NetKompetenz

SW System Design

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|  | |
| **Revision:** | 1.1 |
| **Status:** | Released |
| **File:** |  |

# History

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| --- | --- | --- | --- |
| Revision | Date | Author, Editor | Reason |
| 1.1 | 13/09/2017 | Carlos Raygoza | Initial revision |

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# Terms and Abbreviations

|  |  |
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| **Term** | **Definition** |
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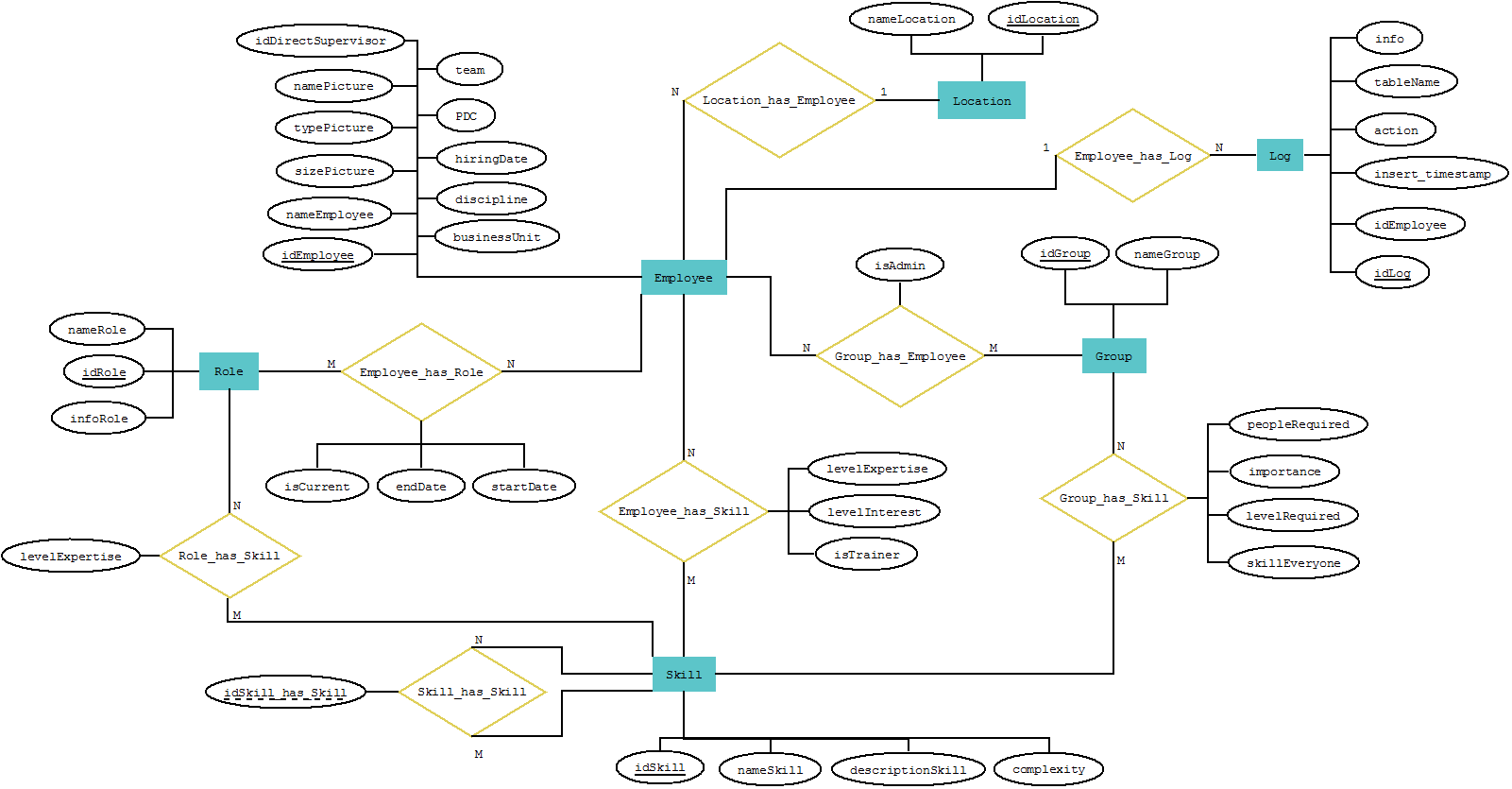
# Overview

This document describes the netKompetenz system. Definition of database, use cases, platform, general technic aspects and usability.

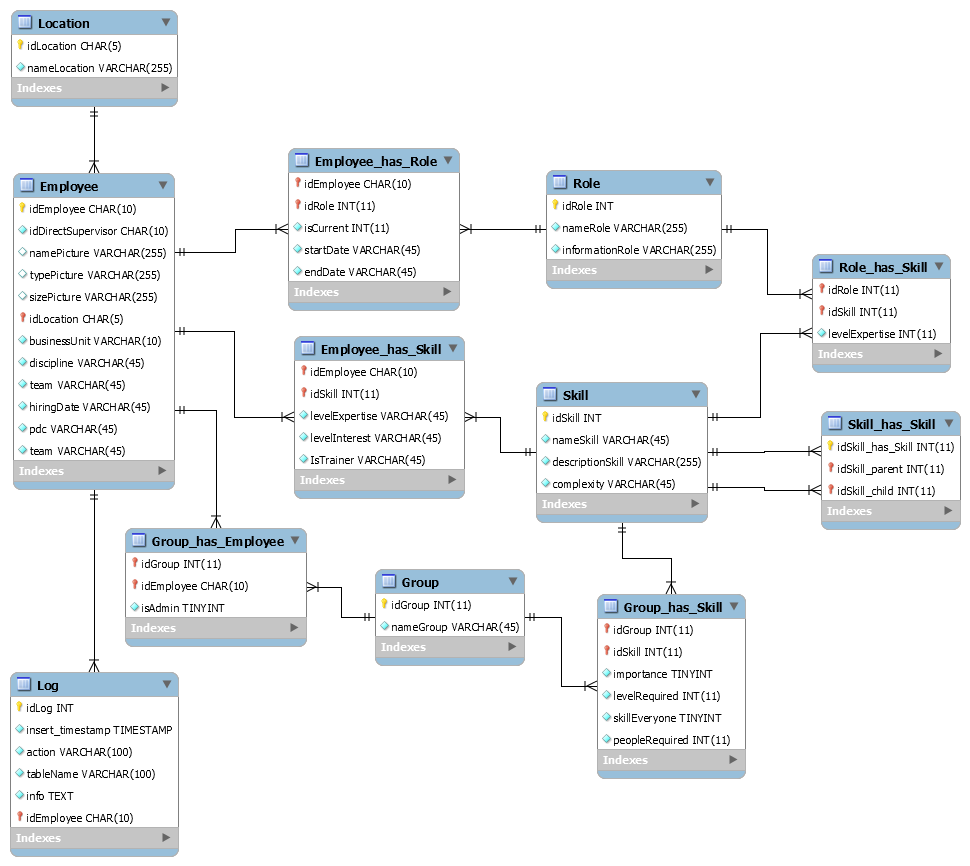
Eventhough, the netKompetenz system is built in php using Yii Framework, this document does not focus in detail on any of these.

# Software Structure

## Entity Relation Diagram (ER)



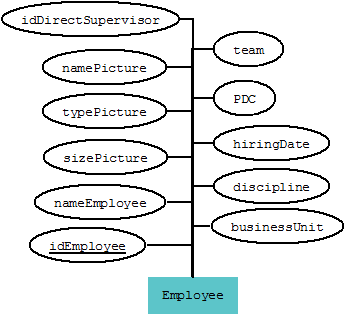
## Enhanced Entity Relation Diagram (EER)



## Use cases

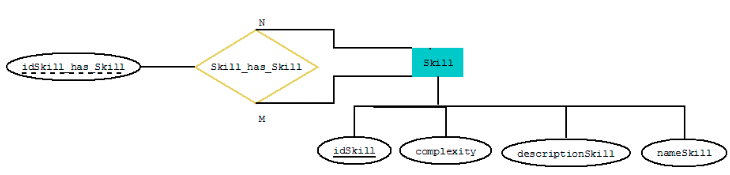
### New Employee in the system

To create a new user in the system, should be filled up all the attributes and upload his/her picture (or they are going to be taken from Continental data base). The ID is equal to the one in Windows.



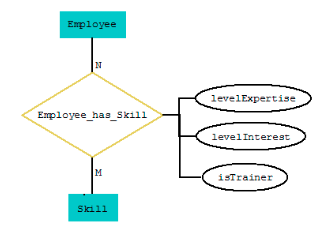
### Skills

Add skill A and skill B as parents of skill C. (Only applicable if there are 3 or more skills registered)



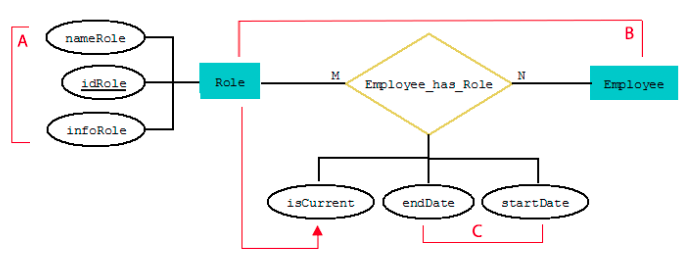
### Employee, trainer of a skill

An employee registers a skill as theirs. She / he fills their level of expertise and level of interest, also, want to be a trainer, check the box.



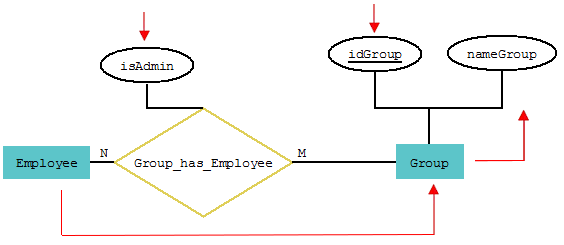
### Roles

1. To create a role, specify the name and the information about it.
2. An Employee is involved in a role at the moment. The attribute *isCurrent* needs to be checked.
3. An Employee has an old role. This should contain the end date. (The current one should be blank)



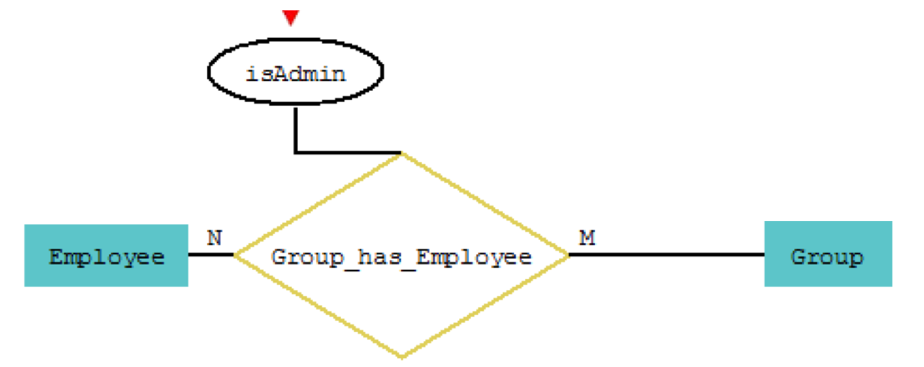
### Create a group

Employee creates a new group specifying a name. She/he is the admin of the group by default.



### Adding viewers to a group

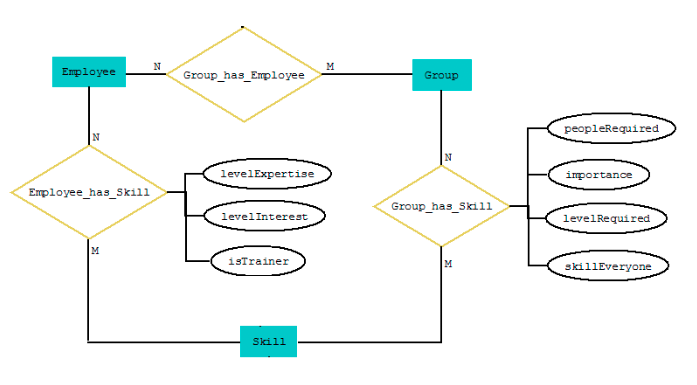
Adding an Employee to a group as a participant (viewer), *isAdmin* should not be checked.



**Note**: Can be more than one admin in a group.

### Employees in a group

1. A group requires skill A with a certain level of expertise (*levelRequired)*. Employee B has that skill with the same or higher level (*levelExpertise)*. Then, it matches.
2. If *skillEveryone* shows that just 1 person should cover that level, Employee C with a lower level of expertise in the skill A can be part of the team. Could be a helper to Employee B.
3. If *peopleRequired* shows that 2 Employees should have skill A, this parameter is met with Employee B and C.



B

C

A

A

## Interfaces

# SW-Update model

# Traceability (Matrix)

The traceability approach is described in the Requirements Management Plan (RMP).

# Annex

## References

|  |  |  |
| --- | --- | --- |
| **Ref** | **Name of Document** | **Version or Release Date** |
| SD\_PF1 | Platform 1 for Ford Instrument Clusters (PF1-F-IC) SW System Design | <http://ims-id:7001/si/viewrevision?projectName=%23/id/ford_PF1/sw%23com/Design/~ford_PF1.sw.com.Design_genPF1&selection=SWSYS_D_PF1-F-IC.doc> |
| SD\_BSJCP2016 | JCP2016 Platform: SW System Design | \\cw01\root\Loc\bbuv\did35969\14\_SW\30\_SW\_System\02\_SW\_Systemdesign\JCP2016\_SW\_Platform.docx |
| MS\_WCS | Module Spec for Widget Communication Services | http://bhdjek0g.cw01.contiwan.com:54321/mediawiki/index.php?title=Widget\_Communication\_Services\_(WCS)\_High-Level\_Overview |
| MS\_WAS | Module Spec for Widget Administration Services | http://bhdjek0g.cw01.contiwan.com:54321/mediawiki/index.php?title=Widget\_Administration\_Services\_(WAS)\_High-Level\_Overview |
| Qt simulation | Loop X Qt simulation | Loop 8.3 |
| CIL | Configuration Item List | [CIL\_S-Family.xlsm](file:///\\cw01.contiwan.com\root\Loc\bbuv\did35969\14_SW\35_SW_Functions\PIFL_active_revision\CIL_S-Family.xlsm) |
| A69 | A69\_SHMI\_Languages\_and\_Markets\_\_ | See latest version in DOORS |
| Anim Model | FDS\_ANIM\_Ford\_S-Family\_S1-S2.docx | See MKS  <http://ims-id:7001/si/viewrevision?projectName=%23/id/ford_PF1/sw%23com/Functions/HMI/FDS/~ford_PF1.sw.com.FDS_SFamily&selection=FDS_ANIM_Ford_S-Family_S1-S2.docx> |
| MasterModel | Master Model FDS | <http://ims-id:7001/si/viewrevision?projectName=%23/id/ford_PF1/sw%23com/Functions/HMI/FDS/~ford_PF1.sw.com.FDS_SFamily&selection=FDS_Master_Model_Ford_S_Family_S1-S2.doc> |
| S Family Message Center with Quick Action Menu | S Family Message Center with Quick Action Menu – CGEA 1.3\_v2.0.doc | V3.1 |
| Interruptability\_Matrix | [Interruptibility\_Matrix.xlsx](#_References) | <http://ims-id:7001/si/viewrevision?projectName=%23/id/ford_PF1/sw%23com/Design/HMISys/~ford_PF1.sw.com.HMISys_gen_PF1&selection=Interruptibility_Matrix.xlsx> |
| ROOT\_SM | ROOT\_SM.xls | <http://ims-id:7001/si/viewrevision?projectName=%23/id/ford_PF1/sw%23com/Design/HMISys/~ford_PF1.sw.com.HMISys_gen_PF1&selection=ROOT_SM.xlsx> |
| General\_HMI\_TEMPLATE | HMI\_ATTACHMENT1a Global Template-v0 5.pdf | Doors Link:  /Ford\_S-Family/010\_Stakeholder Requirements/10\_CustomerRequirements/0\_SOW  v:\03\_Prod\_Dev\20\_Specifications\10\_CustomerRequirements\\_From\_Acquisition\_Phase\unzipped\_flat\HMI\_ATTACHMENT1a Global Template-v0 5.pdf |
|  |  | http://ims-id:7001/si/viewrevision?projectName=%23/id/ford\_PF1/sw%23com/Functions/HMI/SRSC/~ford\_PF1.sw.com.SRSC\_SFamily&selection=SRSC\_HMI\_S-Family.doc |
| AMT\_Help | AMT help file | Located in AMT installation folder |
| WRNDLR | FDS\_WarningHandler\_Ford\_S-Family.docm | http://ims-id:7001/si/viewrevision?projectName=%23/id/ford\_PF1/sw%23com/Functions/HMI/FDS/~ford\_PF1.sw.com.FDS\_SFamily&selection=FDS\_WarningHandler\_Ford\_S-Family.docm |
| FontRanges | Excel file containing the Unicode ranges for each font group | \\cw01\root\Loc\bbuv\did35969\14\_SW\100\_HMI\_GDL\30\_SW\_Subsystem\30\_Language\_Handling\FontSplit\Unicode Ranges\Loop7\_FontRanges.xlsx |