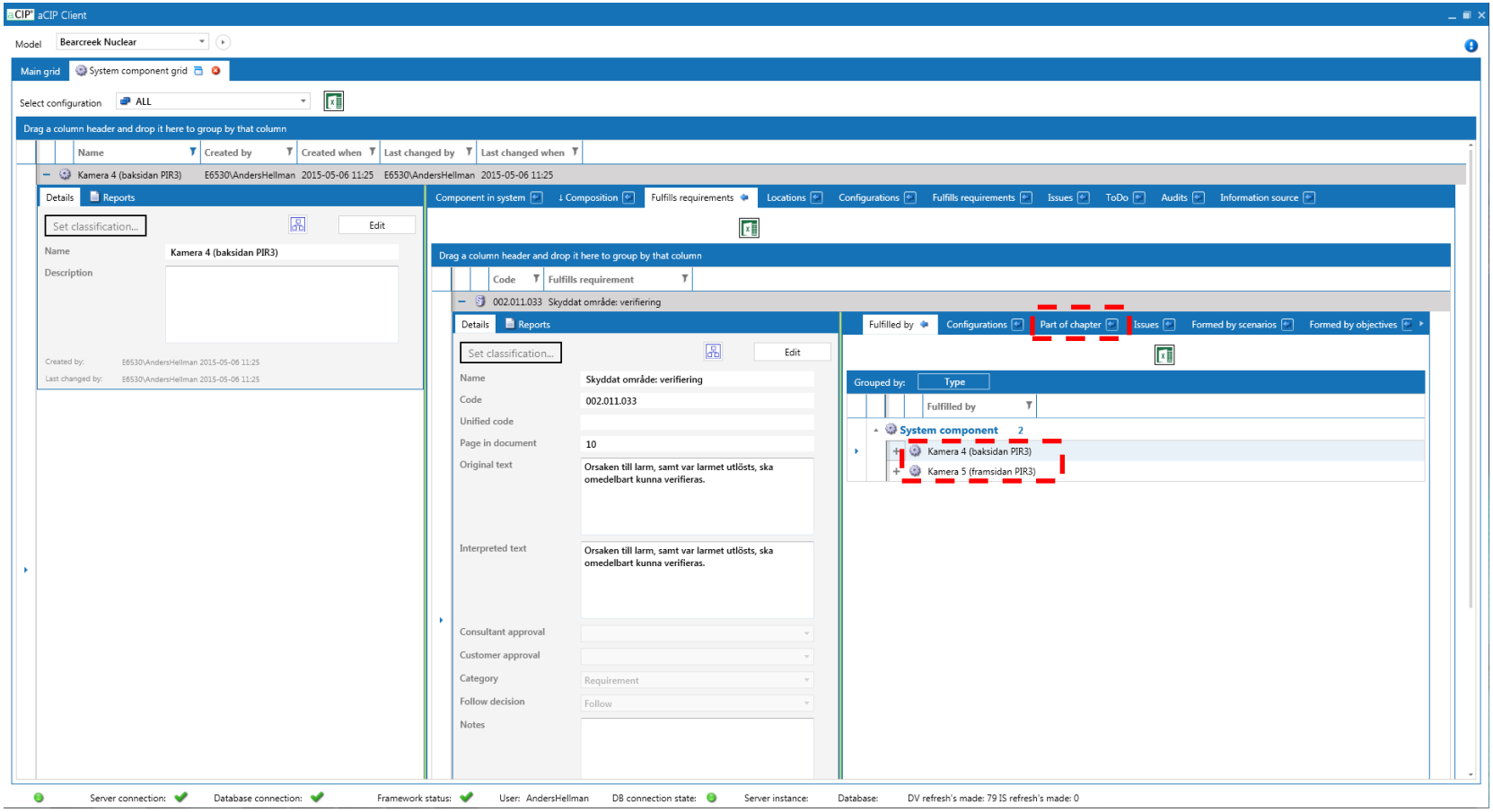
- You now see a list with all requirements that is the reason for this cameras existence
- Click ”+” to see the details view for one of the requirements



Example 2

Backwards requirement tracing

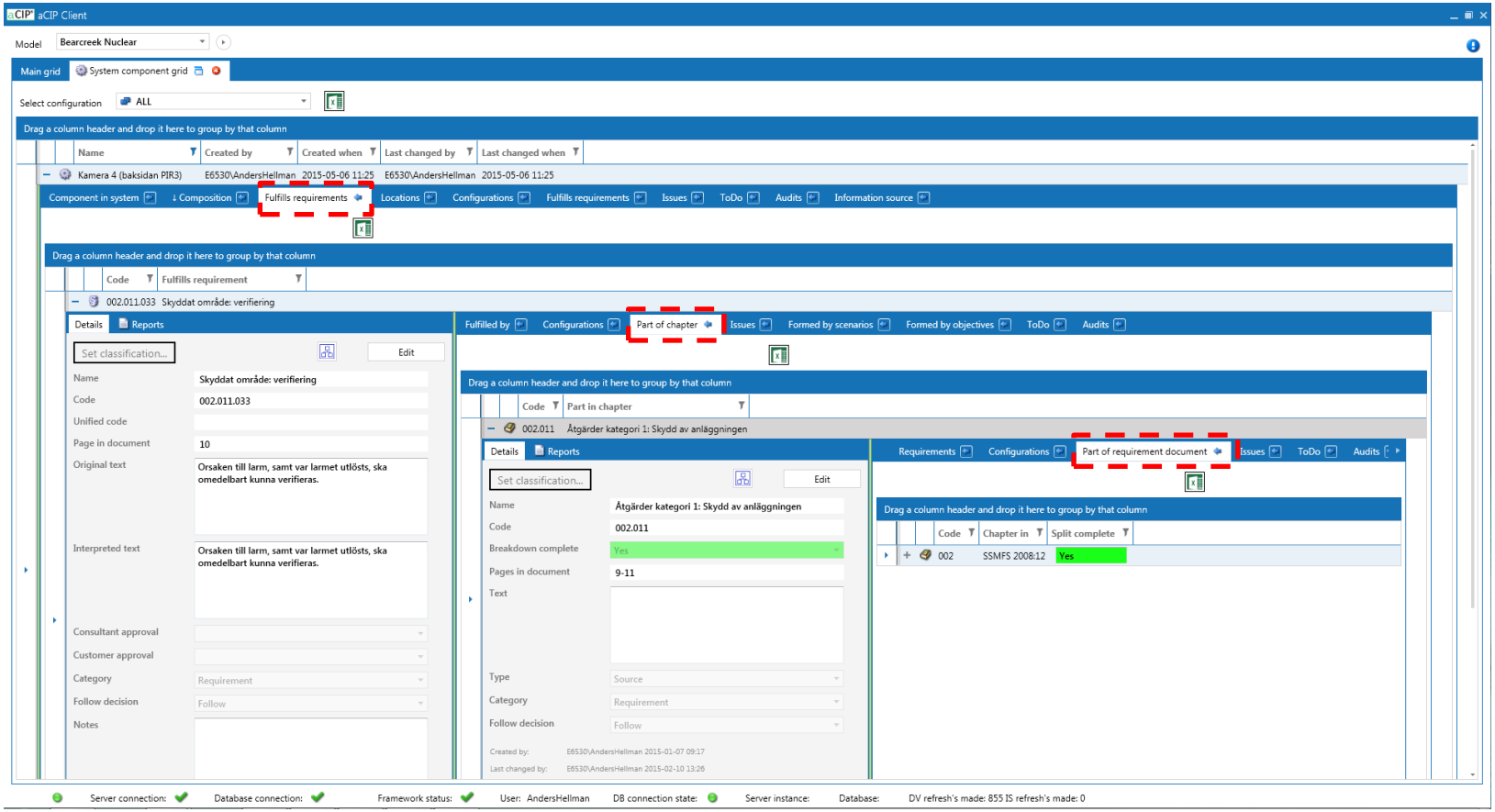
- Now the details view for camera 4 is open and you can see and edit all its data content and all its relations.
- For example you can see that also camera 5 is involved in the fulfillment of this requirement.
- Click the relation tab ”Part of chapter” and we trace our way to the original requirement document.



Example 2

Backwards requirement tracing

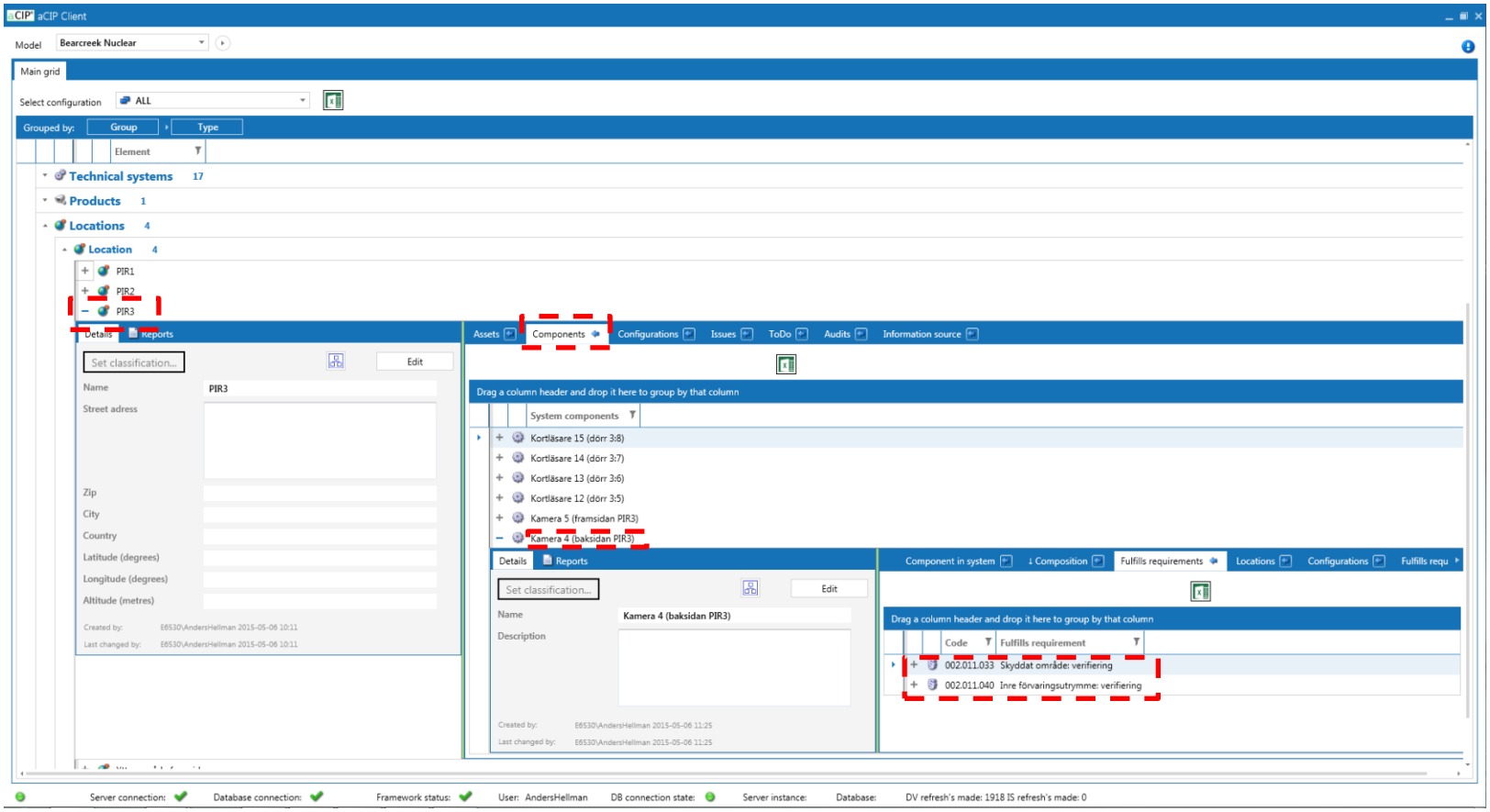
- Now the complete relation chain from camera 4 till the original requirement document is opened
- You now have access to the information you need to decide if camera 4 can be removed



Example 2

Backwards requirement tracing – alternative way to find the camera

- Maybe you don't have a clue what the camera is called, just that it's located at PIR3.
- Expand the group "Locations" in the main view and select "PIR3".
- Click the relation tab "Components" and all components at PIR3 are listed.



Enough with examples

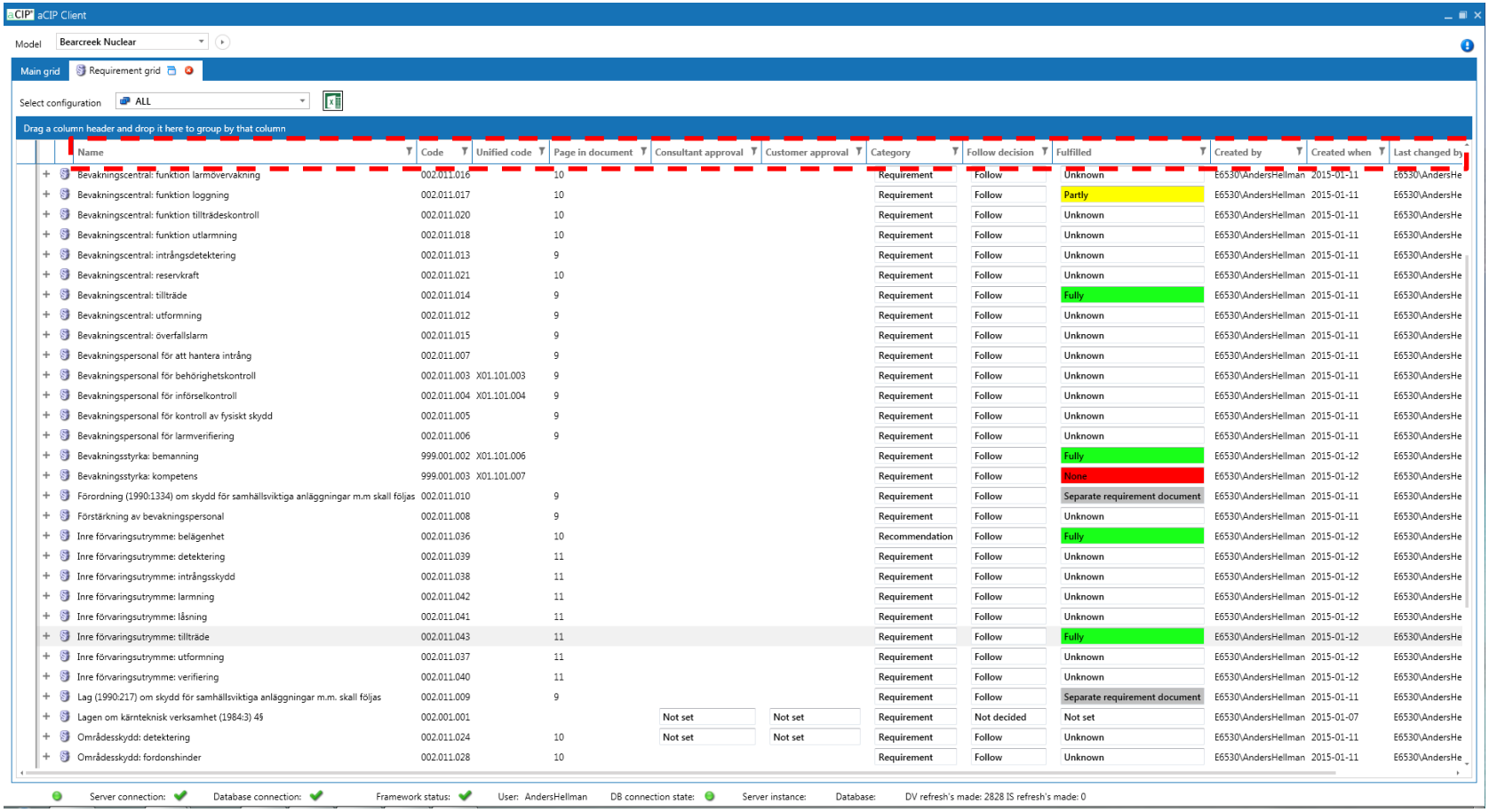
Maybe there will be more some other day

Some more details however for the interested ones...

Filtering, sorting and grouping of lists

In lists with many elements, assistance to find what you are looking for might be useful

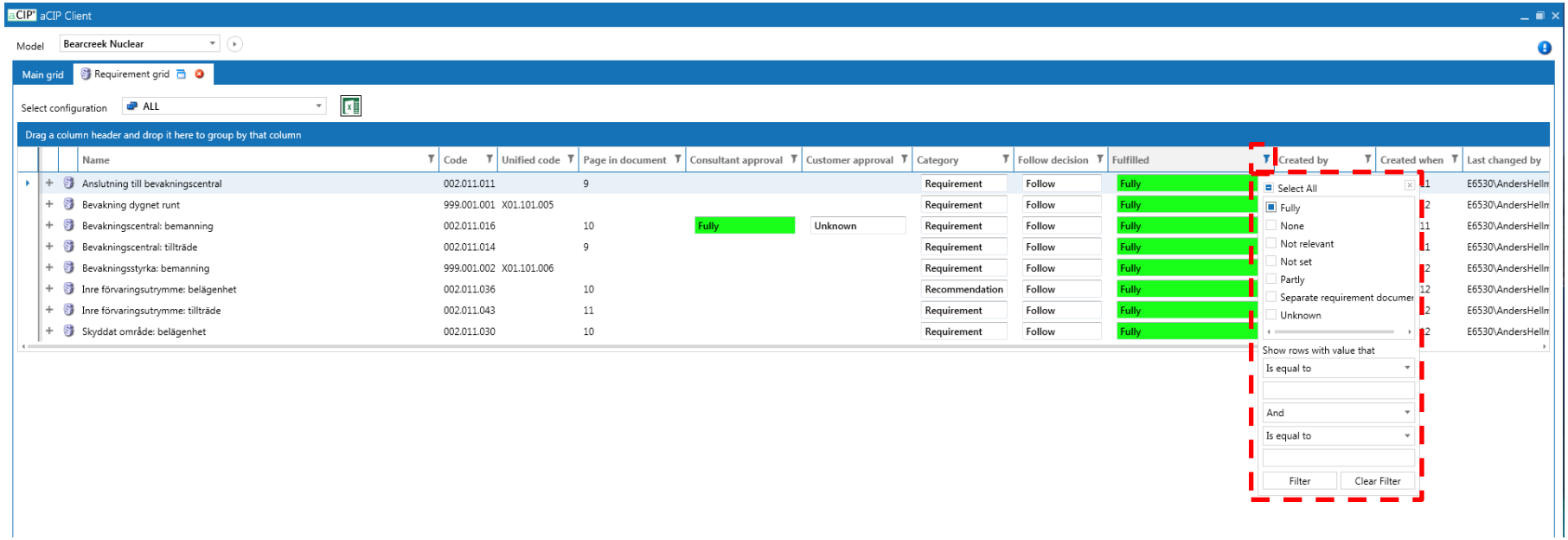
- The column headers are quite handy



Filtering, sorting and grouping of lists

In lists with many elements, assistance to find what you are looking for might be useful

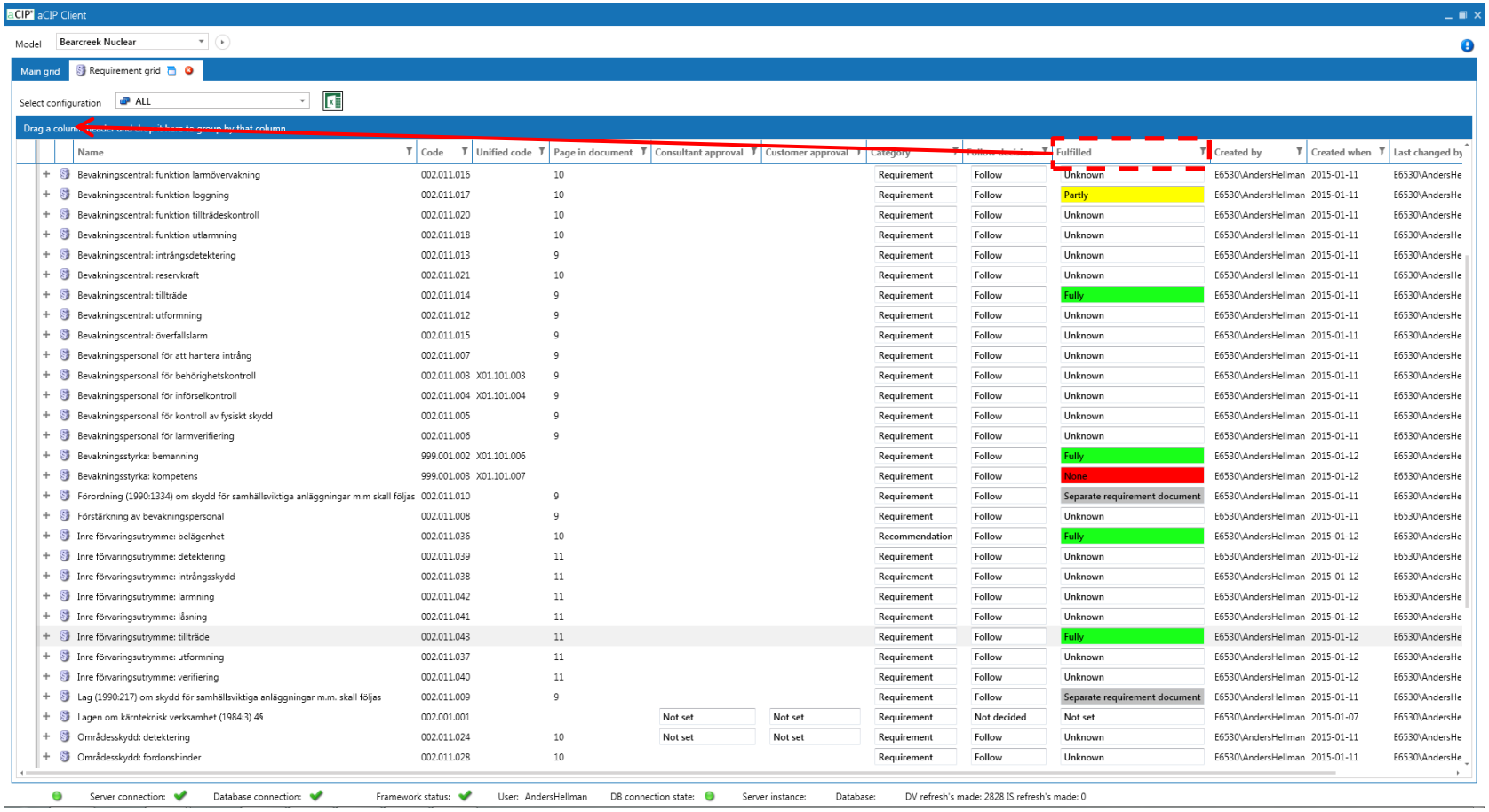
- Click the filter button in a header and the filter window is opened. If the column is configured to use field alternative lists the alternatives is shown as filter criterias. You can also define you own filter conditions.
- Sorting is done by clicking on the column header. You then toggle between ascending/descending/unsorted.



Filtering, sorting and grouping of lists

In lists with many elements, assistance to find what you are looking for might be useful

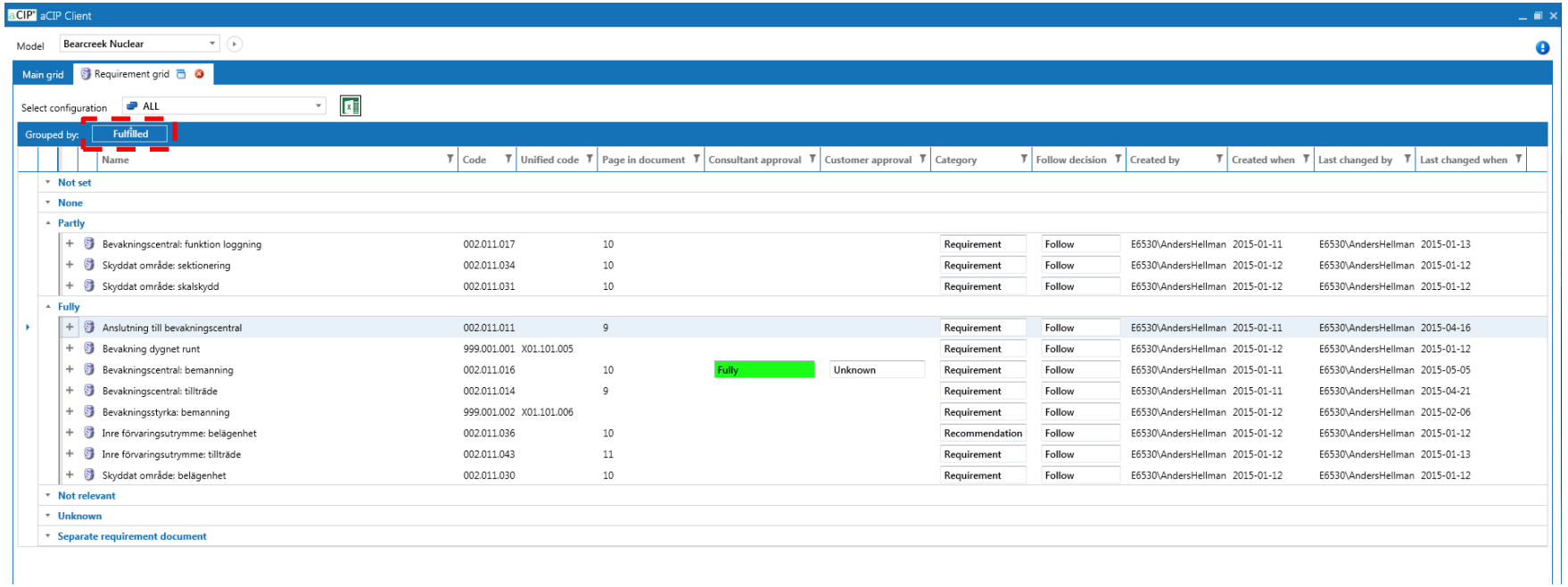
- Click a column header, drag it to the frame above the list and drop it there to group by that column.



Filtering, sorting and grouping of lists

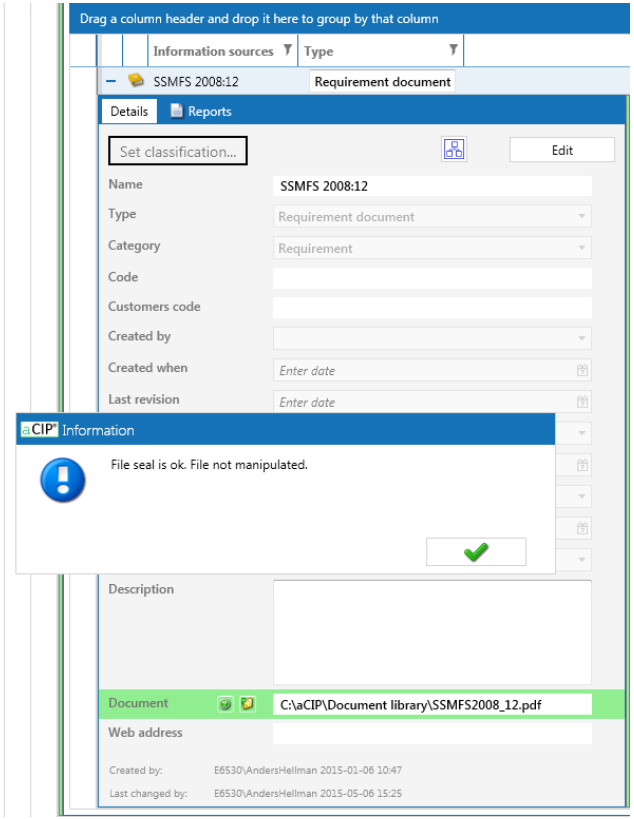
In lists with many elements, assistance to find what you are looking for might be useful

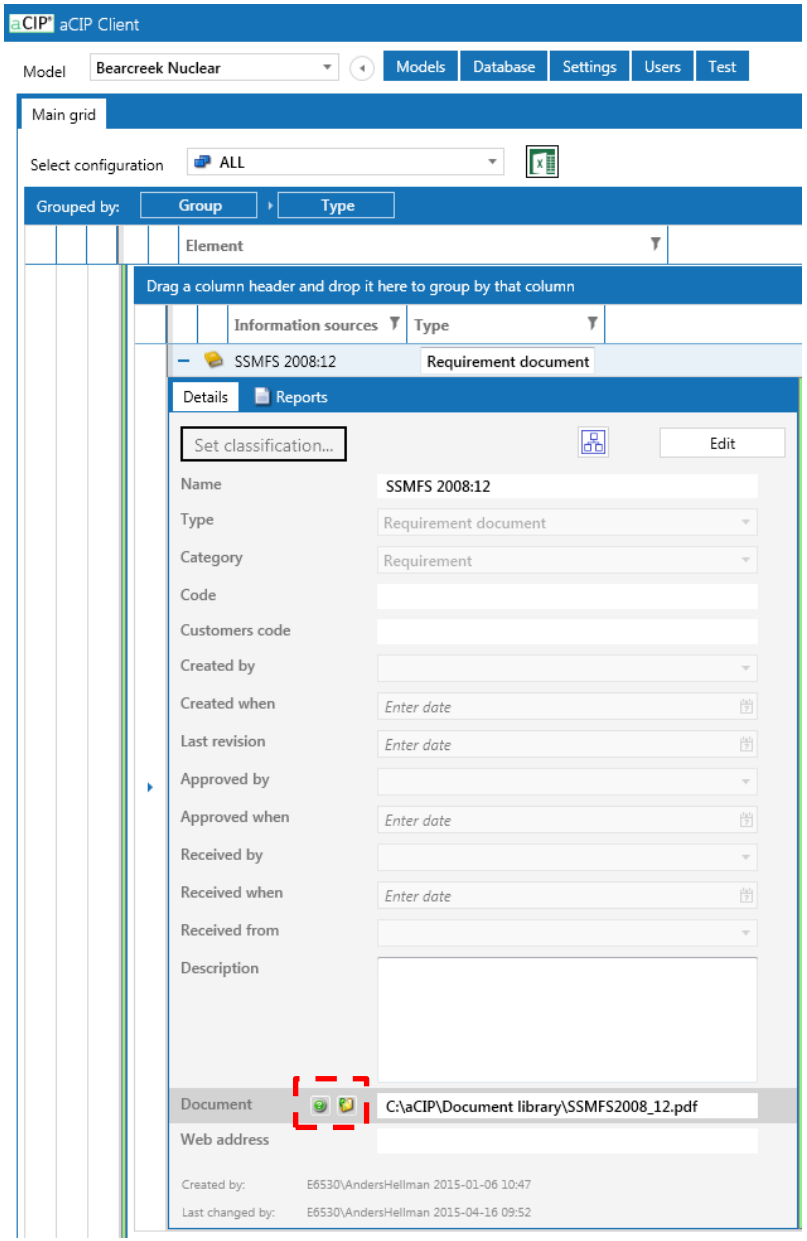
- The list is now grouped by the column ”Fulfilled”



Documents

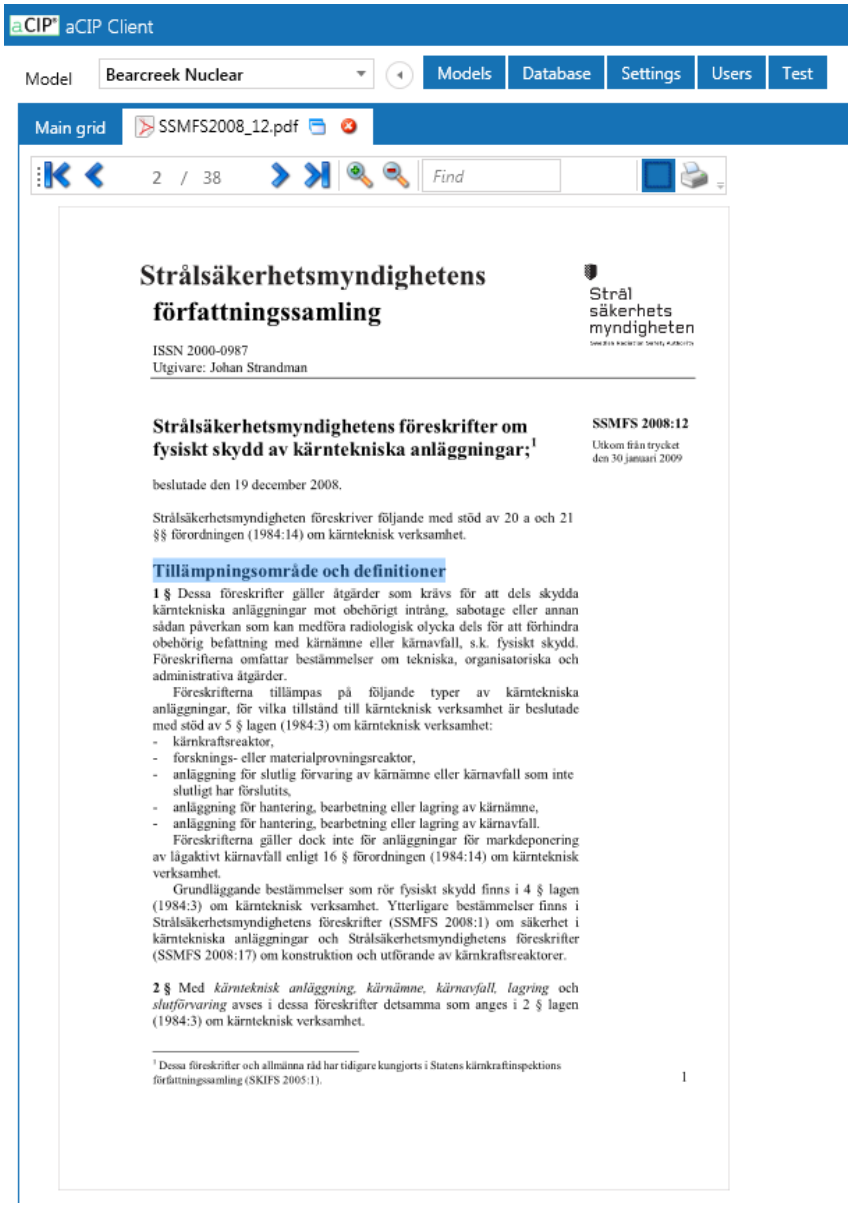
- With the special column ”DocumentLink” a function to link to external documents can be added to any element or relation type
- In read mode there is two buttons
  - 1 – Open the document
  - 2 – Check the document seal





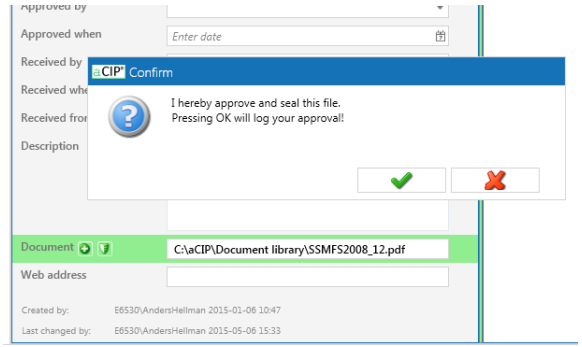
Documents

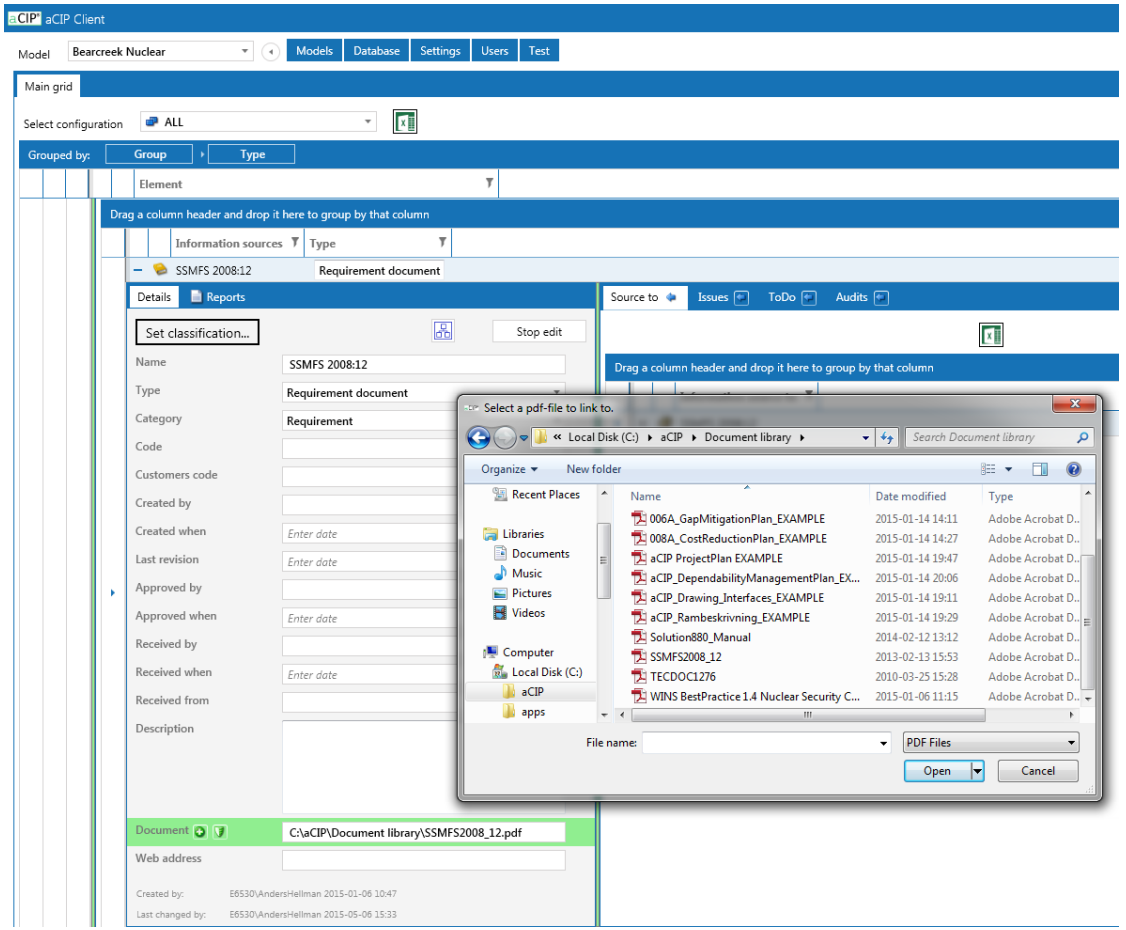
- If you click the open button the document is now opened in **aCIP®**
- You can read, search, copy-and-paste and print
- If you have more than one monitor you can brake loose documents and move them to another monitor



Documents

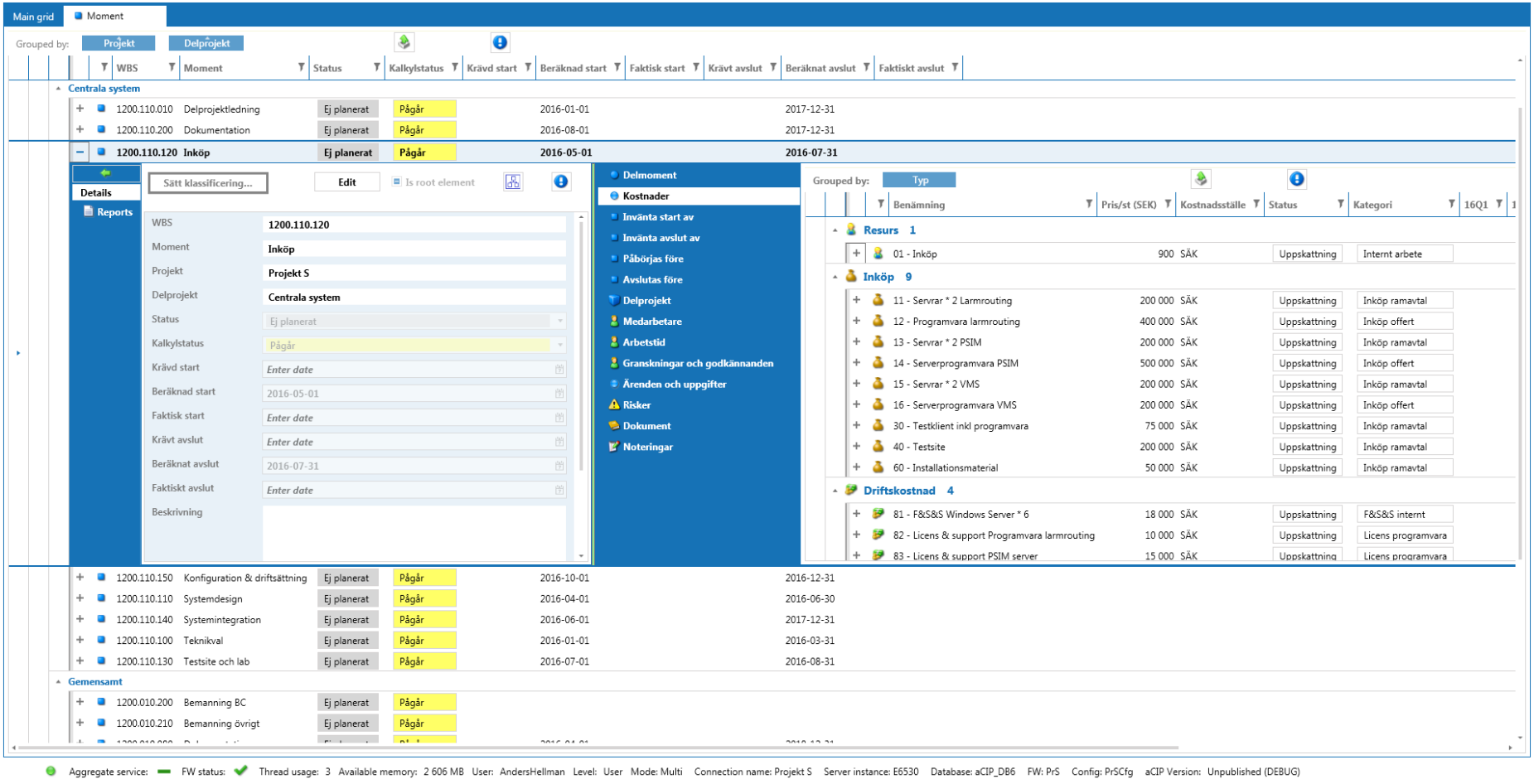
- In edit mode two other buttons are shown:
  - 1 - Select document to link to
  - 2 – Seal the document to activate change detection.





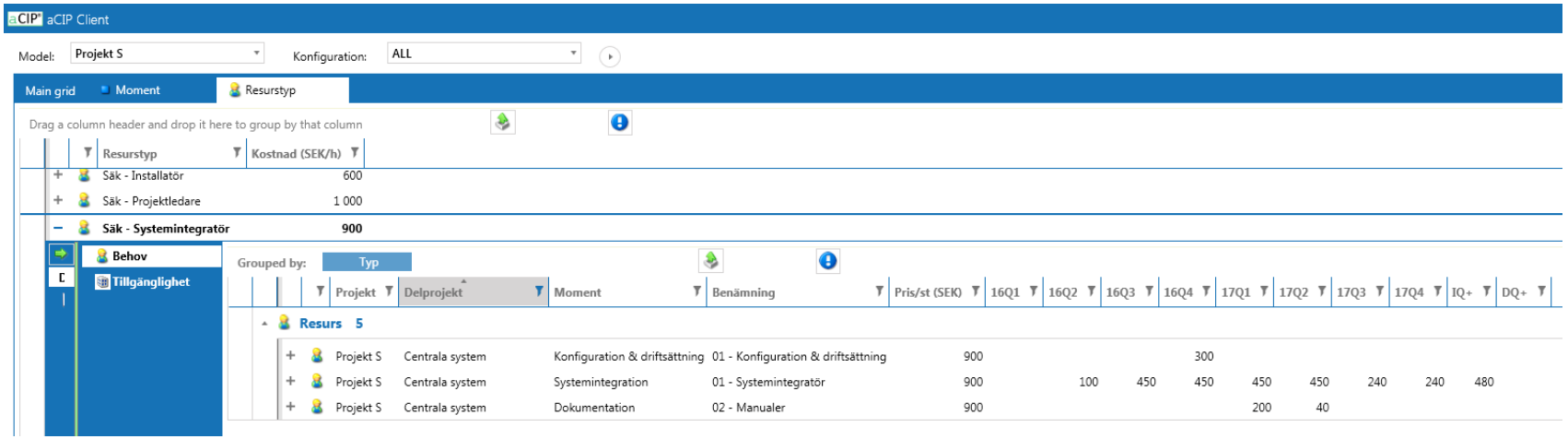
Project management

- Powerful support for project management can be configured including resource planning, budgets and follow up, risk management etc



Project management

- Resource needs over time



Project management

Example report project calculation:

Projekt

Kalkylsammanställning

Kostnader (kSEK)

				2016				2017				Totalt		
WBS	Delprojekt	Start*	Slut*	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	->2017	IQ+	DQ+
1200.010	Gemensamt	2016-01-01	2018-12-31	540	606	564	644	844	764	744	664	**5 370**	1 920	40
1200.100		2016-01-01	2017-12-31	1 265	1 232	168	168	168	168	168	168	**3 505**	0	48
1200.110	Centrala system	2016-01-01	2017-12-31	750	3 101	1 868	1 372	1 307	856	631	631	**10 516**	600	31
1200.210		2016-08-01	2017-03-31	0	0	178	993	420	33	33	33	**1 690**	0	33
1200.220		2017-04-01	2017-08-31	0	0	0	0	0	792	453	33	**1 278**	0	33
1200.250		2017-02-01	2017-04-30	0	0	0	0	308	214	0	0	**522**	0	0
1200.260		2017-02-01	2017-05-31	0	0	0	0	55	364	0	0	**419**	0	0
1200.270		2017-04-01	2017-07-31	0	0	0	0	0	425	15	0	**440**	0	0
				2 555	**4 939**	**2 778**	**3 177**	**3 102**	**3 616**	**2 044**	**1 529**	**23 740**	2 520	185

Fördelning kostnadsställen (kSEK)

	2016				2017				Totalt		
Kostnadsställe	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	->2017	IQ+	DQ+
	0	728	228	202	324	412	471	246	**2 611**	768	34
IT	1 165	557	120	120	120	120	120	120	**2 442**	0	0
KST?	1 390	3 654	2 430	2 855	2 658	3 085	1 453	1 163	**18 688**	1 752	151
	2 555	**4 939**	**2 778**	**3 177**	**3 102**	**3 617**	**2 044**	**1 529**	**23 741**	2 520	185

Risker

Risk	WBS	Element	Del av		Trolig utfallstid	Utfallsrisk	Trolig utfalls-kostnad (kSEK)	Max utfalls-kostnad (kSEK)	Vägd risk (kSEK)
Projektrisk - Test	1200	Projekt	/		2017-02-10	20 %	500	1 000	100
Delprojektrisk - Test	1200.110	Centrala system	Projekt		2016-09-15	15 %	75	125	11
Fördyring av larmservrar	1200.110.120	Inköp	Projekt	Centrala system	2016-09-15	50 %	400	1 000	200
								2 125	**311**

Projekt

Kalkylsammanställning

Resursbehov (h)

	2016				2017				Totalt		
Resurstyp	*Q1*	*Q2*	*Q3*	*Q4*	*Q1*	*Q2*	*Q3*	*Q4*	*->2017*	*IQ+*	*DQ+*
Arbetsplatsdesigner	0	0	40	0	0	20	0	0	**60**	0	0
Dokumentatör	0	240	360	360	400	440	390	360	**2 550**	960	0
Driverutvecklare	0	0	**640**	160	160	0	0	0	**960**	0	0
Inköpare	0	40	60	0	20	44	0	0	**164**	0	0
IT-arkitekt	**950**	150	0	0	0	0	0	0	**1 100**	0	0
IT-installatör	0	120	40	120	0	120	0	0	**400**	0	0
IT-projektledare	120	120	120	120	120	120	120	120	**960**	0	0
IT-tekniker	0	300	40	0	0	0	0	0	**340**	0	0
Projektledare Senior	240	240	240	240	240	240	240	240	**1 920**	960	0
Säk - Installatör	0	0	0	0	0	180	0	0	**180**	0	0
Säk - Projektledare	120	120	160	160	220	270	165	120	**1 335**	0	0
Säk - Systemintegratör	0	100	450	**1 050**	**800**	**730**	440	240	**3 810**	480	0
Säk - Testare	0	0	**570**	**570**	**1 020**	**520**	**660**	360	**3 700**	240	0
Säk-arkitekt	**840**	**720**	240	0	0	40	0	0	**1 840**	0	0
Säk-tekniker	0	0	40	0	0	320	0	0	**360**	0	0
Utbildare	0	0	0	80	280	200	180	100	**840**	0	40
	2 270	**2 150**	**3 000**	**2 860**	**3 260**	**3 244**	**2 195**	**1 540**	**20 519**	**2 640**	**40**

Fördelning inköpskategorier (kSEK)

	2016				2017				Totalt		
Resurstyp	*Q1*	*Q2*	*Q3*	*Q4*	*Q1*	*Q2*	*Q3*	*Q4*	*->2017*	*IQ+*	*DQ+*
?	0	600	0	0	0	20	0	0	**620**	0	0
Inköp offert	100	1 300	0	345	150	440	0	0	**2 335**	0	0
Inköp ramavtal	0	975	0	257	0	290	0	0	**1 523**	0	0
	100	**2 875**	**0**	**602**	**150**	**750**	**0**	**0**	**4 478**	**0**	**0**

Projekt

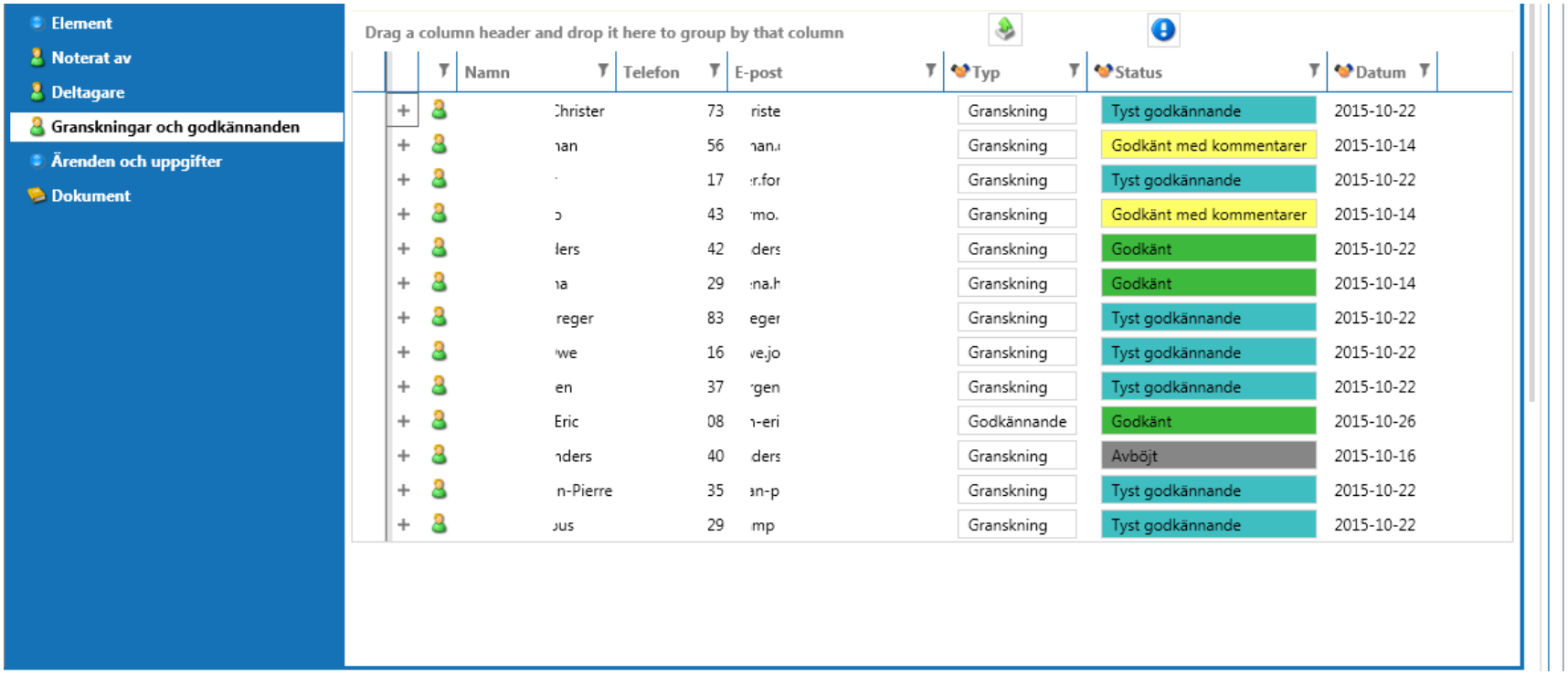
Kalkylsammanställning

Fördelning driftskostnadskategorier (kSEK)

	2016				2017				Totalt		
Resurstyp	*Q1*	*Q2*	*Q3*	*Q4*	*Q1*	*Q2*	*Q3*	*Q4*	*->2017*	*IQ+*	*DQ+*
F&S&S internt	0	0	54	54	78	78	78	102	**444**	0	102
Licens programvara	0	0	0	9	34	34	43	43	**163**	0	43
	0	**0**	**54**	**63**	**112**	**112**	**121**	**145**	**607**	**0**	**145**

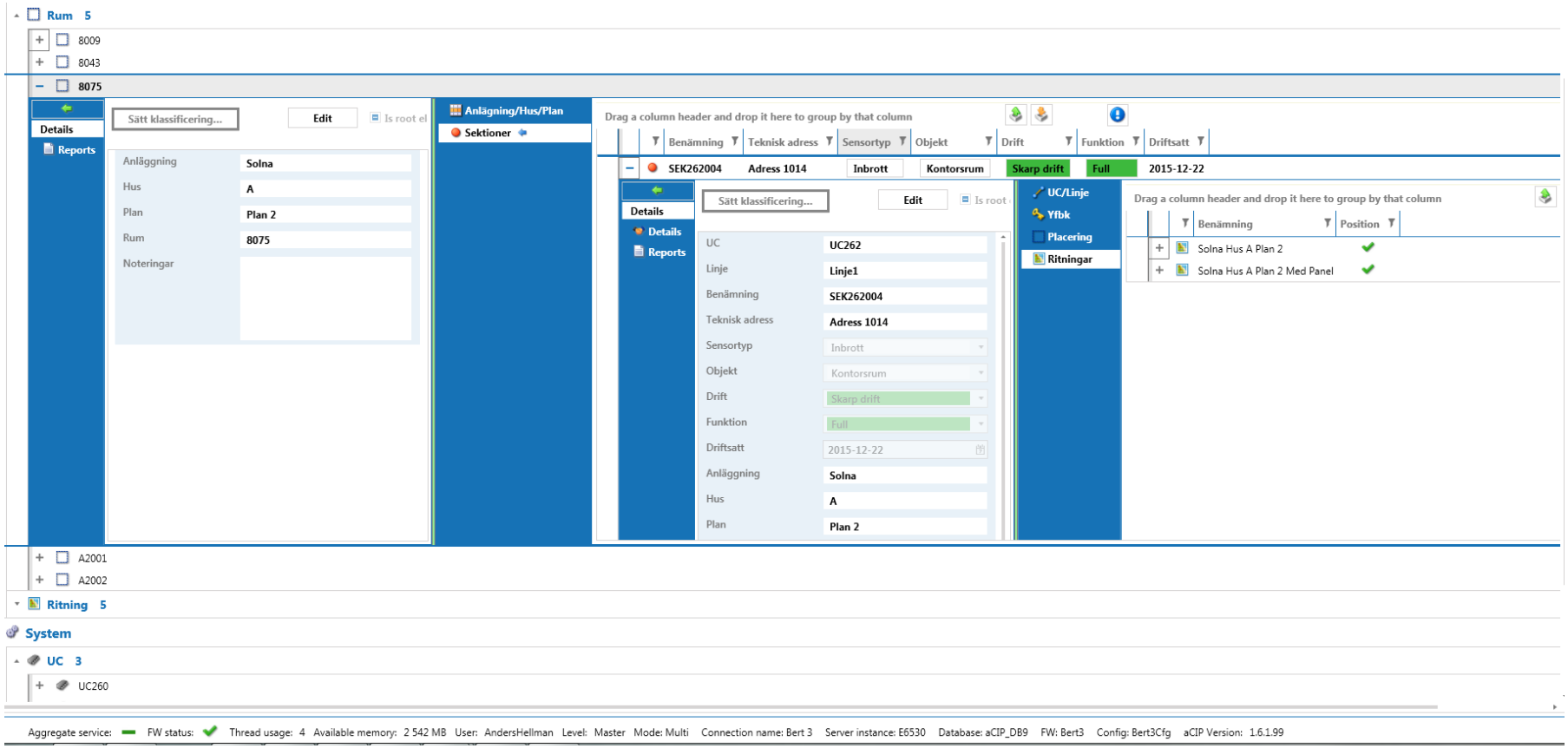
Review and approval process

Can be configured with great flexibility



Configuration of external systems

One, unified configuration repository for all your technical systems (alarm, CCTV, access control, fire alarm etc)



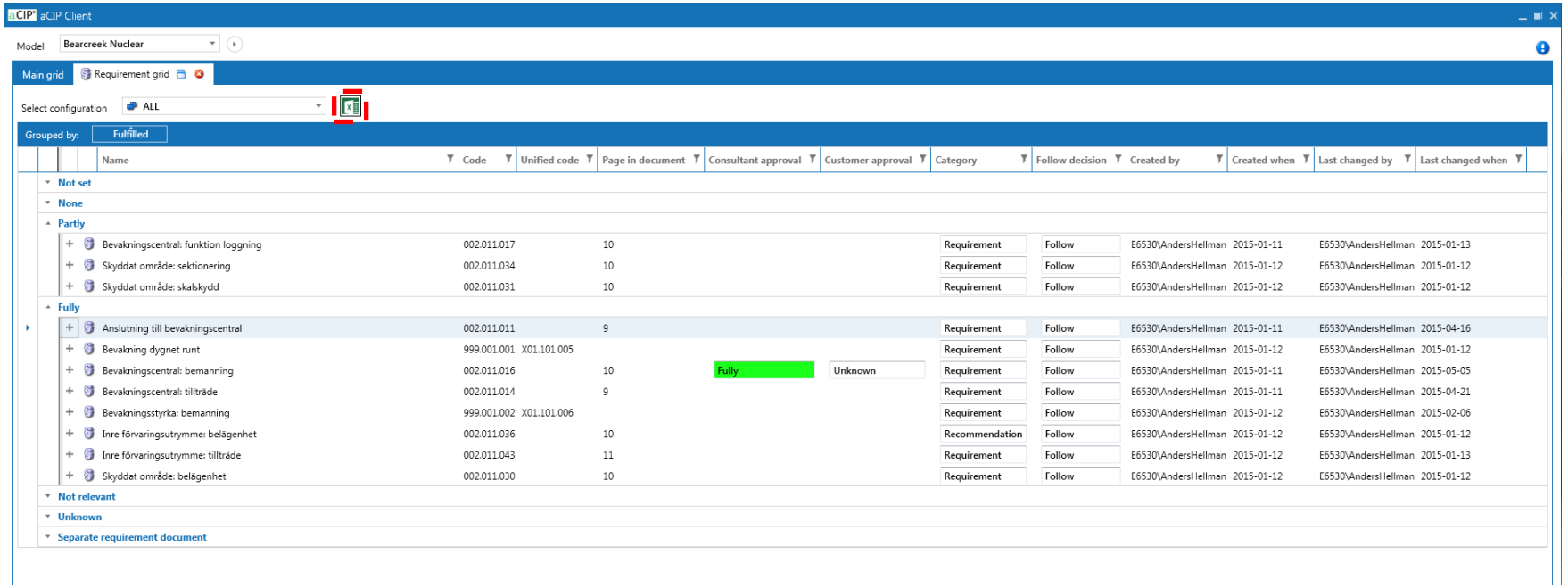
Configuration of external systems

Exact positioning of objects on drawings and maps. Both dynamical maps (ESRI, BingMap etc) and static pictures (jpeg, png, bmp etc) are supported.

Export to Excel

N most views there is an Excel button

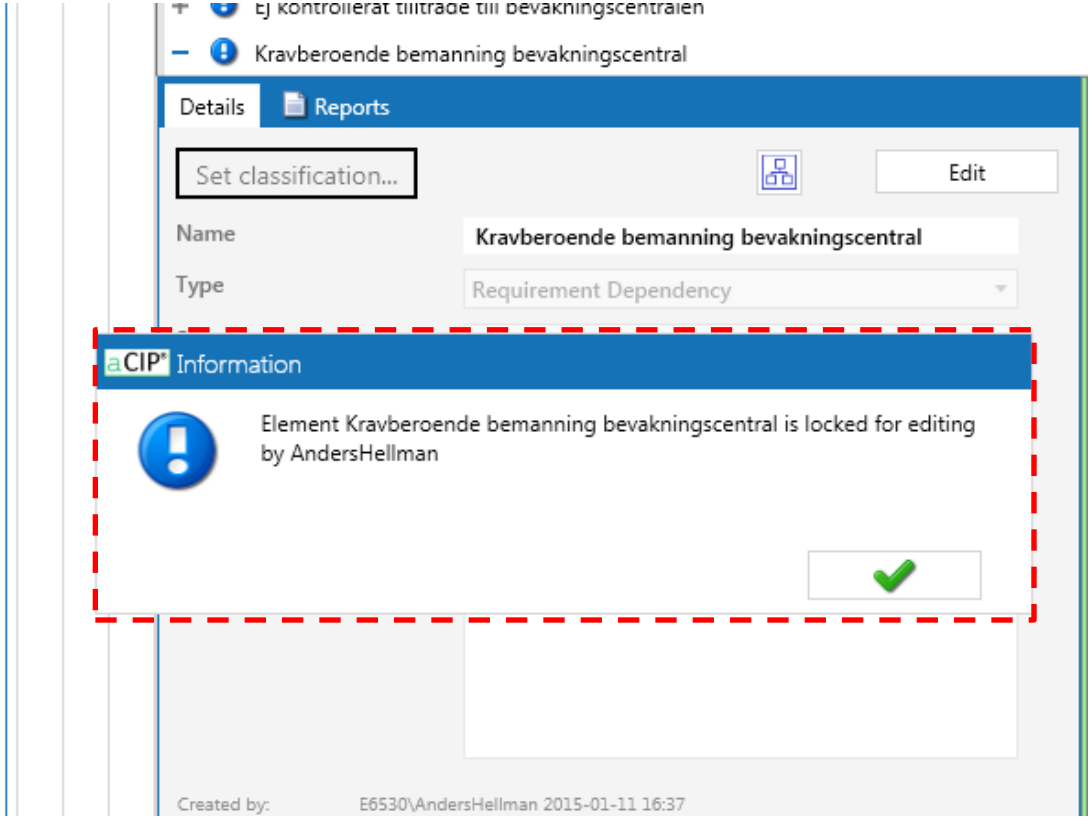
- Press it to export the lists contents to Excel
- Any sorting, filtering and grouping you have done is kept in the export.



Multi user functionality

aCIP® has powerful support for many simultaneous users

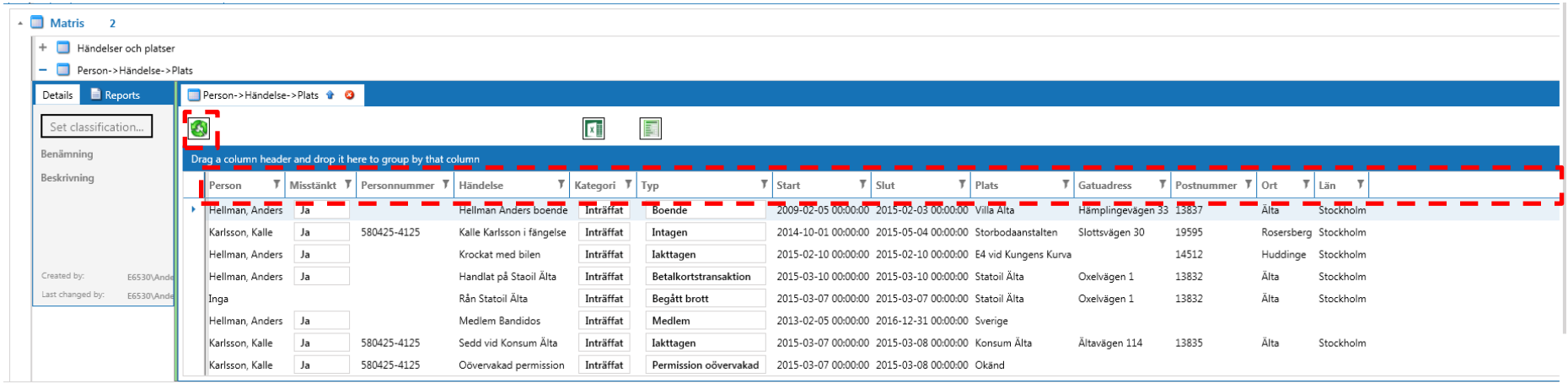
- When you edit an element that element becomes read-only to all other users until you are done.
- All changes done by anyone is immediately shown everywhere for all users.



Matrices

Combine various element types in one single view

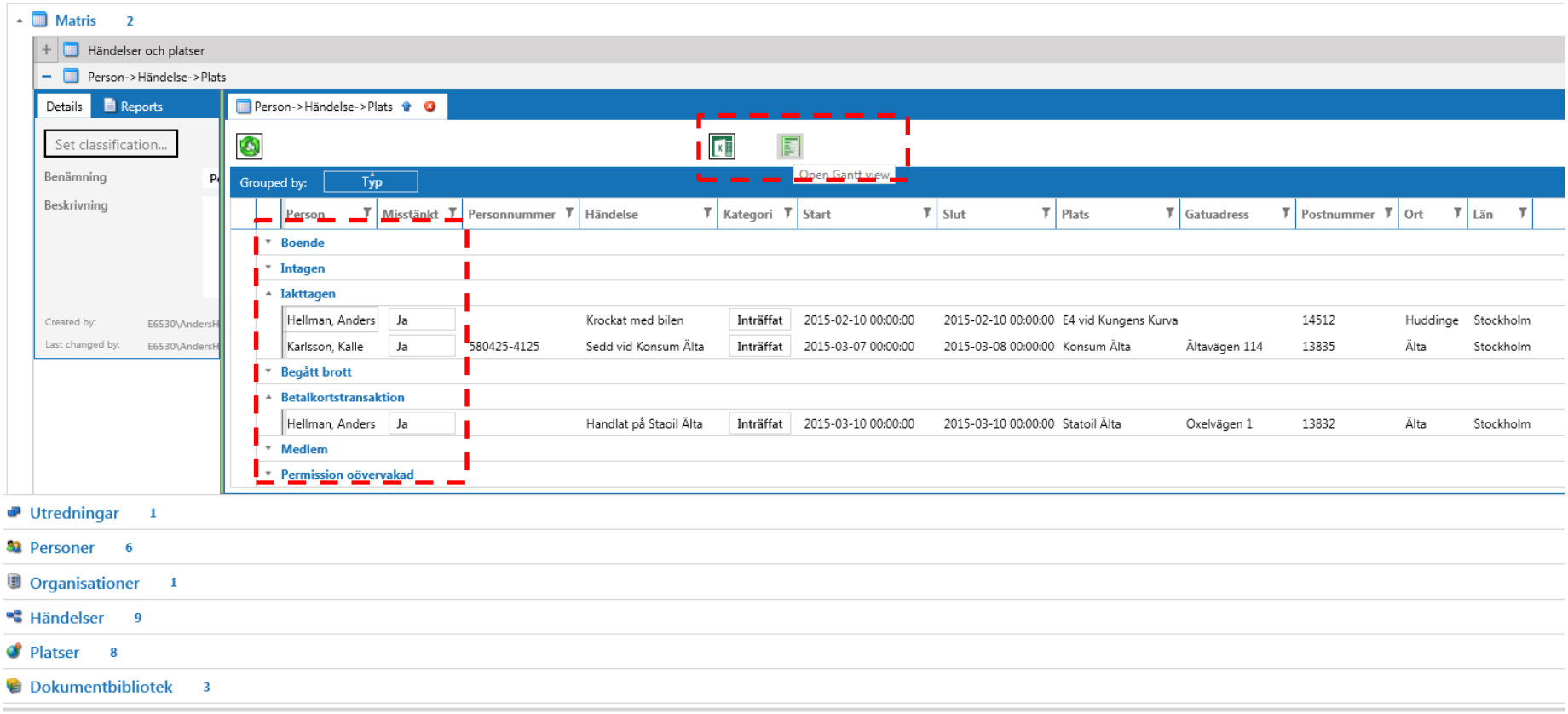
- SQL statements are created and added in the configuration
- Extensive check for hostile code is done to protect from SQL injection
    - That in combination with the authorization system of windows and SQL server gives you double protection against hostile actions
- The SQL statements are compiled and encrypted which makes it practically impossible to modify them
- Matrices off course supports field alternative lists, sorting, filtering and grouping as any other list
- Contrary to other lists, matrices are not updated automatically. Therefore they have a refresh button.



Matrices

Combine various element types in one single view

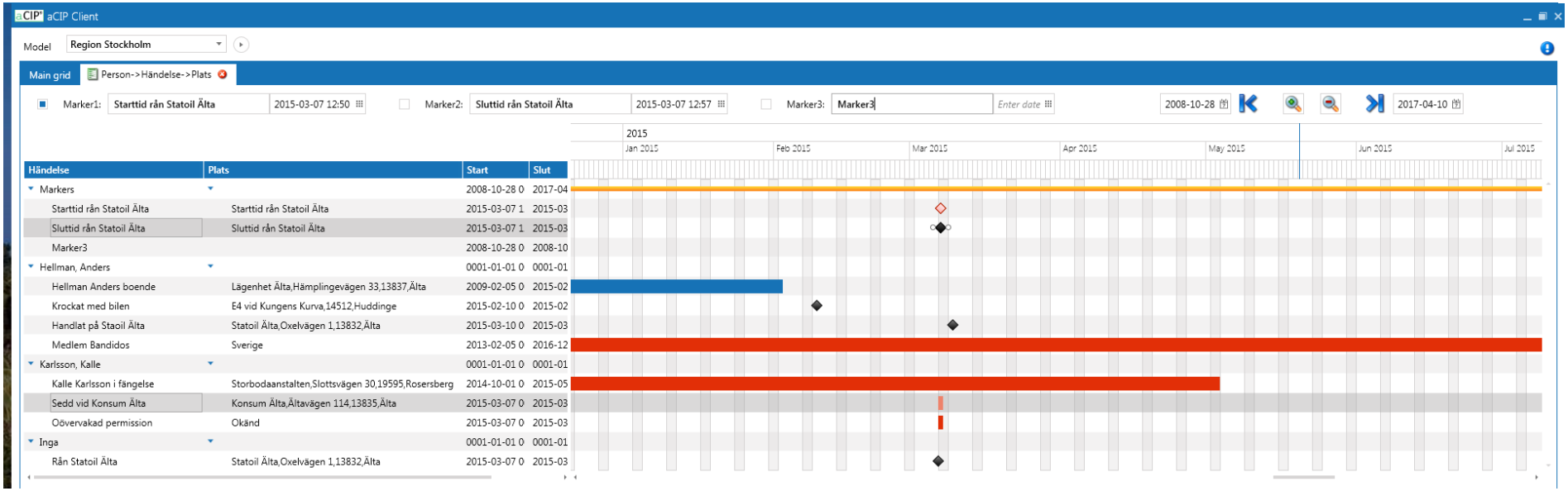
- Example of grouped matrix
- As with any most other view, a matrix can be exported to Excel with its sorting and filtering kept
- If you have “Start” and “Stop/Slut” columns defined you can press the Gantt button to automatically generate a Gantt view from the matrix



Gantt view

Automatically generated Gantt views

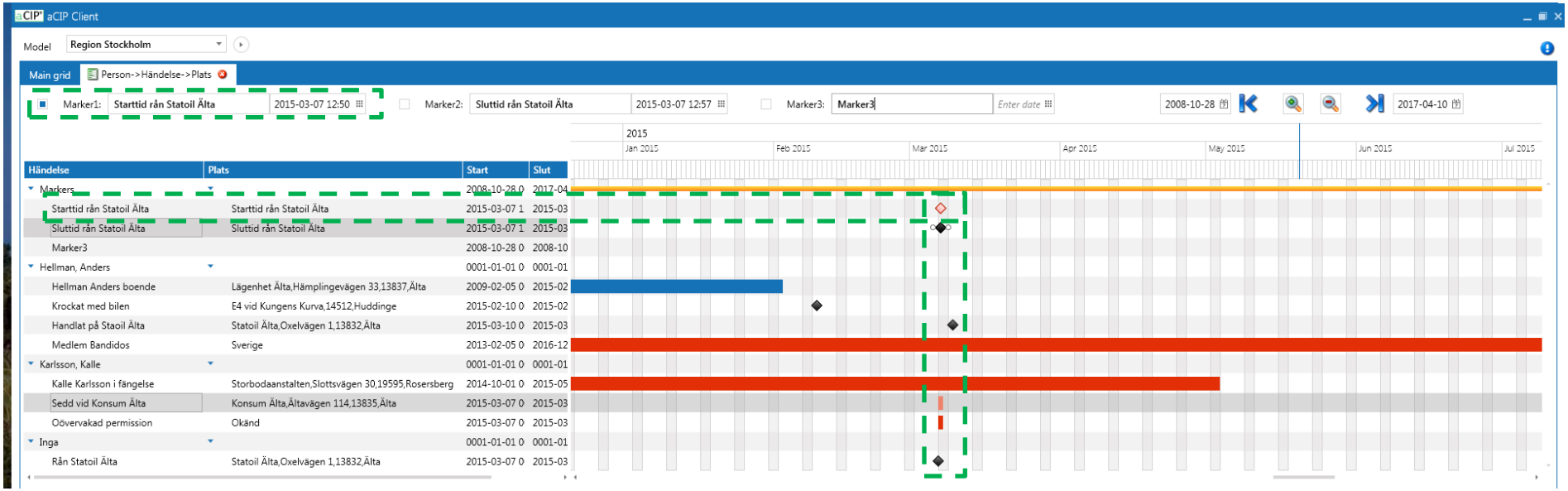
- Created automatically from matrices
- Grouped by the first column in the matrix
- There must be DateTime columns named ”Start” and ”Slut” (or ”End”)
- Get its sort order from the configuration
- Example of usage
  - Visualize project planning
  - Analyze timed events, for example in criminal forensics
  - Visualize threat scenarios



Gantt views

Automatically generated Gantt views

- Markers can easily be configured
- If a marker is activated, all events at the time of the marker is highlighted



The future

aCIP® is under continuous development

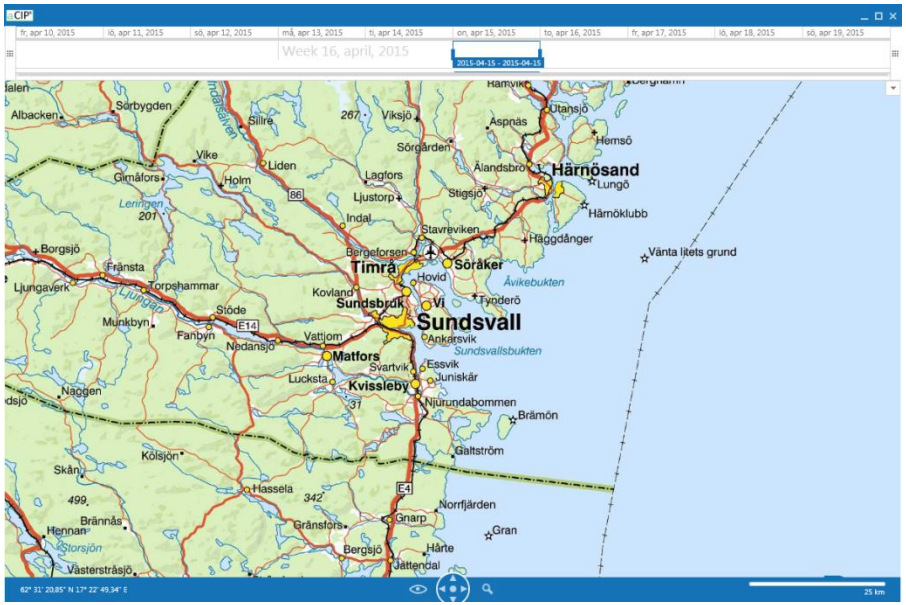
- Bug fixes and smaller adjustments are are done as soon as possible

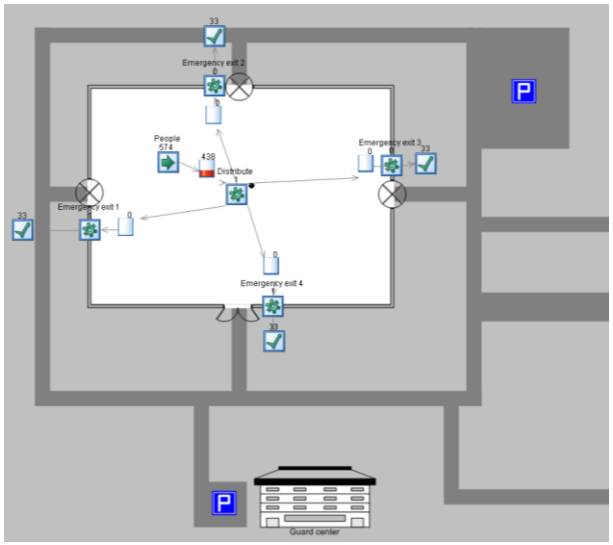
Planned improvements

- GIS-support (partly done)
- User friendly tool to create reports (partly done)
- BLOB storage
  - Storage of files (documents, images, drawings etc) directly in the database
  - Much better version management than when using the file system
  - Admits for transparent encryption

Future plans

- Integration with Simul-8
  - The simulation model can be defined in aCIP
  - The simulation engine in Simul-8 is used when running the simulation





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The art of creating order

Thank you for you attention!