

aCIP® - Smart information management

The art of creating order

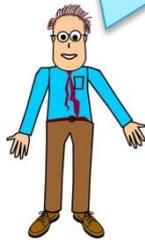


Is this your life?

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.



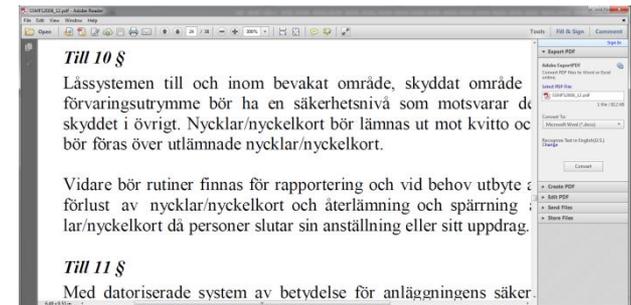
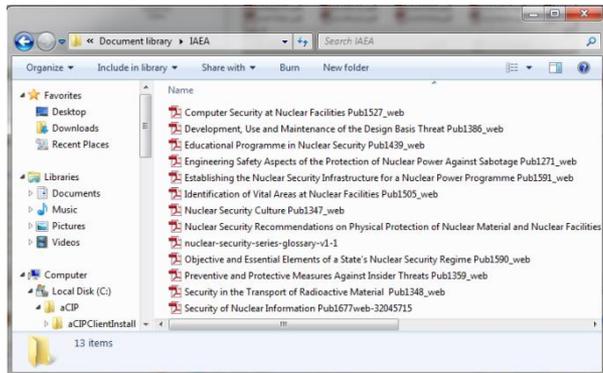
The visitor management computer in the main entrance has gone nuts. Who can help me?



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?



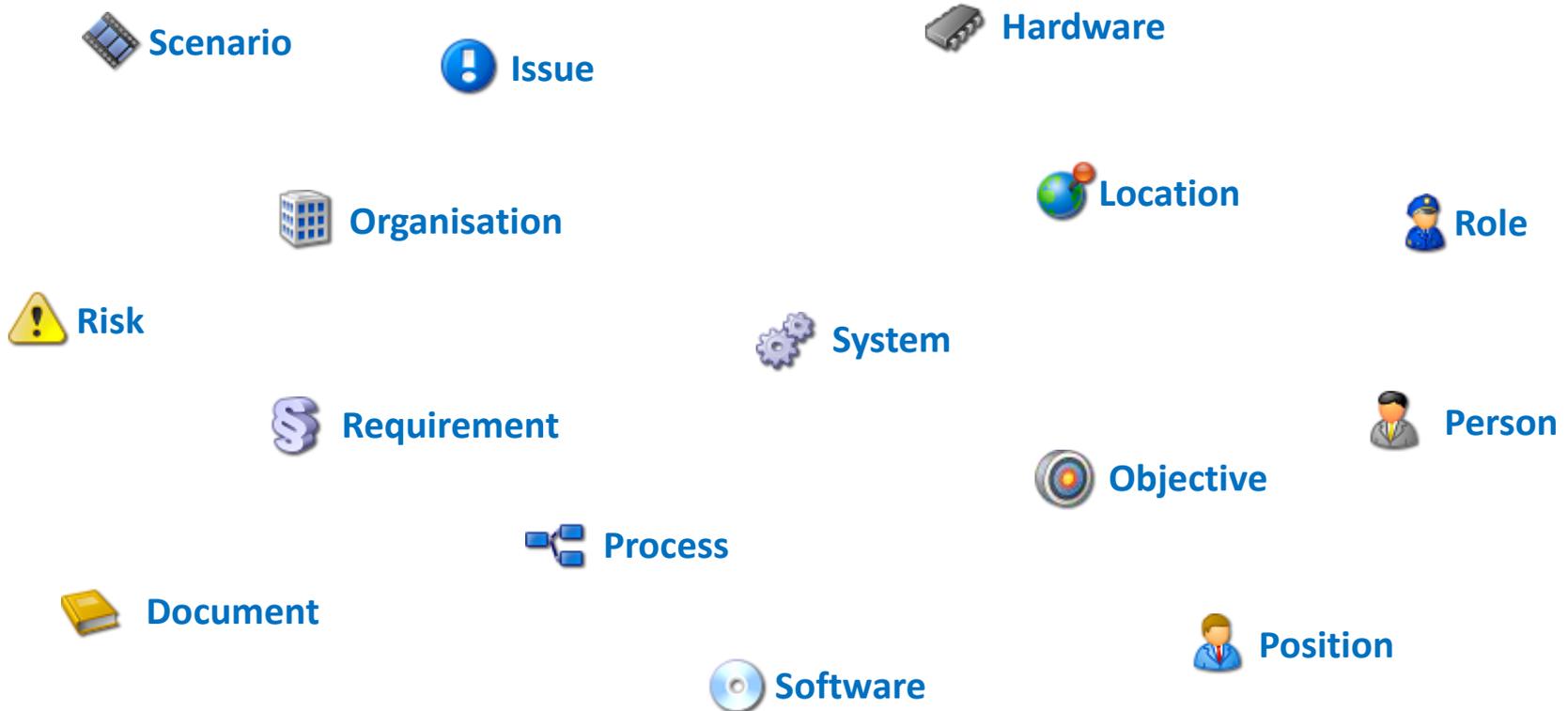
Take it easy, there is hope!



But first a few theses...

Thesis 1

Information describes different types of elements!



Thesis 2

Different element types have different information content!

 Role
<i>Title</i>

 Position
<i>Title</i>

 Person
<i>Name</i>
<i>Telephone</i>
<i>E-mail</i>
<i>Employee no</i>

 Requirement
<i>Title</i>
<i>Code</i>
<i>Text</i>
<i>Fulfillment</i>

 System
<i>Title</i>
<i>Description</i>
<i>Installed date</i>

 Process
<i>Title</i>
<i>Description</i>

 Location
<i>Title</i>
<i>Street address</i>
<i>City</i>
<i>Longitude</i>
<i>Latitude</i>

 Issue
<i>Title</i>
<i>Description</i>
<i>Priority</i>
<i>Status</i>

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

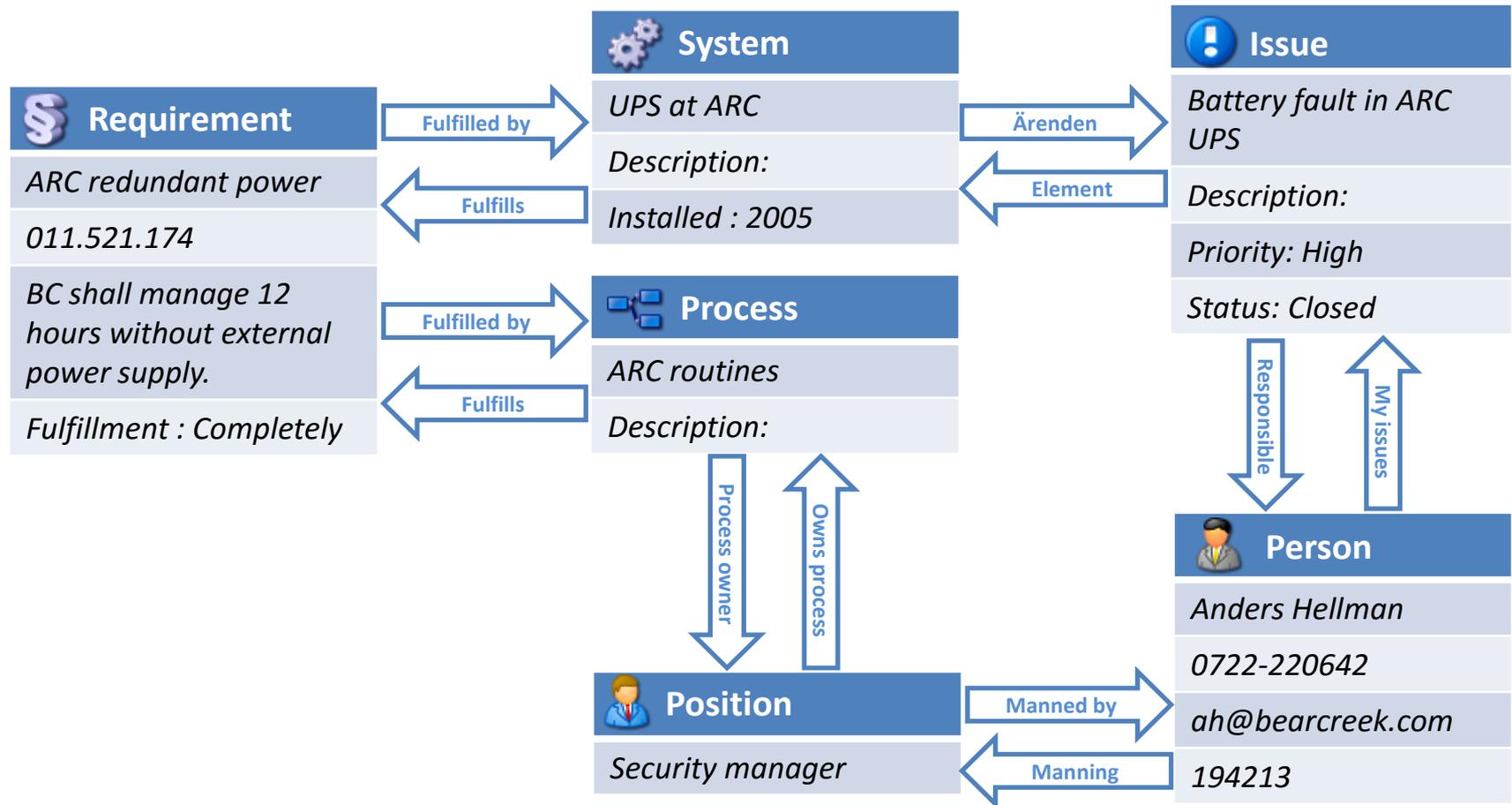
 Process
Title
Description
Owner
Performer
Fulfills requirements
Sub-processes
Activities

 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
<i>Bevakningschef</i>
<i>Bemannas av: Anders Hellman</i>
<i>Telefon: 0722-220642</i>
<i>Mail: ah@bearcreek.se</i> 

 Person
<i>Anders Hellman</i>
<i>Telefon: 0722-220642</i>
<i>Mail: ah@bearcreek.com</i>
<i>Anst.nr: 194213</i>

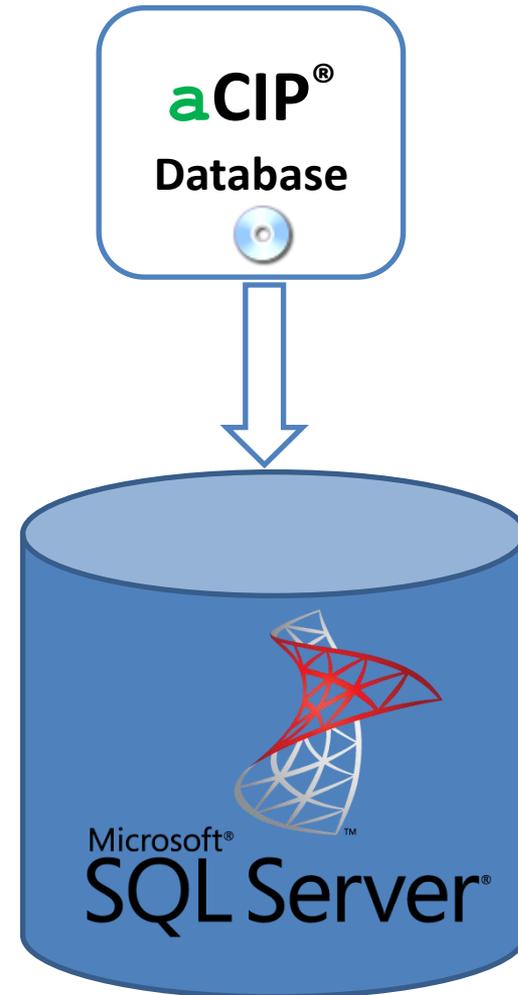
How to make things better



Step 1

Install aCIP® database

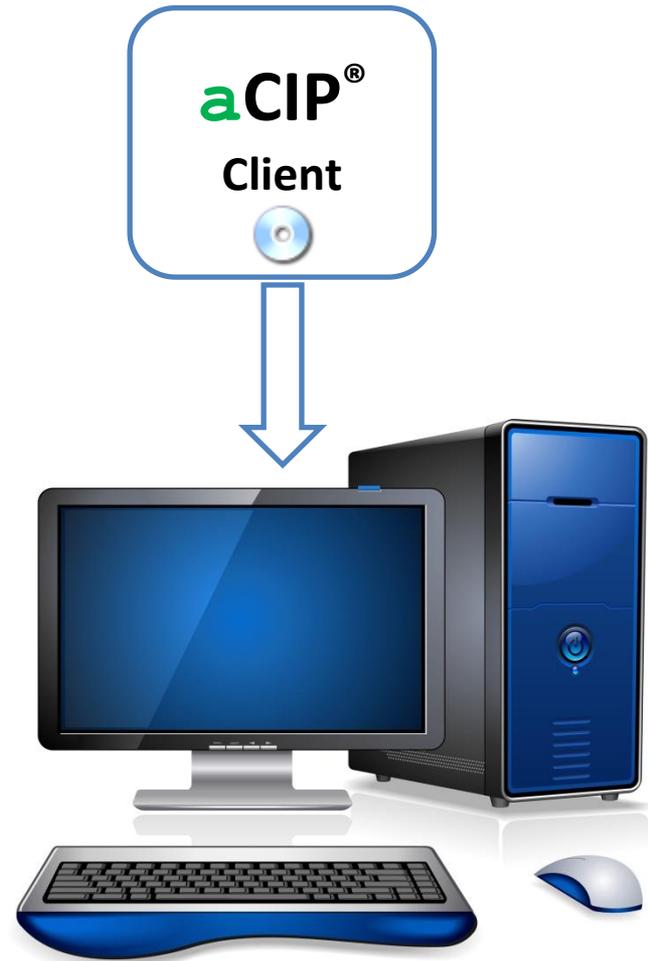
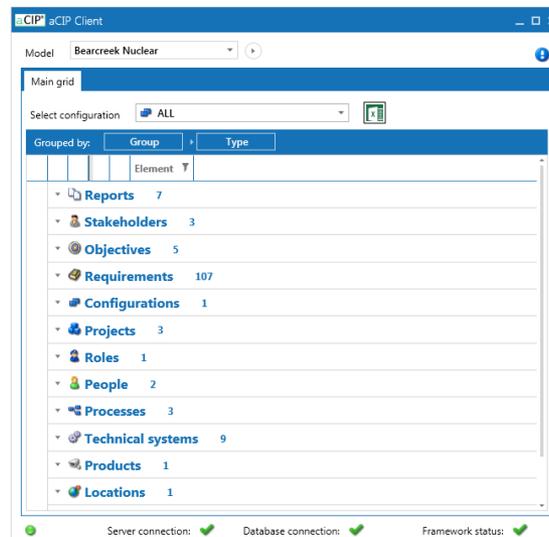
- Database only, no applications or services in the server
- Configure backup
- The database configuration is the same for all data models



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		1	Process	0	9000	Processes
34	28		1	Activity	0	9000	Activity
35	29		1	Competences	1	0	Competences
36	30		1	Competence	0	10000	Competences
37	31		1	OperationalModes	1	0	OperationalModes
38	32		1	OperationalMode	0	11000	OperationalModes
39	33		1	TechnicalSystems	1	0	TechnicalSystems
40	34		1	TechnicalSystem	0	12000	TechnicalSystems
41	35		1	SystemComponent	0	12000	SystemComponent
42	36		1	Equipment	1	0	Equipment
43	37		1	PieceOfEquipment	0	13000	Equipment
44	38		1	Products	0	0	Products
45	39		1	Hardware	0	14000	Hardware
46	40		1	Software	0	14000	Software
47	41		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	<u>Inc</u>	<u>TypeID</u>	<u>Use</u>	<u>Name</u>
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			PrimaryProcessLocation
27	26			AlternativeProcessLocations
28	27			SupervisedByProcess
29	28			MaintainedByProcess
30	29	300	1	SupportByProcess

TypeID
Must be
unique integer
between 1-999

Parameters ElementTypes RelationTypes ElementRelationMa

Step 3.3

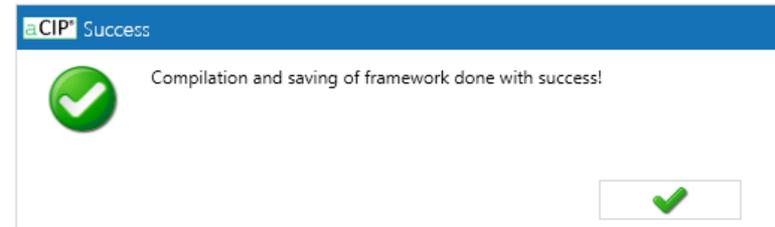
Define framework – ElementRelationsMatrix

	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
191	190	1	PrimaryProcessLocation	Target	Location	1

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



Checking framework consistency.

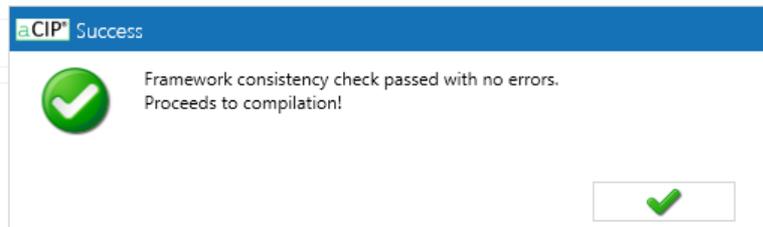
Please wait!

Check_Framework_Parameters_Consistency passed with 0 errors and warnings!

Check_Framework_ElementTypes_Consistency passed with 0 errors and warnings!

Check_Framework_RelationTypes_Consistency passed with 0 errors and warnings!

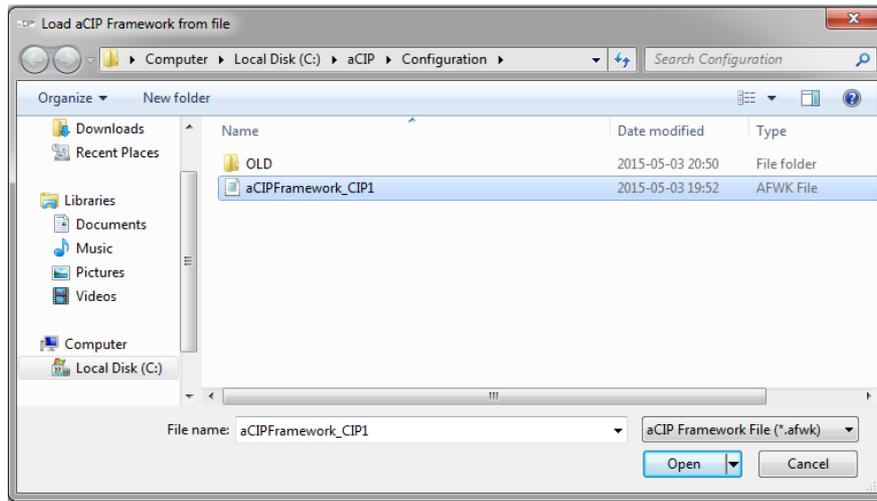
Check_Framework_MatrixElements_Consistency passed with 0 errors and warnings!



Step 3.5

Load the framework

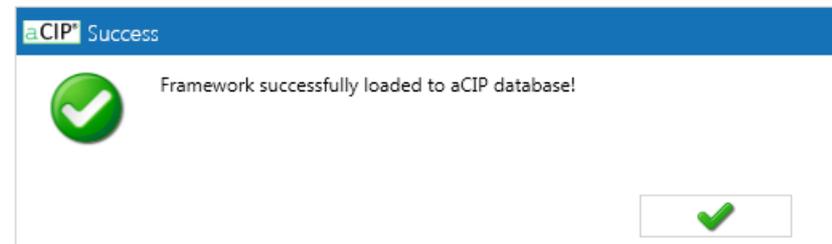
- Start the aCIP client as Admin
- Load the framework file



Loading framework to aCIP database.

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

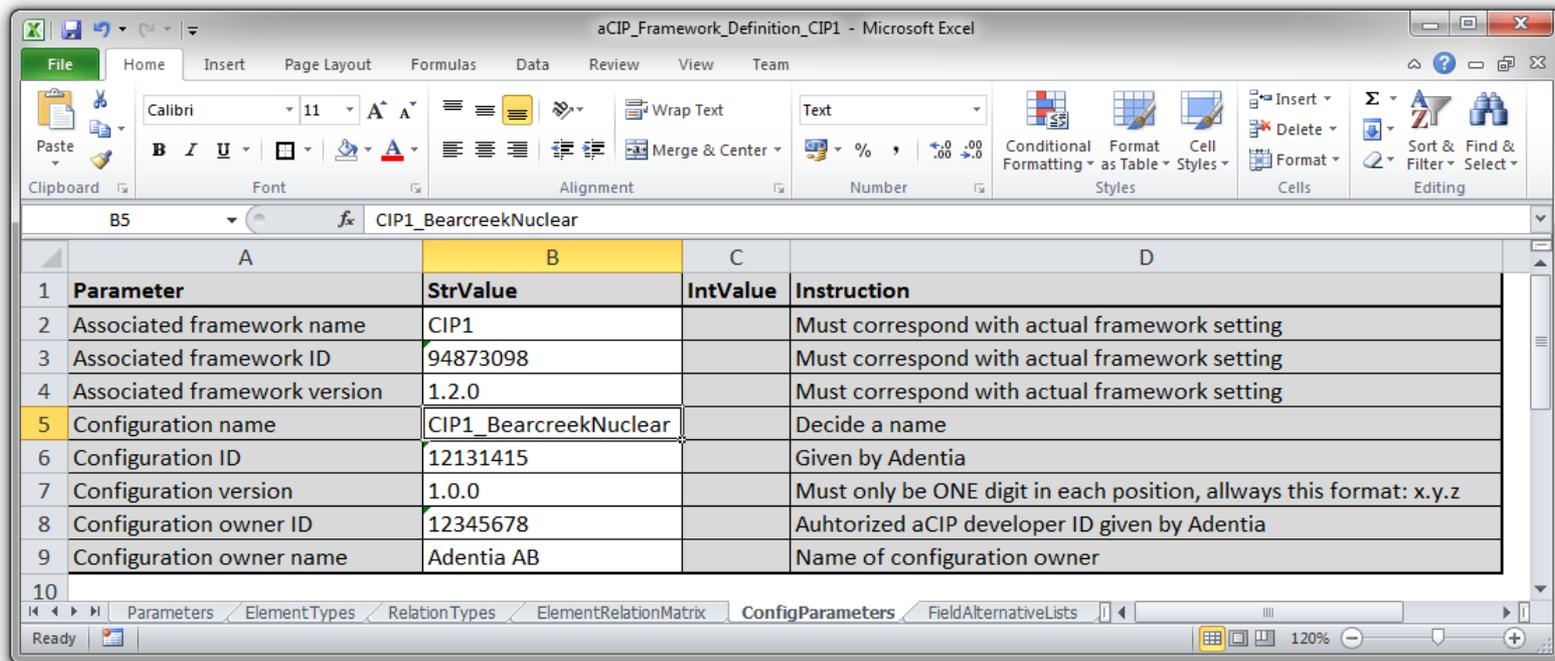
Identified framework: CIP1 Version 1.2.0.
8 parameters erased from framework database!
133 ElementRelationTypes erased from framework database!
311 ElementRelationMatrix posts erased from framework database!
69 ElementTypes successfully stored in framework database!
64 RelationTypes successfully stored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



The screenshot shows a Microsoft Excel spreadsheet titled "aCIP_Framework_Definition_CIP1 - Microsoft Excel". The spreadsheet contains a table with the following data:

	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

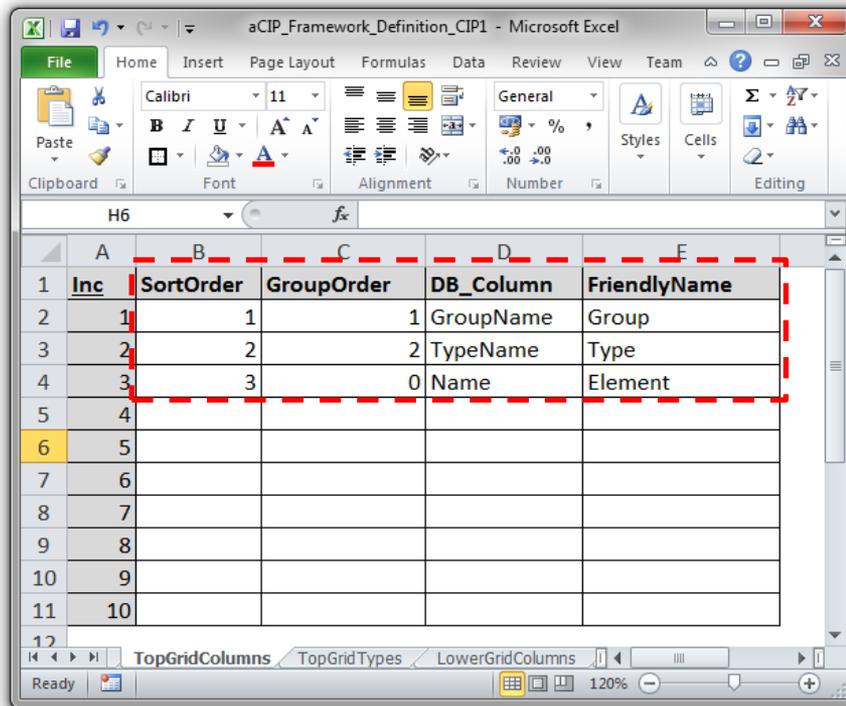
- These can later be used when defines data fields for elements and relations

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	CrimeSeverity	0	Not a crime	0	255	25	255	25	FALSE		
28	CrimeSeverity	1	Low	1	255	255	255	0	FALSE		
29	CrimeSeverity	2	Medium	2	255	255	100	0	FALSE		
30	CrimeSeverity	3	High	3	255	255	50	0	FALSE		
31	CrimeSeverity	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		

Step 4.3

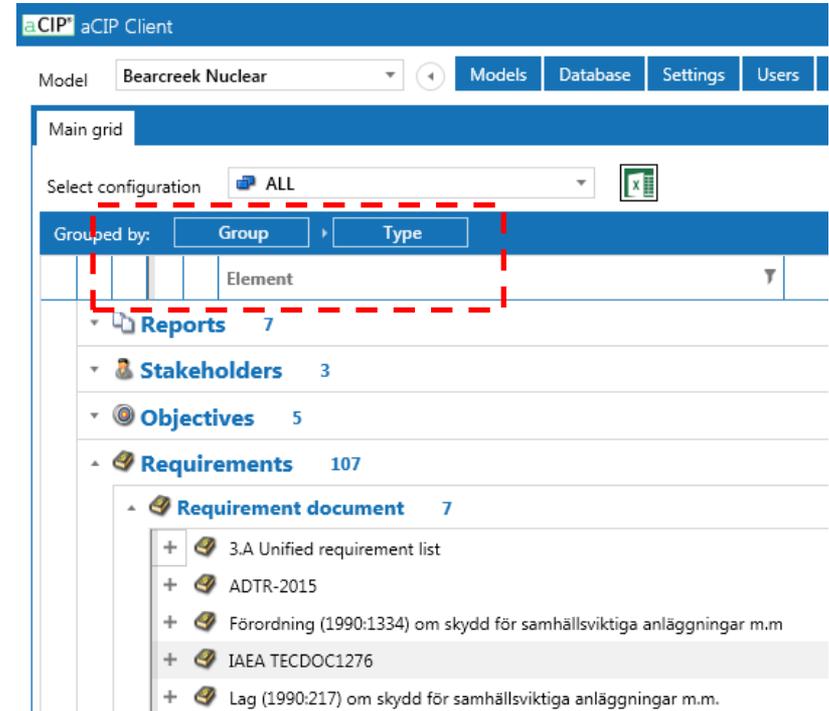
Define configuration – Columns in the main view

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



aCIP_Framework_Definition_CIP1 - Microsoft Excel

	A	B	C	D	E
1	Inc	SortOrder	GroupOrder	DB_Column	FriendlyName
2	1	1	1	GroupName	Group
3	2	2	2	TypeName	Type
4	3	3	0	Name	Element
5	4				
6	5				
7	6				
8	7				
9	8				
10	9				
11	10				
12					



aCIP Client

Model: Bearcreek Nuclear

Main grid

Select configuration: ALL

Grouped by: Group, Type

Element

- Reports 7
- Stakeholders 3
- Objectives 5
- Requirements 107
 - Requirement document 7
 - 3.A Unified requirement list
 - ADTR-2015
 - Förordning (1990:1334) om skydd för samhällsviktiga anläggningar m.m
 - IAEA TECDOC1276
 - Lag (1990:217) om skydd för samhällsviktiga anläggningar m.m.

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	None	
150	Subprojectmanager	Target		1	0 Name	Sub-	None	
151	Subprojectmanager	Source		1	0 CxxString02	WBS	None	
152	Subprojectmanager	Source		2	0 Name	Sub-	None	
153	ProjectOwner	Target		1	0 Name	Proj	None	
154	ProjectOwner	Source		1	0 CxxString02	WBS	None	
155	ProjectOwner	Source		2	0 Name	Proj	None	
156	ProjectStakeholders	Target		1	0 Name	Stak	None	
157	ProjectStakeholders	Source		1	0 CxxString02	WBS	None	
158	ProjectStakeholders	Source		2	0 Name	Proj	None	
159	TaskResponsible	Target		1	0 Name	Task	None	
160	TaskResponsible	Source		1	0 CxxString02	WBS	None	
161	TaskResponsible	Source		2	0 Name	Task	None	

The screenshot shows a software interface with a configuration table and a task view. The configuration table has columns: Inc, RelationType, EndPoint, SortOrder, GroupOrder, DB_Column, FriendlyName, FieldAlternativeList, and DateTimeFormatString. The task view shows a task with ID '104.002.012', name 'Montering centralutrustning', status 'Ready for review', and dates '2015-05-04' to '2015-05-23'. The interface includes a blue header bar with navigation buttons and a blue bar with a drag-and-drop instruction: 'Drag a column header and drop it here to group by that column'.

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	1	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	FALSE						
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									

Details Reports

Set classification... Edit

Name: SSMFS 2008:12

Code: 002

Customer code: 1234

Descriptive name: SSM's föreskrifter om fysiskt skydd av kärntekniska anläggningar

Split complete: Yes

Valid from: 2008-01-01

Valid to: 2050-12-31

Status: Real

Type: Source

Created by: E6530\AndersHellman 2015-01-06 10:46

Last changed by: E6530\AndersHellman 2015-04-28 12:39

Information source Chapters Owner Configurations Issues ToDo Audits

Drag a column header and drop it here to group by that column

	Code	Chapters	Breakdown complete	Type	Category	Follow decision
+ 002.001	Inledning (15,25,35)	Yes	Source	Requirement	See below	
+ 002.002	Skydd av och kontroll av tillträdet till anläggningen mm (45)	No	Source	Requirement	Not decided	
+ 002.003	Hantering, bearbetning, lagring eller slutförvar av kärnämne eller kärnavfall (55)	No	Source	Requirement	Not decided	
+ 002.004	Organisation och personal (65,75)	No	Source	Requirement	Not decided	
+ 002.005	Studiebesök (85)	No	Source	Requirement	Not decided	
+ 002.006	Hantering av uppgifter om säkerhetsåtgärder (95)	No	Source	Requirement	Not decided	
+ 002.007	Läs och nycklar (105)	No	Source	Requirement	Not decided	
+ 002.008	Datoriserade system (115)	No	Source	Requirement	Not decided	
+ 002.009	Undantag (125)	No	Source	Requirement	Not decided	
+ 002.010	Kategorisering av anläggningar (Bilaga 1)	No	Source	Requirement	Not decided	

Step 4.6

Define configuration – Classification levels

Inc	Name	Level	Watermark	ShowStamp	StampsBold	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										

Details Reports

Open Stop edit

Not set

Open

Internal

Commercial in confidence

Secret

Top secret

SSMFS 2008:12

002

1234

SSM's föreskrifter om fysiskt skydd av kärntekniska anläggningar

Yes

Valid from: 2008-01-01

Valid to: 2050-12-31

Status: Real

Type: Source

Created by: E6530\AndersHellman 2015-01-06 10:46

Last changed by: E6530\AndersHellman 2015-05-05 17:27

003: A Unified requirement list

Model: Bear Creek Nuclear

Organization: [Logo]

Public: [X] / [] / [] / []

Page: [] / []

- KSI 101.001: [] / [] / []
- KSI 101.002: [] / [] / []
- KSI 101.003: [] / [] / []
- KSI 101.004: [] / [] / []
- KSI 101.005: [] / [] / []
- KSI 101.006: [] / [] / []
- KSI 101.007: [] / [] / []

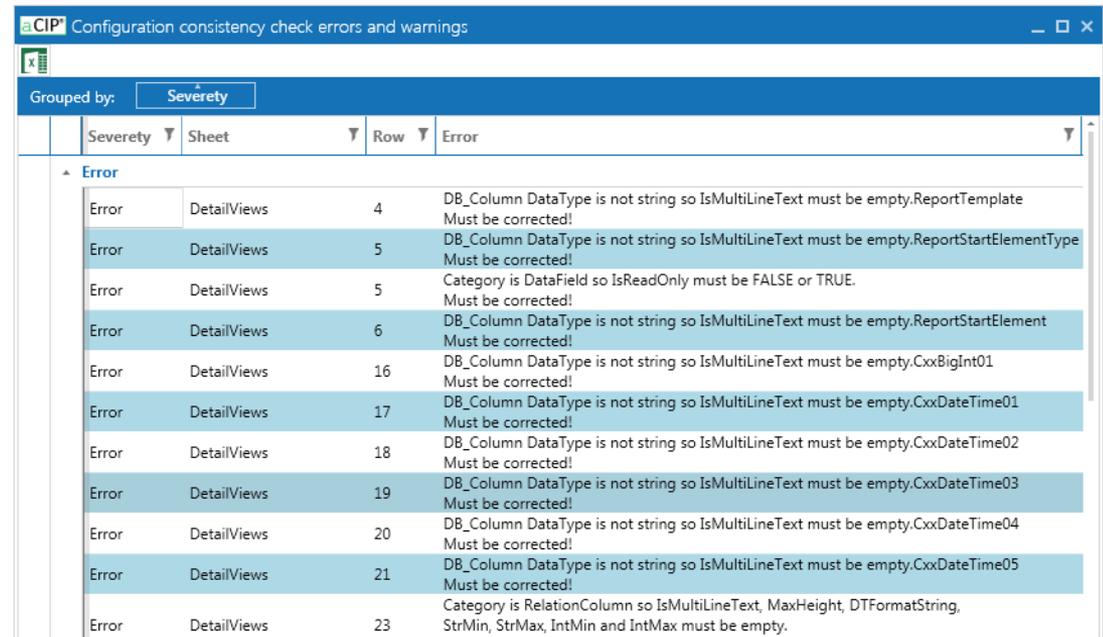
Secret

Page 1 of 1

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



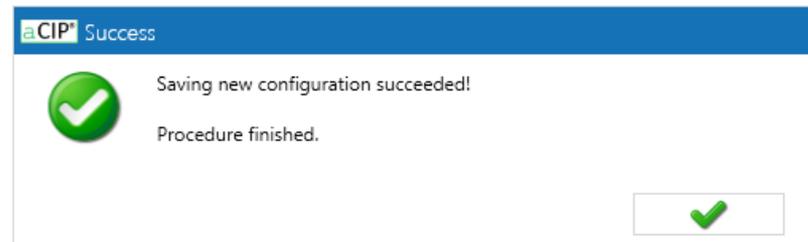
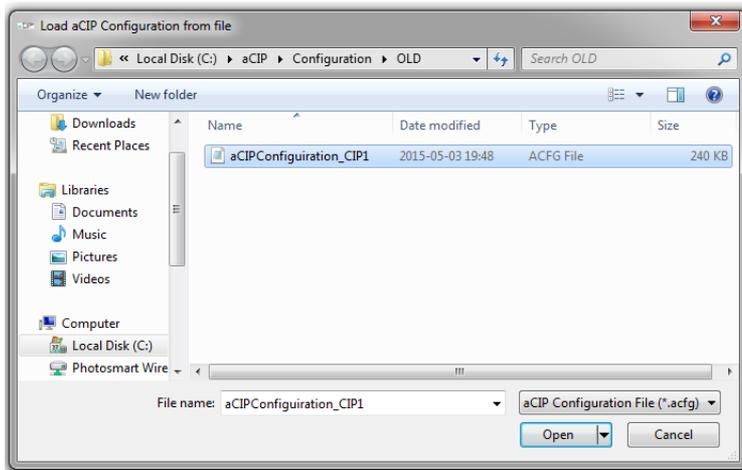
The screenshot shows a window titled "aCIP Configuration consistency check errors and warnings". The window contains a table with the following columns: "Severity", "Sheet", "Row", and "Error". The table is grouped by "Severity" and shows 11 error entries, all with a severity of "Error" and a sheet name of "DetailViews". The errors are listed in rows 4 through 23. The error messages describe various data type and property inconsistencies, such as "DB_Column DataType is not string so IsMultiLineText must be empty" and "Category is DataField so IsReadOnly must be FALSE or TRUE".

Severity	Sheet	Row	Error
Error	DetailViews	4	DB_Column DataType is not string so IsMultiLineText must be empty.ReportTemplate Must be corrected!
Error	DetailViews	5	DB_Column DataType is not string so IsMultiLineText must be empty.ReportStartElementType Must be corrected!
Error	DetailViews	5	Category is DataField so IsReadOnly must be FALSE or TRUE. Must be corrected!
Error	DetailViews	6	DB_Column DataType is not string so IsMultiLineText must be empty.ReportStartElement Must be corrected!
Error	DetailViews	16	DB_Column DataType is not string so IsMultiLineText must be empty.CxxBigInt01 Must be corrected!
Error	DetailViews	17	DB_Column DataType is not string so IsMultiLineText must be empty.CxxDateTime01 Must be corrected!
Error	DetailViews	18	DB_Column DataType is not string so IsMultiLineText must be empty.CxxDateTime02 Must be corrected!
Error	DetailViews	19	DB_Column DataType is not string so IsMultiLineText must be empty.CxxDateTime03 Must be corrected!
Error	DetailViews	20	DB_Column DataType is not string so IsMultiLineText must be empty.CxxDateTime04 Must be corrected!
Error	DetailViews	21	DB_Column DataType is not string so IsMultiLineText must be empty.CxxDateTime05 Must be corrected!
Error	DetailViews	23	Category is RelationColumn so IsMultiLineText, MaxHeight, DTFormatString, StrMin, StrMax, IntMin and IntMax must be empty.

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...

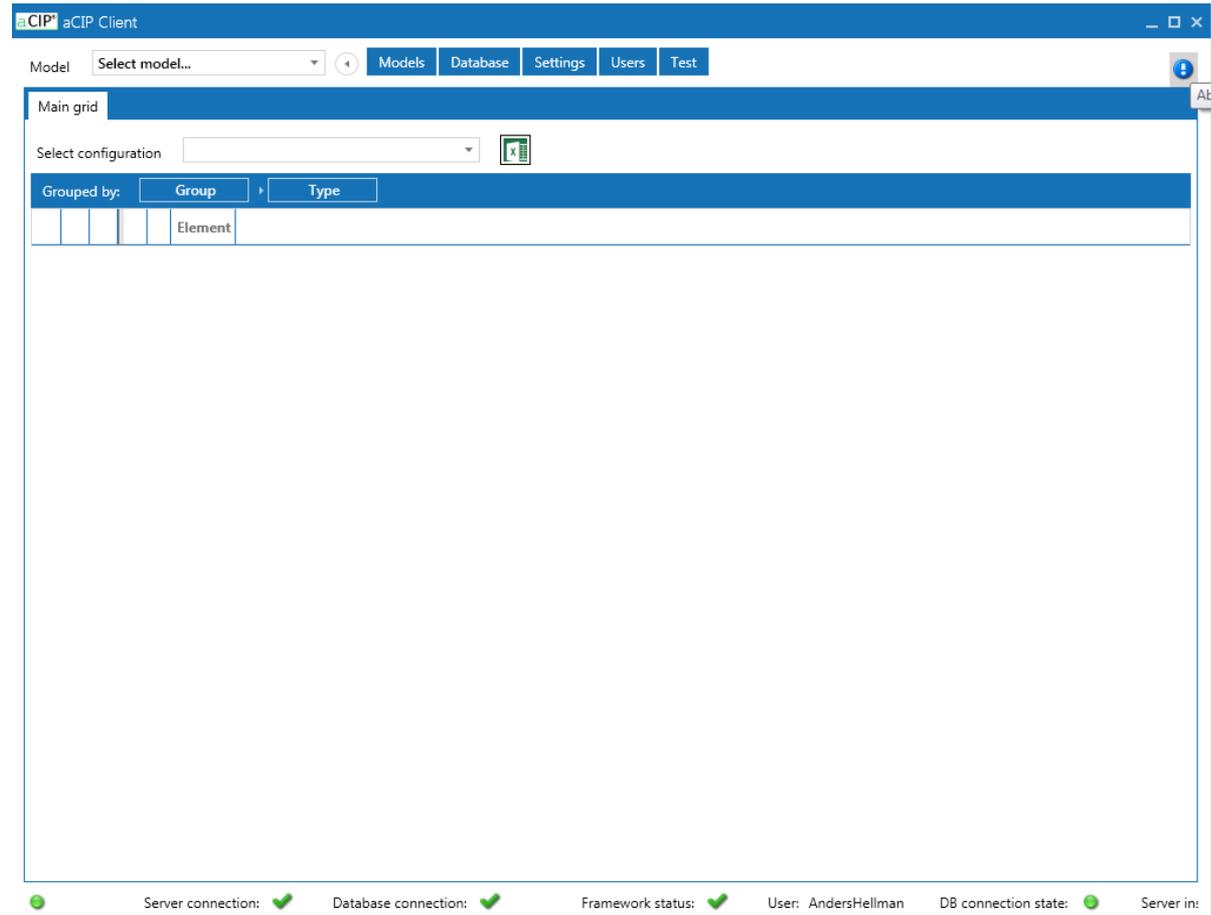
Successfully saved 460 DetailsViews!

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

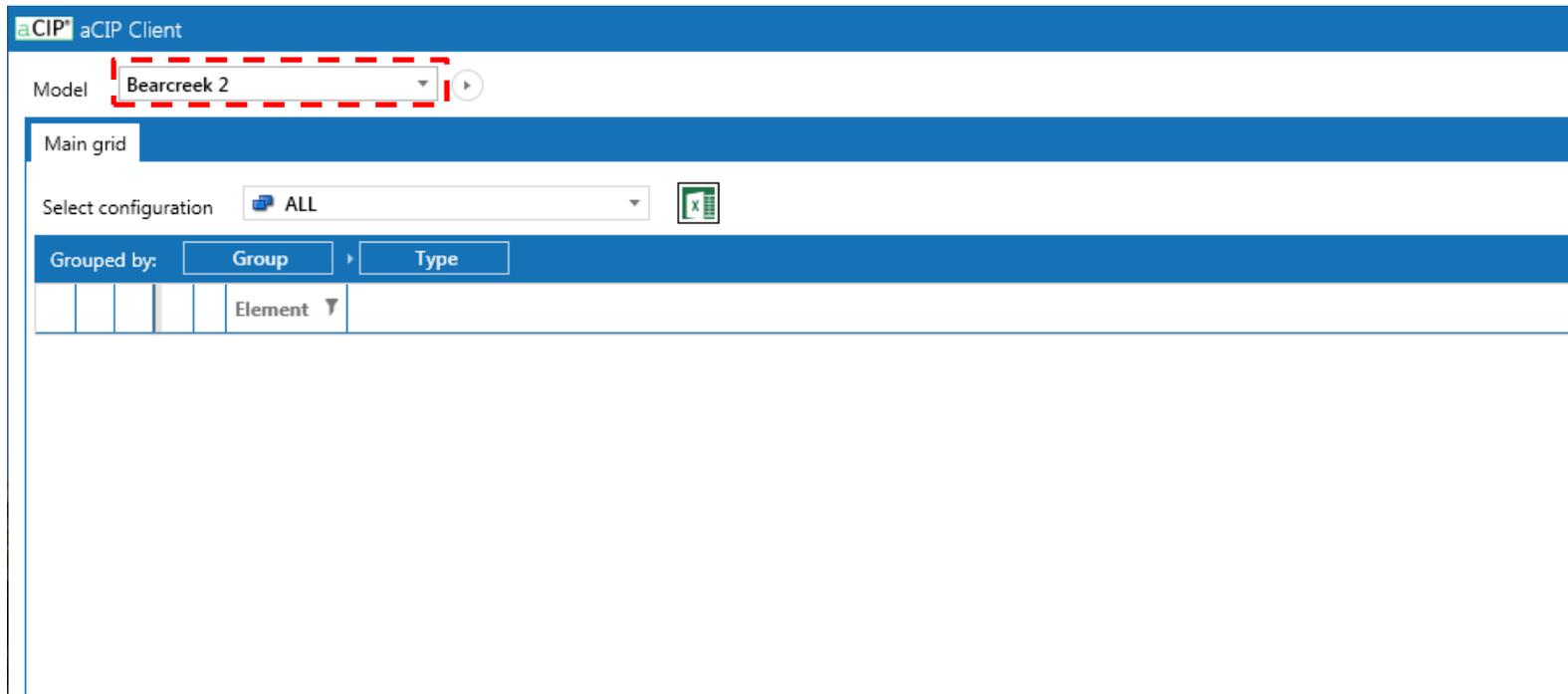
The screenshot shows the 'aCIP Client' interface. At the top, there is a navigation bar with 'Models', 'Database', 'Settings', 'Users', and 'Test' buttons. Below this is a 'Main grid' section with a 'Select configuration' dropdown and a 'Grouped by:' section with 'Group' and 'Type' buttons. The main content area displays a table with one visible row: 'Element'. A modal dialog titled 'Add, modify or delete model' is open, showing a form with the following fields:

Name	Bearcreek 2
CreatedBy	
CreatedWhen	Enter date
ChangedBy	
ChangedWhen	Enter date
FrameworkName	CIP1
FrameworkID	94873098
FrameworkVersion	1.2.0
ConfigurationName	CIP1_BearcreekNuclear
ConfigurationID	12131415
ConfigurationVersion	1.0.0

The 'FrameworkName' field is highlighted with a red dashed box. At the bottom of the dialog, there are 'Add new...' and 'Delete...' buttons.

Step 5.3

Select your new model

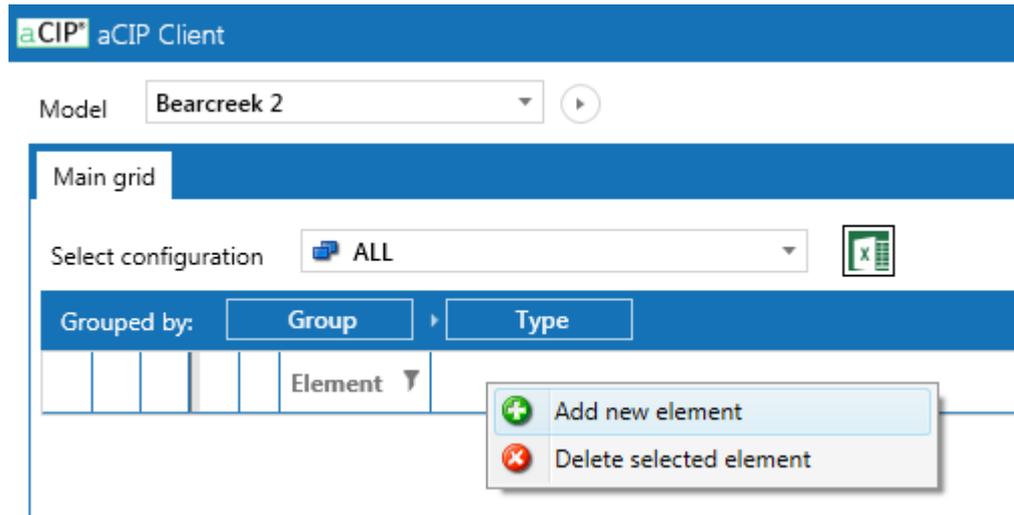


The screenshot displays the aCIP Client interface. At the top, the title bar reads "aCIP Client". Below it, the "Model" dropdown menu is highlighted with a red dashed box and contains the text "Bearcreek 2". To the right of the dropdown is a play button icon. Below the "Model" section is a "Main grid" header. Underneath, there is a "Select configuration" dropdown menu set to "ALL" with a printer icon to its right. Below that, there are two buttons labeled "Group" and "Type" under the heading "Grouped by:". At the bottom, there is a table header with a column labeled "Element" and a downward arrow.

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

The image displays two sequential screenshots of a software dialog box titled "Add new element".

Left Screenshot:

- Title:** Add new element
- Name of new element:** NewElement 2015-05-05 21:00:56
- Select element type...:** A dropdown menu is open, showing a list of element types: Report, Matrix, Stakeholder, Objective, RequirementDocument (highlighted), RequirementCollection, Requirement, Configuration, and OrganisationItem.

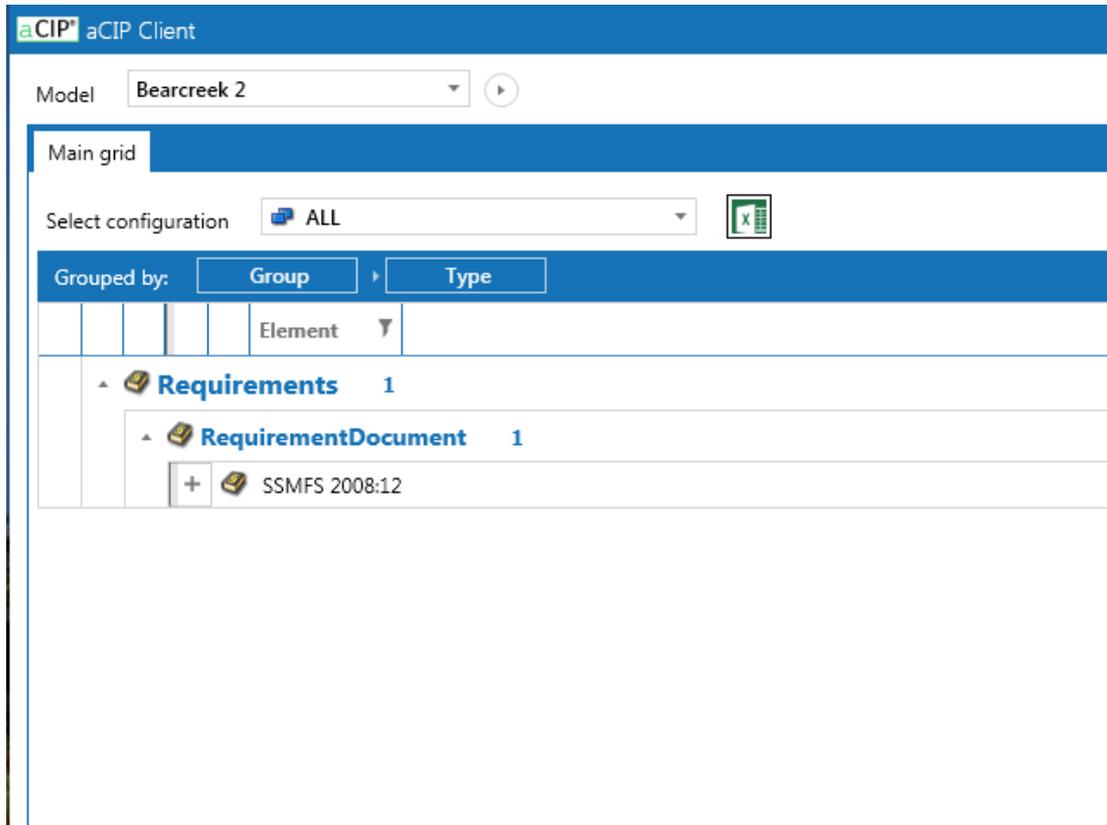
Right Screenshot:

- Title:** Add new element
- Name of new element:** SSMFS 2008:12
- RequirementDocument:** The dropdown menu is closed, and "RequirementDocument" is displayed in the field.
- Buttons:** "Add" and "Cancel" buttons are visible at the bottom.

Step 5.5

Create your first elements

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



The screenshot shows the aCIP Client interface. At the top, the title bar reads "aCIP Client". Below it, a "Model" dropdown menu is set to "Bearcreek 2". The main area is titled "Main grid" and contains a "Select configuration" dropdown menu set to "ALL". Below this, there are two buttons labeled "Group" and "Type". The main grid displays a tree view of elements:

- Requirements 1
 - RequirementDocument 1
 - + SSMFS 2008:12

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.

The screenshot displays the aCIP Client interface. At the top, the 'Model' is set to 'Bearcreek 2'. Below this, the 'Main grid' section shows a 'Select configuration' dropdown set to 'ALL'. The 'Grouped by' section is set to 'Group' and 'Type'. The main content area shows a tree view with 'Requirements' (1) expanded to 'RequirementDocument' (1), which is further expanded to 'SSMFS 2008:12'. The details view for 'SSMFS 2008:12' is shown, featuring a 'Details' tab and a 'Reports' tab. The 'Details' tab contains a form with the following fields: 'Name' (SSMFS 2008:12), 'Code', 'Customer code', 'Descriptive name', 'Split complete' (dropdown), 'Valid from' (date field), 'Valid to' (date field), 'Status' (dropdown), and 'Type' (dropdown). A 'Set classification...' button and an 'Edit' button are also visible. The bottom of the details view shows 'Created by: E6530\AndersHellman 2015-05-05 21:04' and 'Last changed by: E6530\AndersHellman 2015-05-05 21:04'. To the right of the details view, there is a navigation bar with tabs for 'Information source', 'Chapters', 'Owner', 'Configurations', 'Issues', 'ToDo', and 'Audits'. Below this, a message says 'Drag a column header and drop it here to group by that column'. The main grid below this message has columns for 'Information sources' and 'Type'.

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.

The screenshot displays the aCIP Client interface. At the top, the 'Model' is set to 'Bearcreek 2'. Below this, the 'Main grid' section shows a 'Select configuration' dropdown set to 'ALL'. The 'Grouped by' section is set to 'Group' and 'Type'. The main content area shows a tree view with 'Requirements' expanded to 'RequirementDocument' (1), which is further expanded to 'SSMFS 2008:12'. The 'Details' tab is active, showing a form for editing the document. The 'Open' dropdown menu is open, showing options: 'Not set', 'Open', 'Internal', 'Commercial in confidence', 'Secret', and 'Top secret'. The 'Valid from' field is set to '2008-01-01', 'Valid to' is 'Enter date', 'Status' is 'Real', and 'Type' is 'Source'. The 'Created by' and 'Last changed by' fields are both set to 'E6530\AndersHellman' with timestamps. The 'Information source' tab is also visible, showing a table with columns 'Information sources' and 'Type'.

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".

The screenshot displays the aCIP Client interface. At the top, the window title is "aCIP Client" and the model is "Bearcreek 2". The main grid shows a "Requirements" section with a "RequirementDocument" tab. The document details are visible, including the name "SSMFS 2008:12", code "101", and descriptive name "SSM's föreskrifter om fysiskt skydd". The "Split complete" field is highlighted in red with the value "No".

On the right side, a context menu is open over the "Information sources" tab. The menu options are:

- ➕ Add new element
- ➕ Add relation to existing element
- ✖ Remove selected element from relation
- ✖ Delete selected element

A red arrow points to the "Add new element" option. The main grid also shows a "Type" column header and a "Drag a column header and drop it here to group by that column" instruction.

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".

The screenshot shows the aCIP Client interface. The main grid displays a list of elements, with 'RequirementDocument' selected. The details pane for 'SSMFS 2008:12' is visible, showing fields for Name, Code, Customer code, Descriptive name, Split complete, Valid from, Valid to, Status, and Type. The 'Add new element' dialog box is open, showing the 'Name of new element' field with 'SSMFS 2008:12' and the 'Select element type...' dropdown menu with 'ReferenceDocument' selected. The 'Add' button is highlighted.

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.

The screenshot displays the aCIP Client interface. At the top, the 'Model' is set to 'Bearcreek 2'. The 'Main grid' shows a list of elements grouped by 'Type'. The 'Requirements' group is expanded, showing a 'RequirementDocument' element named 'SSMFS 2008:12'. The details for this document are visible, including its name, code (101), and descriptive name. A new 'ReferenceInformation' group is also visible, containing a new 'ReferenceDocument' element named 'SSMFS 2008:12'. This new element is highlighted with a red dashed box. The interface also shows a table with columns for 'Information sources' and 'Type', with a red dashed box around the 'Information sources' column header and the new 'SSMFS 2008:12' entry.

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.

The screenshot displays two overlapping windows from a software application. The top window, titled 'Requirements 1', shows the 'RequirementDocument' detail view for 'SSMFS 2008:12'. The 'Information source' context is selected in the top navigation bar. The details panel on the left shows fields for Name, Code, Customer code, Descriptive name, Split complete, Valid from, Valid to, Status, and Type. The bottom window, titled 'ReferenceInformation 1', shows the 'ReferenceDocument' detail view for the same 'SSMFS 2008:12' element. The 'Source to' context is selected in its top navigation bar. The details panel on the left shows fields for Name, Type, Category, Code, and Customers code. Both windows have a table on the right side with a single row for 'SSMFS 2008:12'.

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"

The screenshot displays the aCIP Client interface. On the left, a 'Details' panel for a 'RequirementDocument' is visible, showing fields for Name (SSMFS 2008:12), Code (101), Descriptive name (SSM's föreskrifter om fysiskt skydd), Valid from (2008-01-01), Valid to (Enter date), Status (Real), and Type (Source). The 'Split complete' field is highlighted in red with the value 'No'. On the right, a table with columns 'Information sources' and 'Type' is shown. A context menu is open over the table, listing four options: 'Add new element', 'Add relation to existing element', 'Remove selected element from relation', and 'Delete selected element'. A red arrow points to the 'Add relation to existing element' option. The top of the interface shows the 'Model' set to 'Bearcreek 2' and a 'Main grid' section with a 'Select configuration' dropdown set to 'ALL'.

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"

The screenshot displays the aCIP Client interface for the 'Bearcreek Nuclear' model. The main grid shows a list of elements under the 'Fulfilled by' relation. The 'Details' pane on the left shows the configuration for 'Bevakningspersonal för att hantera intrång'. The 'Fulfilled by' relation is currently empty. A context menu is open over the 'Bevakning' element in the 'Processes' list, with the option 'Add selected element to relation' highlighted. A red dashed box highlights the 'Fulfilled by' header and the context menu.

You've just built your first aCIP®-model



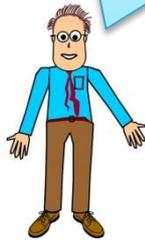
And what was the point with that?

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.



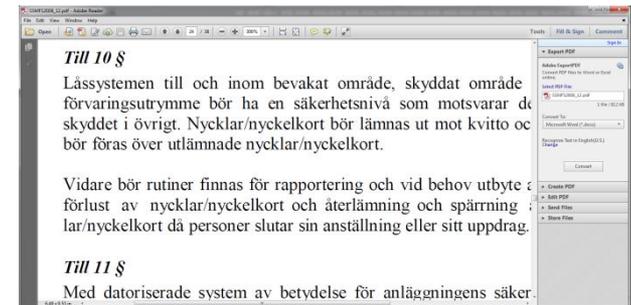
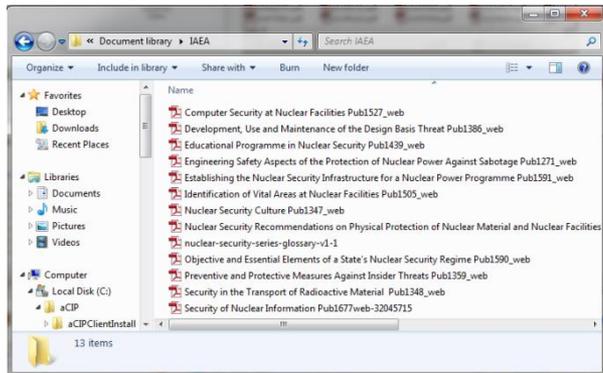
The visitor management computer in the main entrance has gone nuts. Who can help me?



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?



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?



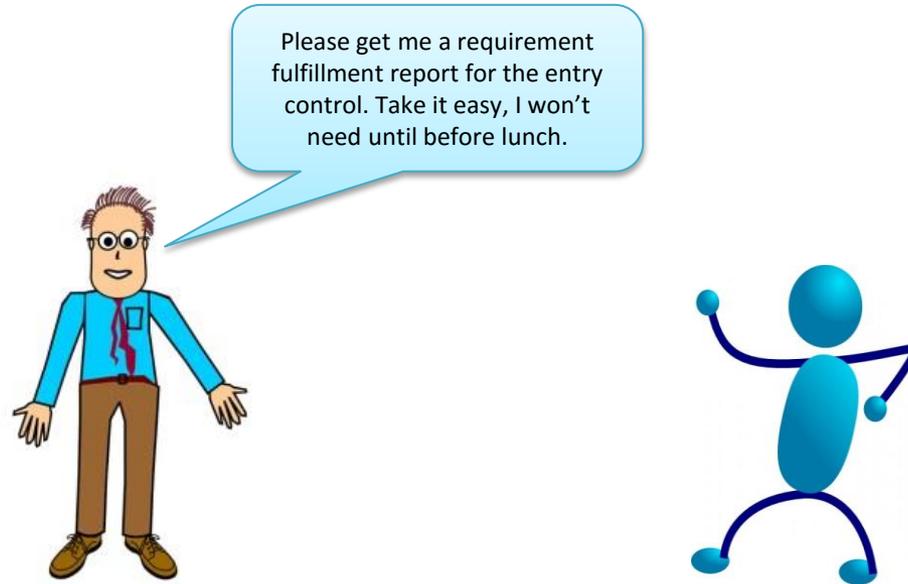
The camera behind pier 3 is broken. Why is it there? Can I remove it?



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.

The screenshot shows the aCIP Client interface. At the top, the title bar reads "aCIP® aCIP Client". Below it, a "Model" dropdown menu is set to "Bearcreek Nuclear". The main area is titled "Main grid". On the left, there is a "Grouped by:" dropdown menu. In the center, a "Select configuration" dropdown menu is open, showing options: "ALL", "AsIs", "Med SSMFS2016:12 Alt 1", and "Med SSMFS2016:12 Alt 2". To the right of this menu is an Excel icon. Below the configuration menu, there are three expandable sections: "Reports", "Stakeholders 3", and "Objectives 5".

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.



The screenshot displays the aCIP Client interface for the 'Bearcreek Nuclear' model. The main grid shows a list of reports, with '003.A Unified requirement list' selected. The details view for this report is open, showing a 'Secret' status and an 'Open this report' button. The report details include:

- Name: 003.A Unified requirement list
- Header: 003.A Unified requirement list
- Report template: 003.A Unified requirement list
- Start element type: RequirementDocument
- Start element: 3.A Unified requirement list
- Description: (Empty text area)

Metadata for the report:

- Created by: E6530\AndersHellman 2015-01-13 08:52
- Last changed by: E6530\AndersHellman 2015-01-13 08:55

The interface also shows a list of related elements, including 'Bearcreek Nuclear Executive Management'. The bottom of the screen shows navigation options for Stakeholders (3) and Objectives (5).

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.

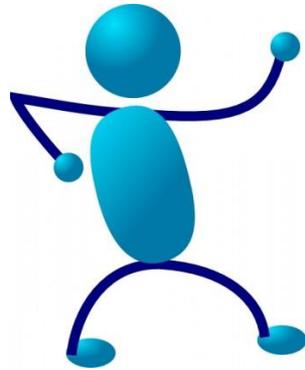


The screenshot shows the aCIP Client interface with the '003.A Unified requirement list' open. A print dialog box is overlaid on top, showing printer selection options (HP Photosmart Wireless B109n-z), page range (All), and number of copies (1). The background shows the requirement list with columns for ID, description, source, and fulfillment status.

The screenshot shows a detailed view of the requirement fulfillment report for '003.A Unified requirement list' in the 'Bearcreek Nuclear' model. The report lists various requirements with their fulfillment status (Fully, Partly, None, Not relevant, Not set / Unknown) and source codes. A 'Secret' classification label is visible at the bottom of the report area.

Unified code	Requirement	Source	Fulfillment
X01.101.001	Ständigt ansvarig bevakningsledning på plats Tillståndshavaren ska se till att det vid en anläggning ständigt finns ansvarig arbetsledning.	002.011.001 SSMFS 2008:12	9
X01.101.002	Ständigt bevakningspersonal på plats Tillståndshavaren ska se till att det vid en anläggning ständigt finns särskilt utbildad personal för bevakning (bevakningspersonal).	002.011.002 SSMFS 2008:12	9
X01.101.003	Bevakningspersonal för behörighetskontroll Det ska finnas bevakningspersonal i det antal som behövs för att kunna kontrollera behörigheten hos de personer som vistas inom anläggningen.	002.011.003 SSMFS 2008:12	9
X01.101.004	Bevakningspersonal för införselkontroll Det ska finnas bevakningspersonal i det antal som behövs för att kunna kontrollera att föremål som förtecknats enligt 1.1 punkten 3 inte tas in i anläggningen.	002.011.004 SSMFS 2008:12	9
X01.101.005	Bevakning dygnet runt Bevakningsstyrka skall finnas på plats på anläggningen dygnet runt.	999.001.001 ADTR-2015	Bevakning
X01.101.006	Bevakningsstyrka: bemanning Bevakningsstyrkan skall ha kapacitet att hantera inpasseringskontroll, utförselkontroll och larmutryckningar och bestå av minst 10 personer vid varje tillfälle.	999.001.002 ADTR-2015	Bevakning
X01.101.007	Bevakningsstyrka: kompetens All personal i bevakningsstyrka skall vara godkända skyddsvakter.	999.001.003 ADTR-2015	Bevakning

Example 2



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



Example 2



Backwards requirement tracing

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

The screenshot shows the aCIP Client interface. At the top, the title bar reads "aCIP Client". Below it, a "Model" dropdown menu is set to "Bearcreek Nuclear". The main area is titled "Main grid" and contains a "Select configuration" dropdown set to "ALL". A context menu is open over the "Main grid" area, showing two options: "Open element type grid" and "Open special grid". Below the menu, there are two buttons labeled "Group" and "Type". The main grid itself is a table with a header "Element" and a list of categories: Reports (7), Stakeholders (3), Objectives (5), Requirements (107), and Confiurations (3).

Element
▼ Reports 7
▼ Stakeholders 3
▼ Objectives 5
▼ Requirements 107
▼ Confiurations 3

Example 2

Backwards requirement tracing

- Select "SystemComponent"



The screenshot displays the aCIP Client interface for the 'Bearcreek Nuclear' model. The main grid is grouped by 'Type' and shows a list of elements under 'Requirements' (107). A context menu is open over the 'Requirements' group, with options 'Open element type grid' and 'Open special grid'. A secondary window titled 'Add new Element type grid' is open, showing a list of element types with 'SystemComponent' selected.

Grouped by:	Group	Type
		Element
▼	Reports	7
▼	Stakeholders	3
▼	Objectives	5
▼	Requirements	107
▼	Confiarations	3

Secondary window: Add new Element type grid

Select element type...
OperationalMode
TechnicalSystem
SystemComponent
PieceOfEquipment
Products
Hardware
Software
Manufacturer
Supplier

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

aCIP® aCIP Client

Model:

Main grid: SystemComponent grid

Select configuration:

Drag a column header and drop it here to group by that column

	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

The screenshot shows the aCIP Client interface. At the top, the model is set to "Bearcreek Nuclear". Below that, the "Main grid" tab is active, showing a "SystemComponent grid". The "Select configuration" dropdown is set to "ALL". A blue bar above the table reads "Drag a column header and drop it here to group by that column".

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

A filter dialog box is open over the "Name" column header. It contains a list of checkboxes for each component name. Below the list, the "Show rows with value that" section is set to "Contains" with the search term "PIR3" entered in the text box. The "And" operator is selected, and the "Is equal to" option is also visible. "Filter" and "Clear Filter" buttons are at the bottom.

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"

The screenshot displays the aCIP Client interface. At the top, the model is set to "Bearcreek Nuclear". The main grid shows a list of components, with "Kamera 4 (baksidan PIR3)" selected. The details view for this component is open, showing its name, description, and metadata. The "Fulfills requirements" tab is highlighted with a red dashed box, indicating the current view. The interface also shows a navigation bar with various tabs like "Composition", "Locations", "Configurations", etc.

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

The screenshot displays the aCIP Client interface. At the top, the window title is "aCIP Client" and the model is "Bearcreek Nuclear". The main grid shows a "System component grid" with a configuration of "ALL". A table lists components, with "Kamera 4 (baksidan PIR3)" selected. The details view for this component is open, showing its name and description. Below the details, a table titled "Fulfills requirements" is visible, listing requirements that justify the camera's existence. Two requirements are highlighted with a red dashed box:

	Code	Fulfills requirement
+ [i]	002.011.033	Skyddat område: verifiering
+ [i]	002.011.040	Inre förvaringsutrymme: verifiering

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.

The screenshot displays the aCIP Client interface. At the top, the 'Model' is set to 'Bearcreek Nuclear'. The 'Main grid' shows a list of components, with 'Kamera 4 (baksidan PIR3)' selected. The 'Details' pane for this component shows its name, description, and creation information. The 'Component in system' pane shows a table of components, with 'Skyddat område: verifiering' selected. The 'Fulfilled by' pane shows a table of components, with 'Kamera 4 (baksidan PIR3)' and 'Kamera 5 (framsidan PIR3)' highlighted. The 'Part of chapter' tab is selected in the 'Fulfilled by' view. The status bar at the bottom shows various connection and user information.

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

The screenshot displays the aCIP Client interface for the 'Bearcreek Nuclear' model. The main grid shows a table of components, with 'Kamera 4 (baksidan PIR3)' selected. The 'Fulfills requirements' button is highlighted with a red dashed box. The details pane for 'Skyddat område: verifiering' shows various fields like Name, Code, and Original text. The bottom pane shows details for 'Åtgärder kategori 1: Skydd av anläggningen', with the 'Part of requirement document' button highlighted by a red dashed box. The status bar at the bottom indicates successful connections and user information.

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.

The screenshot shows the aCIP Client interface with the following components:

- Main grid:** Shows a tree view with "Locations" expanded to "PIR3".
- Details:** Shows the details for "PIR3" with fields for Name, Street address, Zip, City, Country, Latitude, Longitude, and Altitude.
- Components:** Shows a list of system components for "PIR3", including "Kortläsare 15 (dörr 3:8)", "Kortläsare 14 (dörr 3:7)", "Kortläsare 13 (dörr 3:6)", "Kortläsare 12 (dörr 3:5)", "Kamera 5 (framsidan PIR3)", and "Kamera 4 (baksidan PIR3)".
- Component in system:** Shows a table of components with columns for Code and Fullfills requirement.

Code	Fullfills requirement
002.011.033	Skyddat område: verifiering
002.011.040	Inre förvaringsutrymme: verifiering

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

Model: Bearcreek Nuclear

Main grid | Requirement grid

Select configuration: ALL

Drag a column header and drop it here to group by that column

	Name	Code	Unified code	Page in document	Consultant approval	Customer approval	Category	Follow decision	Fulfilled	Created by	Created when	Last changed by
+	Bevakningscentral: funktion larmövervakning	002.011.016		10			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: funktion loggning	002.011.017		10			Requirement	Follow	Partly	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: funktion tillträdeskontroll	002.011.020		10			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: funktion utlamning	002.011.018		10			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: intrångsdetektering	002.011.013		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: reservkraft	002.011.021		10			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: tillräde	002.011.014		9			Requirement	Follow	Fully	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: utformning	002.011.012		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: överfallslarm	002.011.015		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningspersonal för att hantera intrång	002.011.007		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningspersonal för behörighetskontroll	002.011.003	X01.101.003	9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningspersonal för införselkontroll	002.011.004	X01.101.004	9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningspersonal för kontroll av fysiskt skydd	002.011.005		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningspersonal för larmverifiering	002.011.006		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningsstyrka: bemanning	999.001.002	X01.101.006				Requirement	Follow	Fully	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Bevakningsstyrka: kompetens	999.001.003	X01.101.007				Requirement	Follow	None	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Förordning (1990:1334) om skydd för samhällsviktiga anläggningar m.m skall följas	002.011.010		9			Requirement	Follow	Separate requirement document	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Förstärkning av bevakningspersonal	002.011.008		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Inre förvaringsutrymme: belägenhet	002.011.036		10			Recommendation	Follow	Fully	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: detektering	002.011.039		11			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: intrångsskydd	002.011.038		11			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: larmning	002.011.042		11			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: läsning	002.011.041		11			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: tillräde	002.011.043		11			Requirement	Follow	Fully	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: utformning	002.011.037		11			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: verifiering	002.011.040		11			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Lag (1990:217) om skydd för samhällsviktiga anläggningar m.m. skall följas	002.011.009		9			Requirement	Follow	Separate requirement document	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Lagen om kärnteknisk verksamhet (1984:3) 45	002.001.001			Not set	Not set	Requirement	Not decided	Not set	E6530\AndersHellman	2015-01-07	E6530\AndersHe
+	Områdesskydd: detektering	002.011.024		10	Not set	Not set	Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Områdesskydd: fordonshinder	002.011.028		10			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe

Server connection: ✓ Database connection: ✓ Framework status: ✓ User: AndersHellman DB connection state: Server instance: Database: DV refresh's made: 2828 IS refresh's made: 0

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/unordered.

The screenshot displays the aCIP Client interface. At the top, the window title is 'aCIP aCIP Client'. Below it, the 'Model' is set to 'Bearcreek Nuclear'. The main grid is titled 'Requirement grid'. A 'Select configuration' dropdown is set to 'ALL'. Below the grid header, there is a prompt: 'Drag a column header and drop it here to group by that column'. The grid contains several columns: Name, Code, Unified code, Page in document, Consultant approval, Customer approval, Category, Follow decision, Fulfilled, Created by, Created when, and Last changed by. The 'Fulfilled' column is highlighted in green, and a filter dropdown menu is open over it. The dropdown menu shows 'Select All' (checked), 'Fully', 'None', 'Not relevant', 'Not set', 'Partly', 'Separate requirement document', and 'Unknown'. Below the dropdown, there is a section for 'Show rows with value that' with three filter conditions: 'Is equal to', 'And', and 'Is equal to'. The 'Filter' and 'Clear Filter' buttons are at the bottom of the dropdown.

Name	Code	Unified code	Page in document	Consultant approval	Customer approval	Category	Follow decision	Fulfilled	Created by	Created when	Last changed by
+ Anslutning till bevakningscentral	002.011.011		9			Requirement	Follow	Fully	E6530/AndersHelln	1	E6530/AndersHelln
+ Bevakning dygnet runt	999.001.001	X01.101.005				Requirement	Follow	Fully	E6530/AndersHelln	2	E6530/AndersHelln
+ Bevakningscentral: bemanning	002.011.016		10	Fully	Unknown	Requirement	Follow	Fully	E6530/AndersHelln	11	E6530/AndersHelln
+ Bevakningscentral: tillträde	002.011.014		9			Requirement	Follow	Fully	E6530/AndersHelln	1	E6530/AndersHelln
+ Bevakningsstyrka: bemanning	999.001.002	X01.101.006				Requirement	Follow	Fully	E6530/AndersHelln	2	E6530/AndersHelln
+ Inre förvaringsutrymme: belägenhet	002.011.036		10			Recommendation	Follow	Fully	E6530/AndersHelln	12	E6530/AndersHelln
+ Inre förvaringsutrymme: tillträde	002.011.043		11			Requirement	Follow	Fully	E6530/AndersHelln	2	E6530/AndersHelln
+ Skyddat område: belägenhet	002.011.030		10			Requirement	Follow	Fully	E6530/AndersHelln	2	E6530/AndersHelln

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.

Drag a column header and drop it into the frame above to group by that column.

	Name	Code	Unified code	Page in document	Consultant approval	Customer approval	Category	Follow decision	Fulfilled	Created by	Created when	Last changed by
+	Bevakningscentral: funktion larmövervakning	002.011.016		10			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: funktion loggning	002.011.017		10			Requirement	Follow	Partly	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: funktion tillträdeskontroll	002.011.020		10			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: funktion utlamning	002.011.018		10			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: intrångsdetektering	002.011.013		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: reservkraft	002.011.021		10			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: tillräde	002.011.014		9			Requirement	Follow	Fully	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: utformning	002.011.012		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningscentral: överfallslarm	002.011.015		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningspersonal för att hantera intrång	002.011.007		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningspersonal för behörighetskontroll	002.011.003	X01.101.003	9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningspersonal för införelskontroll	002.011.004	X01.101.004	9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningspersonal för kontroll av fysiskt skydd	002.011.005		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningspersonal för larmverifiering	002.011.006		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Bevakningsstyrka: bemanning	999.001.002	X01.101.006				Requirement	Follow	Fully	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Bevakningsstyrka: kompetens	999.001.003	X01.101.007				Requirement	Follow	None	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Förordning (1990:1334) om skydd för samhällsviktiga anläggningar m.m skall följas	002.011.010		9			Requirement	Follow	Separate requirement document	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Förstärkning av bevakningspersonal	002.011.008		9			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Inre förvaringsutrymme: belägenhet	002.011.036		10			Recommendation	Follow	Fully	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: detektering	002.011.039		11			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: intrångsskydd	002.011.038		11			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: larmning	002.011.042		11			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: läsning	002.011.041		11			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: tillräde	002.011.043		11			Requirement	Follow	Fully	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: utformning	002.011.037		11			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Inre förvaringsutrymme: verifiering	002.011.040		11			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-12	E6530\AndersHe
+	Lag (1990:217) om skydd för samhällsviktiga anläggningar m.m. skall följas	002.011.009		9			Requirement	Follow	Separate requirement document	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Lagen om kärnteknisk verksamhet (1984:3) 45	002.001.001			Not set	Not set	Requirement	Not decided	Not set	E6530\AndersHellman	2015-01-07	E6530\AndersHe
+	Områdesskydd: detektering	002.011.024		10	Not set	Not set	Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe
+	Områdesskydd: fordonshinder	002.011.028		10			Requirement	Follow	Unknown	E6530\AndersHellman	2015-01-11	E6530\AndersHe

Server connection: ✓ Database connection: ✓ Framework status: ✓ User: AndersHellman DB connection state: Server instance: Database: DV refresh's made: 2828 IS refresh's made: 0

Filtering, sorting and grouping of lists

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

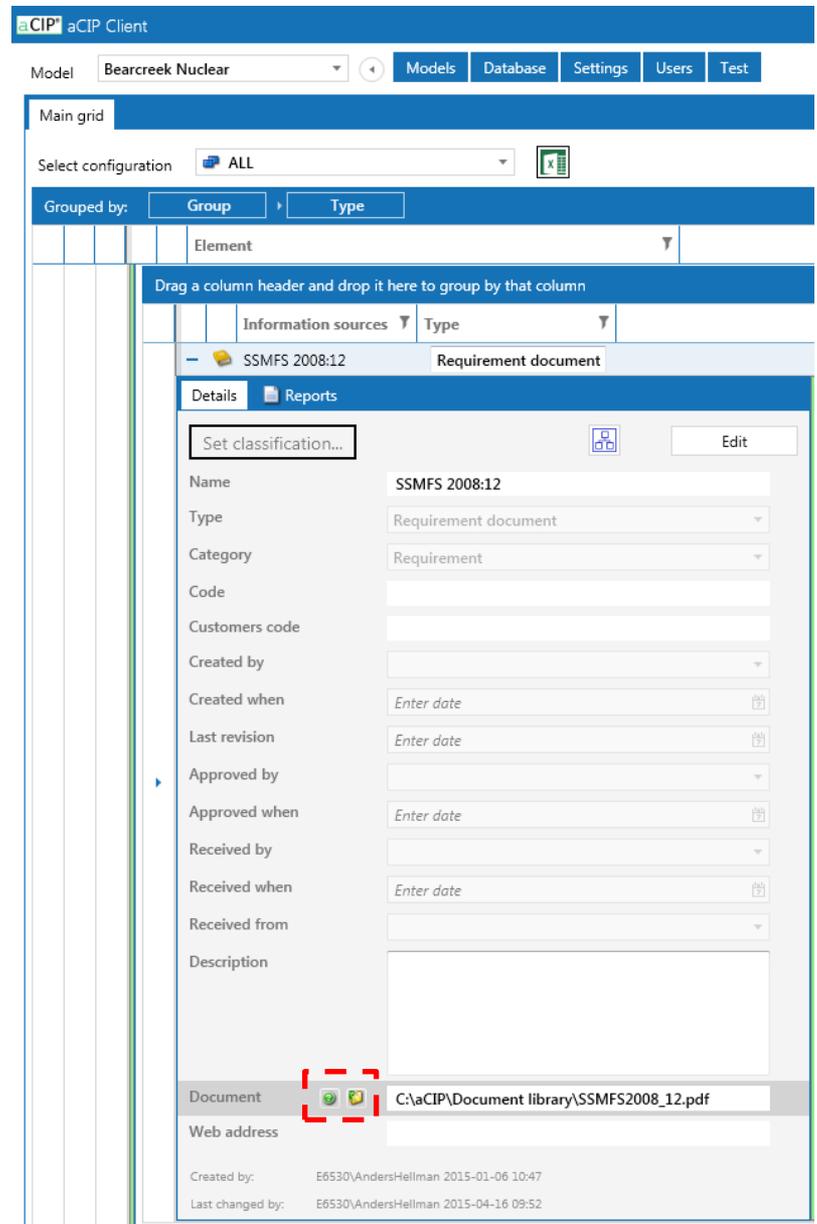
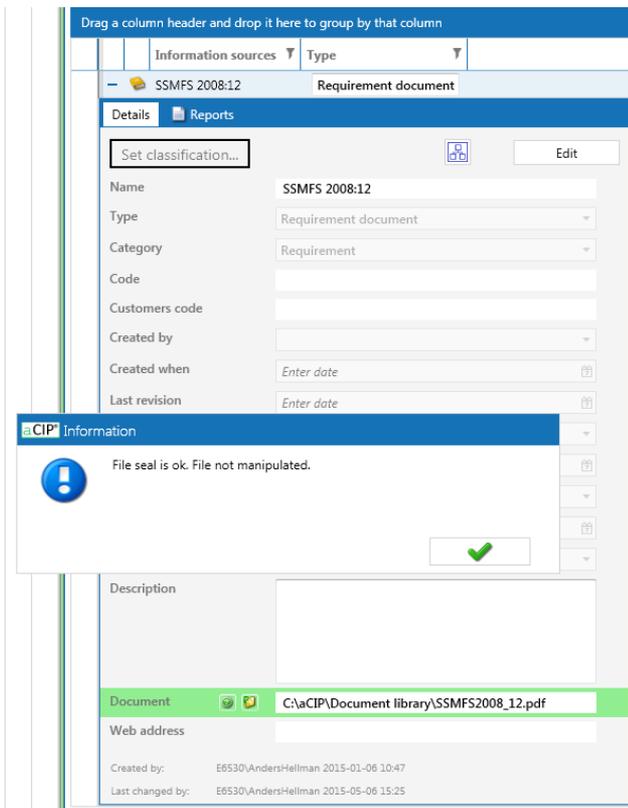
- The list is now grouped by the column "Fulfilled"

The screenshot shows the aCIP Client interface with the 'Main grid' tab selected. The 'Grouped by' dropdown is set to 'Fulfilled'. The table below displays requirements grouped into categories: Not set, None, Partly, Fully, Not relevant, and Unknown. The 'Fully' group is expanded, showing several requirements with their respective codes, page numbers, and fulfillment status.

	Name	Code	Unified code	Page in document	Consultant approval	Customer approval	Category	Follow decision	Created by	Created when	Last changed by	Last changed when
Not set												
None												
Partly												
	Bevakningscentral: funktion loggning	002.011.017		10			Requirement	Follow	E6530\AndersHellman	2015-01-11	E6530\AndersHellman	2015-01-13
	Skyddat område: sektionering	002.011.034		10			Requirement	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-01-12
	Skyddat område: skalskydd	002.011.031		10			Requirement	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-01-12
Fully												
	Anslutning till bevakningscentral	002.011.011		9			Requirement	Follow	E6530\AndersHellman	2015-01-11	E6530\AndersHellman	2015-04-16
	Bevakning dygnet runt	999.001.001	X01.101.005				Requirement	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-01-12
	Bevakningscentral: bemanning	002.011.016		10	Fully	Unknown	Requirement	Follow	E6530\AndersHellman	2015-01-11	E6530\AndersHellman	2015-05-05
	Bevakningscentral: tillträde	002.011.014		9			Requirement	Follow	E6530\AndersHellman	2015-01-11	E6530\AndersHellman	2015-04-21
	Bevakningsstyrka: bemanning	999.001.002	X01.101.006				Requirement	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-02-06
	Inre förvaringsutrymme: belägenhet	002.011.036		10			Recommendation	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-01-12
	Inre förvaringsutrymme: tillträde	002.011.043		11			Requirement	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-01-13
	Skyddat område: belägenhet	002.011.030		10			Requirement	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-01-12
Not relevant												
Unknown												
Separate requirement document												

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

The screenshot displays the aCIP Client interface. At the top, there is a blue header with the aCIP logo and the text 'aCIP Client'. Below this, a navigation bar contains buttons for 'Models', 'Database', 'Settings', 'Users', and 'Test'. The main area shows a document viewer for 'SSMFS2008_12.pdf'. The document content is as follows:

Strålsäkerhetsmyndighetens författningssamling

ISSN 2000-0987
Utgivare: Johan Strandman

Strålsäkerhetsmyndighetens föreskrifter om fysiskt skydd av kärntekniska anläggningar;¹ SSMFS 2008:12
Utkom från trycket den 30 januari 2009

beslutade den 19 december 2008.

Strålsäkerhetsmyndigheten föreskriver följande med stöd av 20 a och 21 §§ förordningen (1984:14) om kärnteknisk verksamhet.

Tillämpningsområde och definitioner

1 § Dessa föreskrifter gäller åtgärder som krävs för att dels skydda kärntekniska anläggningar mot obehörigt intrång, sabotage eller annan sådan påverkan som kan medföra radiologisk olycka dels för att förhindra obehörig befattning med kärnämne eller kärnavfall, s.k. fysiskt skydd. Föreskrifterna omfattar bestämmelser om tekniska, organisatoriska och administrativa åtgärder.

Föreskrifterna tillämpas på följande typer av kärntekniska anläggningar, för vilka tillstånd till kärnteknisk verksamhet är beslutade med stöd av 5 § lagen (1984:3) om kärnteknisk verksamhet:

- kärnkraftsreaktor,
- forsknings- eller materialprovningsreaktor,
- anläggning för slutlig förvaring av kärnämne eller kärnavfall som inte slutligt har förslutits,
- anläggning för hantering, bearbetning eller lagring av kärnämne,
- anläggning för hantering, bearbetning eller lagring av kärnavfall.

Föreskrifterna gäller dock inte för anläggningar för markdeponering av lågaktivt kärnavfall enligt 16 § förordningen (1984:14) om kärnteknisk verksamhet.

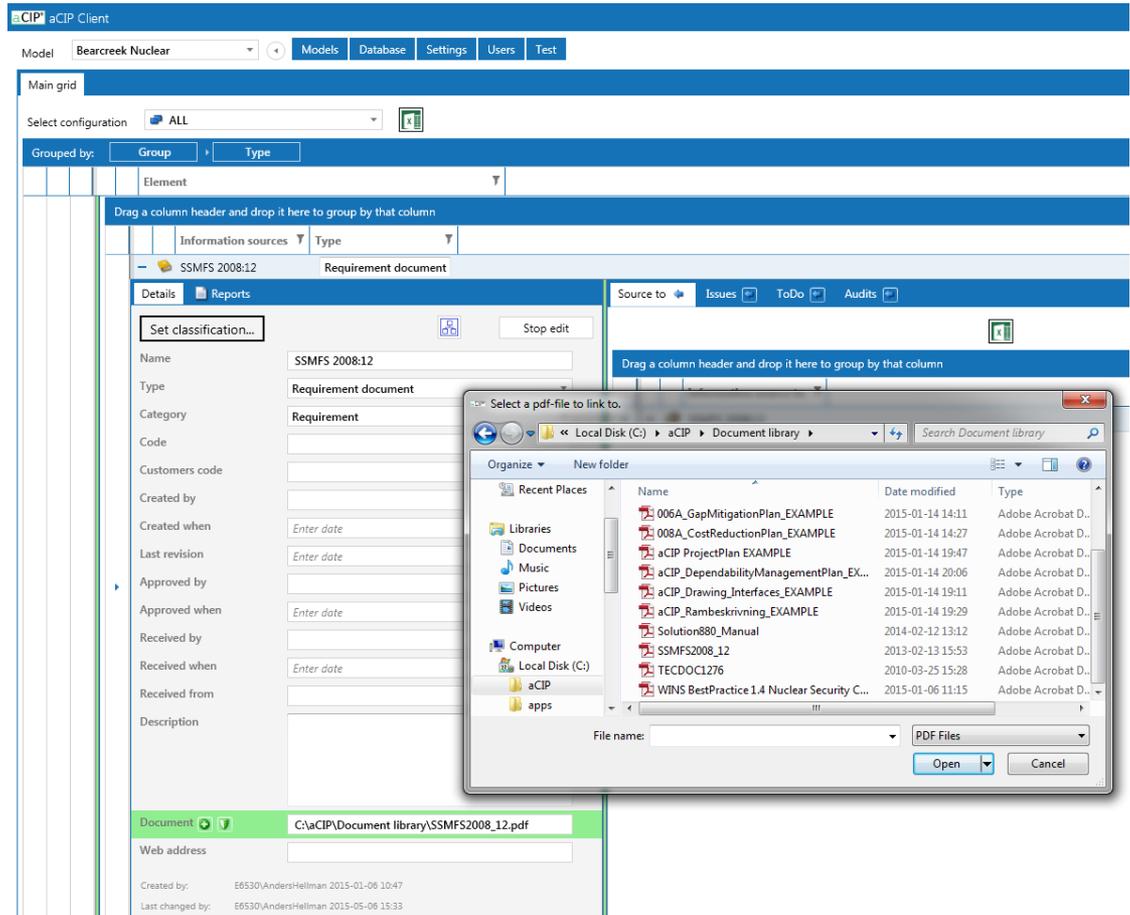
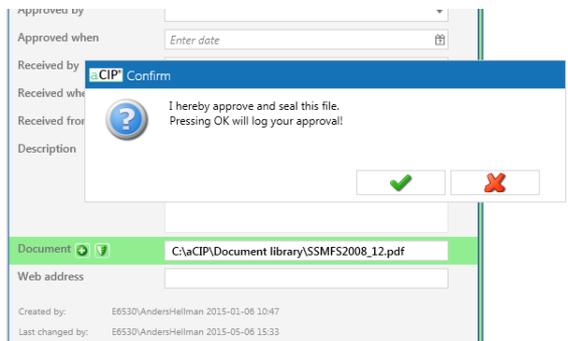
Grundläggande bestämmelser som rör fysiskt skydd finns i 4 § lagen (1984:3) om kärnteknisk verksamhet. Ytterligare bestämmelser finns i Strålsäkerhetsmyndighetens föreskrifter (SSMFS 2008:1) om säkerhet i kärntekniska anläggningar och Strålsäkerhetsmyndighetens föreskrifter (SSMFS 2008:17) om konstruktion och utförande av kärnkraftsreaktorer.

2 § Med *kärnteknisk anläggning*, *kärnämne*, *kärnavfall*, *lagring* och *slutförvaring* avses i dessa föreskrifter detsamma som anges i 2 § lagen (1984:3) om kärnteknisk verksamhet.

¹ Dessa föreskrifter och allmänna råd har tidigare kungjorts i Statens kärnkraftinspektionens författningssamling (SKIFS 2005:1).

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

The screenshot displays the aCIP project management software interface. The main grid shows a project hierarchy for 'Centrala system' with columns for WBS, Moment, Status, Kalkylstatus, Krävd start, Beräknad start, Faktisk start, Krävt avslut, Beräknat avslut, and Faktiskt avslut. A details panel on the left shows project information for '1200.110.120 Inköp'. A cost breakdown panel on the right shows a list of costs categorized by 'Resurs' and 'Inköp', including items like '01 - Inköp' (900 SÄK), '11 - Servrar * 2 Larmrouting' (200 000 SÄK), and '81 - F&S&S Windows Server * 6' (18 000 SÄK).

Aggregate service: FW status: Thread usage: 3 Available memory: 2 606 MB User: AndersHellman Level: User Mode: Multi Connection name: Projekt 5 Server instance: E6530 Database: aCIP_DB6 FW: PrS Config: PrSCfg aCIP Version: Unpublished (DEBUG)

Project management

- Resource needs over time

aCIP Client

Model: **Projekt S** Konfiguration: **ALL**

Main grid **Moment** **Resurstyp**

Drag a column header and drop it here to group by that column

Resurstyp	Kostnad (SEK/h)
+ Säk - Installatör	600
+ Säk - Projektledare	1 000
- Säk - Systemintegratör	900

Behov Tillgänglighet

Grouped by: **Typ**

Projekt	Delprojekt	Moment	Benämning	Pris/st (SEK)	16Q1	16Q2	16Q3	16Q4	17Q1	17Q2	17Q3	17Q4	IQ+	DQ+
Resurs 5														
+ Projekt S	Centrala system	Konfiguration & driftsättning	01 - Konfiguration & driftsättning	900				300						
+ Projekt S	Centrala system	Systemintegration	01 - Systemintegratör	900		100	450	450	450	450	240	240	480	
+ Projekt S	Centrala system	Dokumentation	02 - Manualer	900					200	40				

Project management

Example report project calculation:

Projekt

Kalkylsammansättning

Kostnader (kSEK)

WBS	Delprojekt	Start*	Slut*	2016				2017				Totalt		
				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)

Kostnadsställe	2016				2017				Totalt					
	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	Trolig utfalls- 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	2016-09-15	50 %	400	1 000	200
							2 125	311

Projekt

Kalkylsammansättning

Resursbehov (h)

Resurstyp	2016				2017				Totalt ->2017	IQ+	DQ+
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
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)

Resurstyp	2016				2017				Totalt ->2017	IQ+	DQ+
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
?	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

Kalkylsammansättning

Fördelning driftskostnadskategorier (kSEK)

Resurstyp	2016				2017				Totalt		
	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

Drag a column header and drop it here to group by that column

	▼ Namn	▼ Telefon	▼ E-post	▼ Typ	▼ Status	▼ Datum
+	Christer	73	riste	Granskning	Tyst godkännande	2015-10-22
+	Jan	56	jan.u	Granskning	Godkänt med kommentarer	2015-10-14
+		17	r.for	Granskning	Tyst godkännande	2015-10-22
+	o	43	mo.	Granskning	Godkänt med kommentarer	2015-10-14
+	lers	42	ders	Granskning	Godkänt	2015-10-22
+	la	29	na.h	Granskning	Godkänt	2015-10-14
+	reger	83	eger	Granskning	Tyst godkännande	2015-10-22
+	we	16	ve.jo	Granskning	Tyst godkännande	2015-10-22
+	en	37	ngen	Granskning	Tyst godkännande	2015-10-22
+	Eric	08	ri-eri	Godkännande	Godkänt	2015-10-26
+	nders	40	ders	Granskning	Avböjt	2015-10-16
+	n-Pierre	35	an-p	Granskning	Tyst godkännande	2015-10-22
+	us	29	mp	Granskning	Tyst godkännande	2015-10-22

Configuration of external systems

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

The screenshot displays the aCIP configuration interface. On the left, a tree view shows a hierarchy: 'Rum 5' (expanded) containing rooms 8009, 8043, and 8075. Below this, a 'Details' panel for room 8075 shows fields for 'Anläggning' (Solna), 'Hus' (A), 'Plan' (Plan 2), and 'Rum' (8075). The main area is split into two panes. The left pane shows details for a selected configuration (SEK262004), including fields for 'Linje' (Linje1), 'Benämning' (SEK262004), 'Teknisk adress' (Adress 1014), 'Sensortyp' (Inbrott), 'Objekt' (Kontorsrum), 'Drift' (Skarp drift), 'Funktion' (Full), and 'Driftsatt' (2015-12-22). The right pane shows a table of configurations with columns for 'Benämning' and 'Position'. The table contains two entries: 'Solna Hus A Plan 2' and 'Solna Hus A Plan 2 Med Panel', both with green checkmarks in the 'Position' column. At the bottom, a status bar provides system information: 'Aggregate service: FW status: Thread usage: 4 Available memory: 2 542 MB User: AndersHellman Level: Master Mode: Multi Connection name: Bert 3 Server instance: E6530 Database: aCIP_DB9 FW: Bert3 Config: Bert3Cfg aCIP Version: 1.6.1.99'.

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.

Model: Bert 3 Anläggning: ALL

Main grid Solna Hus A Plan 2

Map elements

Element	Pos	T
Solna	✗	✗
SEK262001	✓	✓
SEK262004	✓	✓
SEK262005	✗	✗
SEK262006	✓	✓
SEK262007	✓	✓
SEK262008	✓	✓
SEK262009	✓	✓
SEK262010	✓	✓

80 Sektion
UC: UC262
Linje: Linje1
Benämning: SEK262001
Teknisk address: 1011
Sensortyp: Inbrott
Objekt: Bakdörr
Drift: Skarp drift
Funktion: Ingen
Driftsatt: 2015-12-18
Anläggning: Solna
Hus: A
Plan: Plan 2
Rum: A2002
Position: 279,793
Position edit AndersHellman
lock:

Aggregate service: FW status: Thread usage: 4 Available memory: 2 464 MB User: AndersHellman Level: Master Mode: Multi Connection name: Bert 3 Server instance: E6530 Database: aCIP_DB9 FW: Bert3 Config: Bert3Cfg aCIP Version: 1.6.1.99

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.

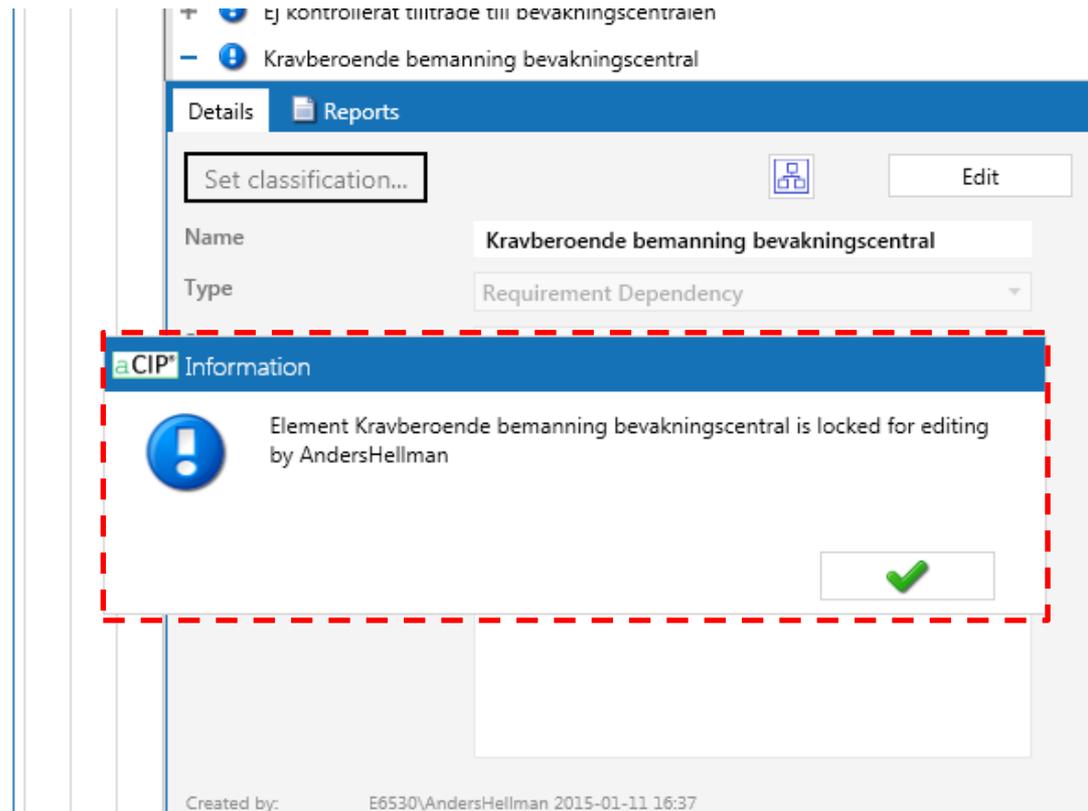
The screenshot shows the aCIP Client interface. At the top, there's a window title 'aCIP Client' and a 'Model' dropdown set to 'Bearcreek Nuclear'. Below that, there's a 'Main grid' tab and a 'Requirement grid' sub-tab. A 'Select configuration' dropdown is set to 'ALL'. A red box highlights an Excel icon in the top right of the grid area. The main table is titled 'Grouped by: Fulfilled' and has columns for Name, Code, Unified code, Page in document, Consultant approval, Customer approval, Category, Follow decision, Created by, Created when, Last changed by, and Last changed when. The table is filtered to show 'Fulfilled' requirements. The 'Fully' group is expanded, showing several rows with details like 'Anslutning till bevakningscentral' and 'Bevakning dygnet runt'. The 'Customer approval' column for the 'Fully' group shows a green 'Fully' status and an 'Unknown' dropdown.

	Name	Code	Unified code	Page in document	Consultant approval	Customer approval	Category	Follow decision	Created by	Created when	Last changed by	Last changed when
Not set												
None												
Partly												
+ Bevakningscentral: funktion loggning		002.011.017		10			Requirement	Follow	E6530\AndersHellman	2015-01-11	E6530\AndersHellman	2015-01-13
+ Skyddat område: sektionering		002.011.034		10			Requirement	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-01-12
+ Skyddat område: skalskydd		002.011.031		10			Requirement	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-01-12
Fully												
+ Anslutning till bevakningscentral		002.011.011		9			Requirement	Follow	E6530\AndersHellman	2015-01-11	E6530\AndersHellman	2015-04-16
+ Bevakning dygnet runt		999.001.001	X01.101.005				Requirement	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-01-12
+ Bevakningscentral: bemanning		002.011.016		10	Fully	Unknown	Requirement	Follow	E6530\AndersHellman	2015-01-11	E6530\AndersHellman	2015-05-05
+ Bevakningscentral: tillträde		002.011.014		9			Requirement	Follow	E6530\AndersHellman	2015-01-11	E6530\AndersHellman	2015-04-21
+ Bevakningsstyrka: bemanning		999.001.002	X01.101.006				Requirement	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-02-06
+ Inre förvaringsutrymme: belägenhet		002.011.036		10			Recommendation	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-01-12
+ Inre förvaringsutrymme: tillträde		002.011.043		11			Requirement	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-01-13
+ Skyddat område: belägenhet		002.011.030		10			Requirement	Follow	E6530\AndersHellman	2015-01-12	E6530\AndersHellman	2015-01-12
Not relevant												
Unknown												
Separate requirement document												

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 of 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.

Matris 2

Händelser och platser

Person->Händelse->Plats

Details Reports

Person->Händelse->Plats

Set classification...

Benämning

Beskrivning

Created by: E6530/Ande

Last changed by: E6530/Ande

Drag a column header and drop it here to group by that column

Person	Misstänkt	Personnummer	Händelse	Kategori	Typ	Start	Slut	Plats	Gatuadress	Postnummer	Ort	Län
Hellman, Anders	Ja		Hellman Anders boende	Inträffat	Boende	2009-02-05 00:00:00	2015-02-03 00:00:00	Villa Älta	Hämplingevägen 33	13837	Älta	Stockholm
Karlsson, Kalle	Ja	580425-4125	Kalle Karlsson i fängelse	Inträffat	Intagen	2014-10-01 00:00:00	2015-05-04 00:00:00	Storbodaanstalten	Slottsvägen 30	19595	Rosersberg	Stockholm
Hellman, Anders	Ja		Krockat med bilen	Inträffat	Iakttagen	2015-02-10 00:00:00	2015-02-10 00:00:00	E4 vid Kungens Kurva		14512	Huddinge	Stockholm
Hellman, Anders	Ja		Handlat på Statoil Älta	Inträffat	Betalkortstransaktion	2015-03-10 00:00:00	2015-03-10 00:00:00	Statoil Älta	Oxelvägen 1	13832	Älta	Stockholm
Inga			Rån Statoil Älta	Inträffat	Begått brott	2015-03-07 00:00:00	2015-03-07 00:00:00	Statoil Älta	Oxelvägen 1	13832	Älta	Stockholm
Hellman, Anders	Ja		Medlem Bandidos	Inträffat	Medlem	2013-02-05 00:00:00	2016-12-31 00:00:00	Sverige				
Karlsson, Kalle	Ja	580425-4125	Sedd vid Konsum Älta	Inträffat	Iakttagen	2015-03-07 00:00:00	2015-03-08 00:00:00	Konsum Älta	Ältavägen 114	13835	Älta	Stockholm
Karlsson, Kalle	Ja	580425-4125	Oövervakad permission	Inträffat	Permission oövervakad	2015-03-07 00:00:00	2015-03-08 00:00:00	Okänd				

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

Matris 2

Händelser och platser

Person->Händelse->Plats

Details Reports

Set classification...

Benämning

Beskrivning

Created by: E6530\AndersH

Last changed by: E6530\AndersH

Grouped by: Typ

Open Gantt view

Person	Misstänkt	Personnummer	Händelse	Kategori	Start	Slut	Plats	Gatuaadress	Postnummer	Ort	Län
Boende											
Intagen											
Iakttagen											
Hellman, Anders	Ja	580425-4125	Krockat med bilen	Inträffat	2015-02-10 00:00:00	2015-02-10 00:00:00	E4 vid Kungens Kurva		14512	Huddinge	Stockholm
Karlisson, Kalle	Ja		Sedd vid Konsum Älta	Inträffat	2015-03-07 00:00:00	2015-03-08 00:00:00	Konsum Älta	Ältavägen 114	13835	Älta	Stockholm
Begått brott											
Betalkortstransaktion											
Hellman, Anders	Ja		Handlat på Statoil Älta	Inträffat	2015-03-10 00:00:00	2015-03-10 00:00:00	Statoil Älta	Oxelvägen 1	13832	Älta	Stockholm
Medlem											
Permission oövervakad											

Utredningar 1

Personer 6

Organisationer 1

Händelser 9

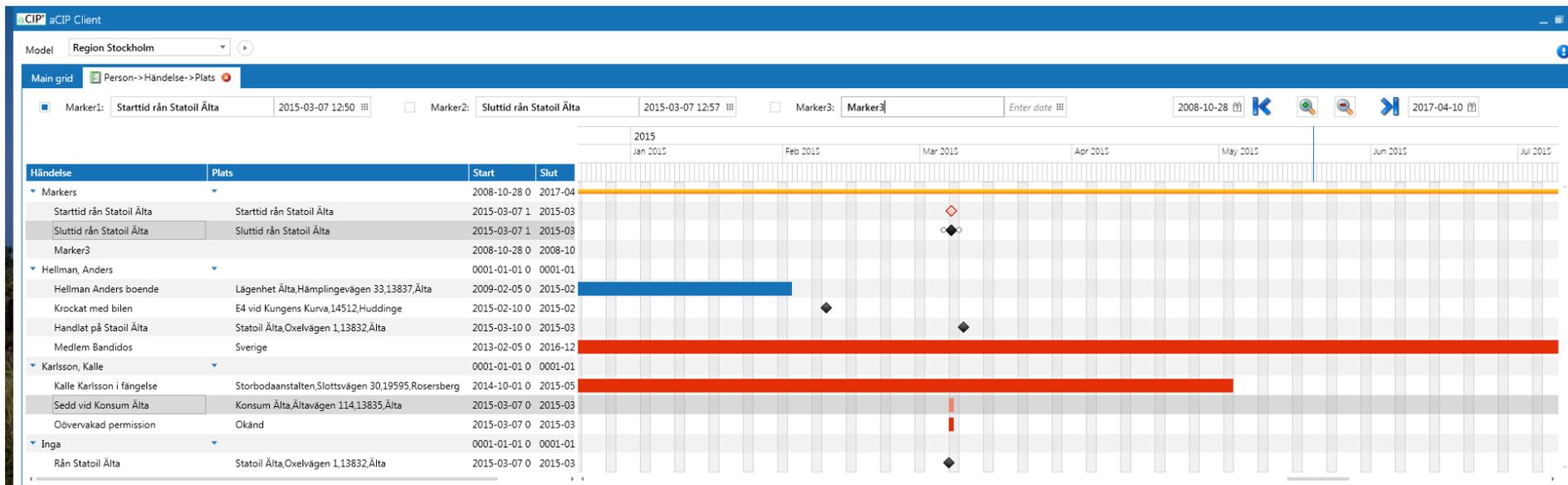
Platser 8

Dokumentbibliotek 3

Gantt view

Automatically generated Gantt views

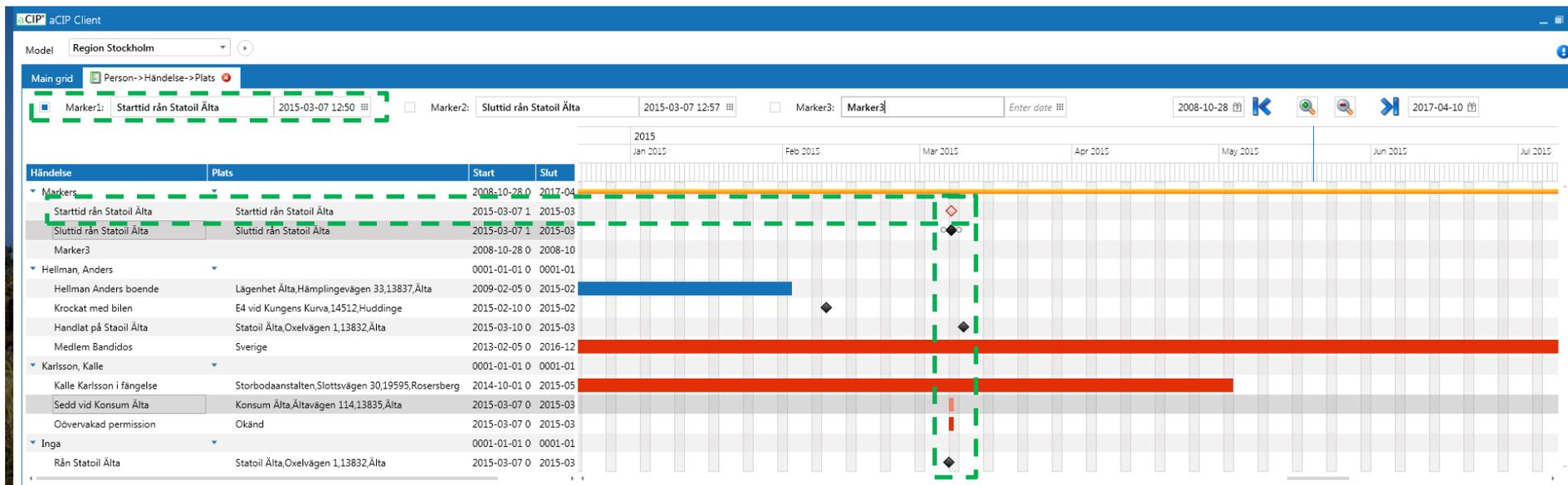
- Created automatically from matrices
- Grouped by the first column in the matrix
- There must be DateTime columns named "Start" and "Slut" (or "End")
- Get its sort order from the configuration
- Example of usage
 - Visualize project planning
 - Analyze timed events, for example in criminal forensics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

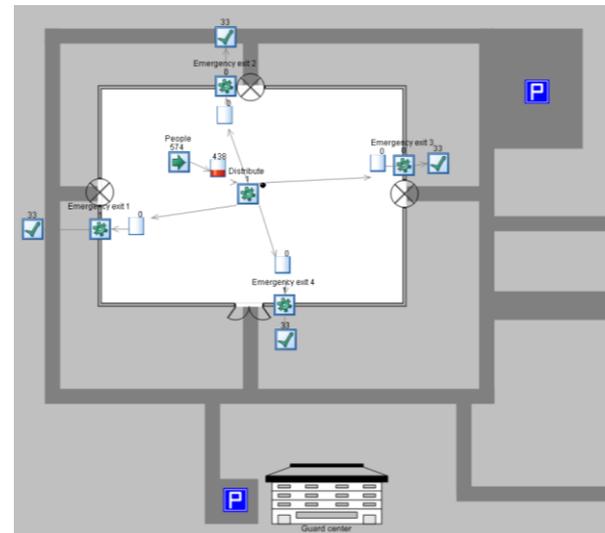
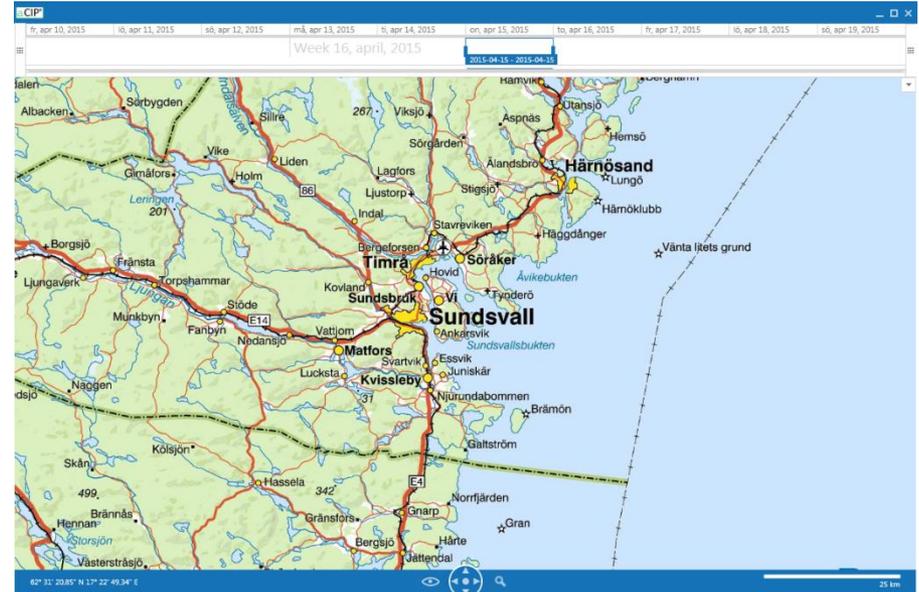
- Bug fixes and smaller adjustments are done as soon as possible

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



aCIP® - Smart information management

The art of creating order



Thank you for you attention!