Ecodial 4.8

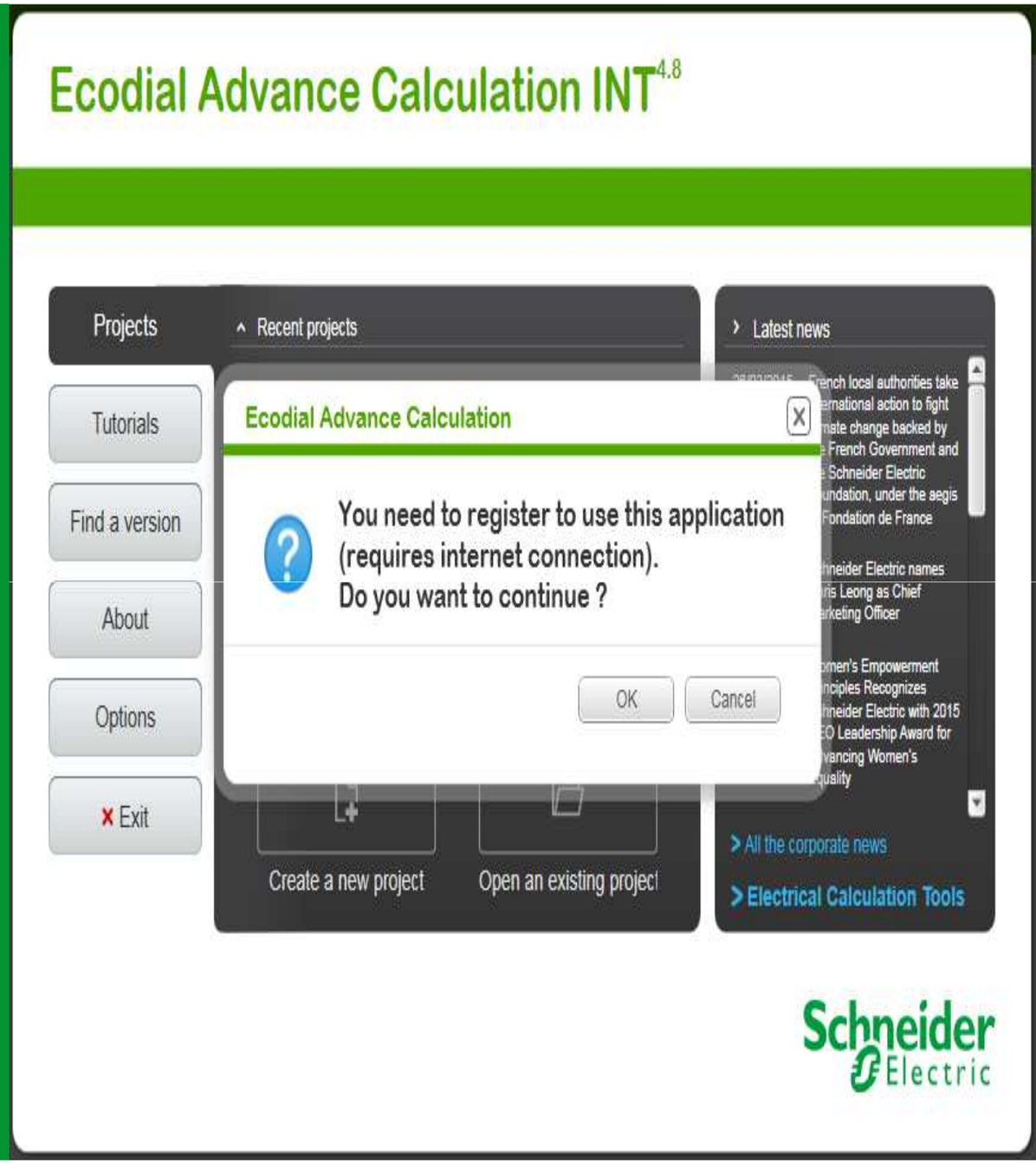
The improvements & fixes as compared with the previous version

04 June 2015
Genghiz Khan - DCE software

Authentication Module

Authentication Module

One time registration is mandatory



Note :

1. User will be able to create a new project, only after completing the registration steps…
2. The user ‘authentication module’ will open only on the IE version above 8 (IE8 is excluded)

Reference method of installation ‘E’ & ‘F’

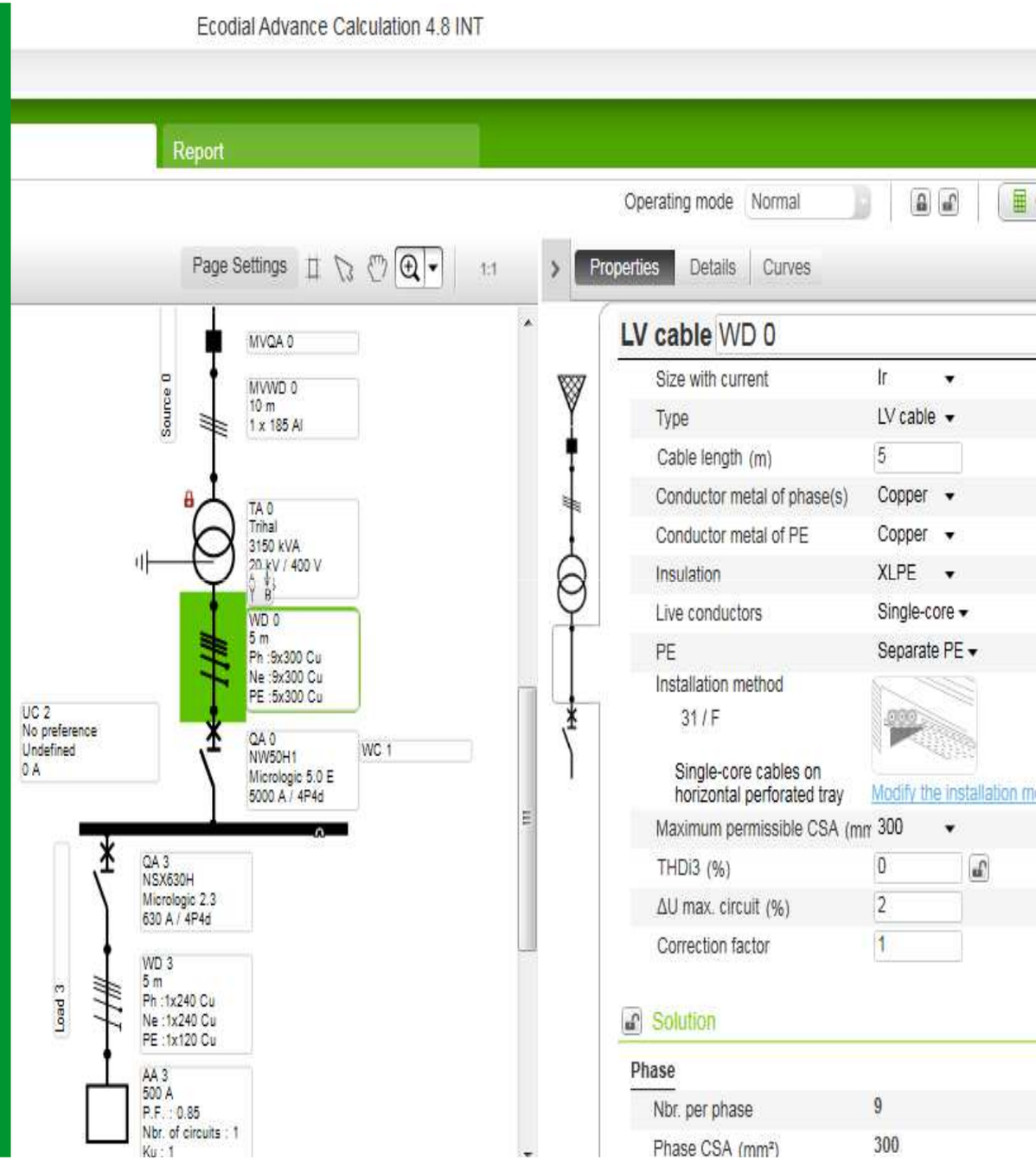
Installation methods “31, 32, 33 & 34”

Reference Method : F

The calculation & sizing is now enhanced up to 19 “number of additional touching circuits”

The default “tray number” is one (1)

The limitation of 2 “number of additional touching circuits is still valid, while the other tray numbers are specified by the users.



Reference Method : E

The calculation & sizing is now enhanced up to 19 “number of additional touching circuits”

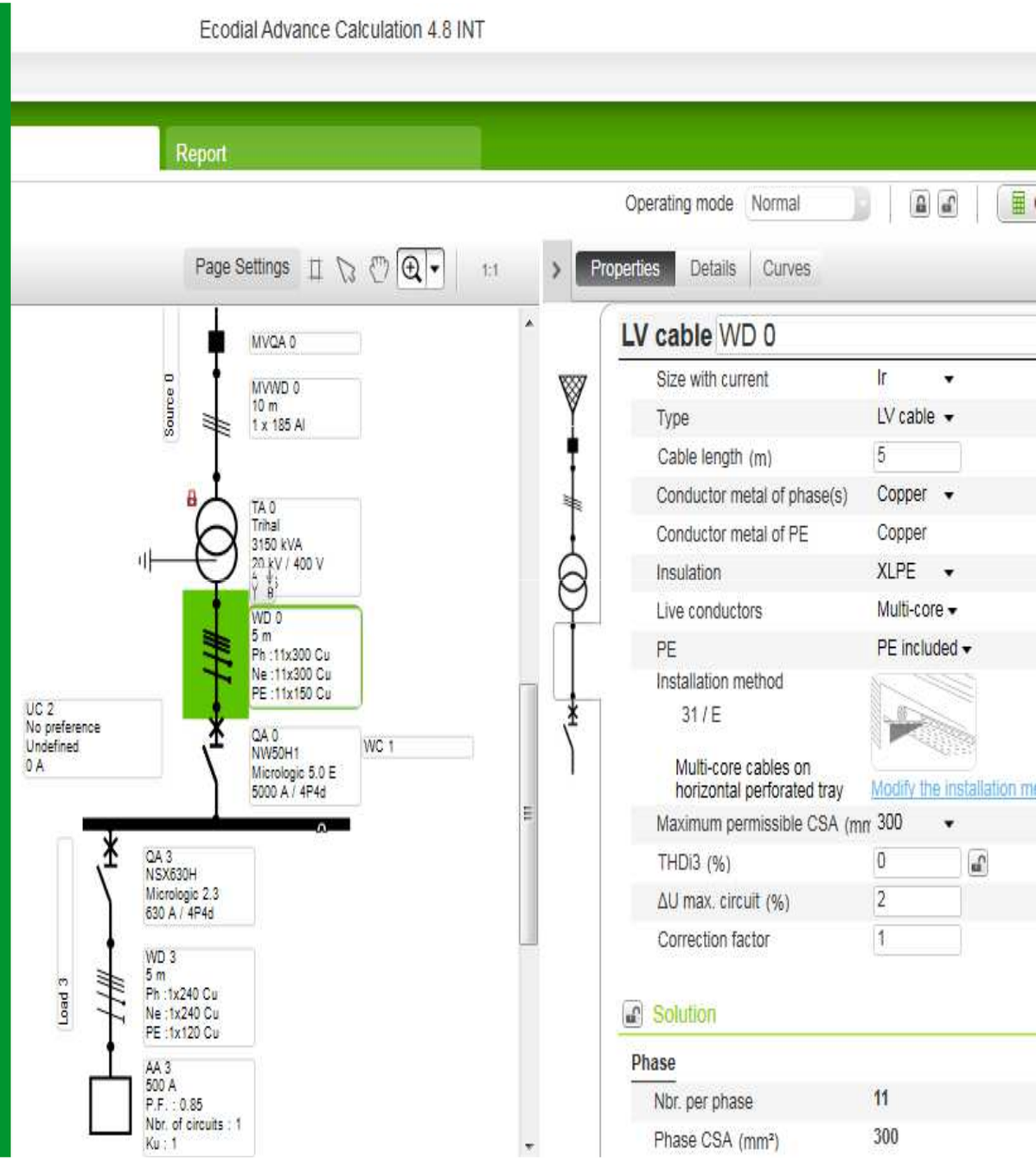
The default “tray number” is one (1)

The limitation of **9** “number of additional touching circuits is still valid, while the other tray numbers are specified by the users

(arrangement : Touching)

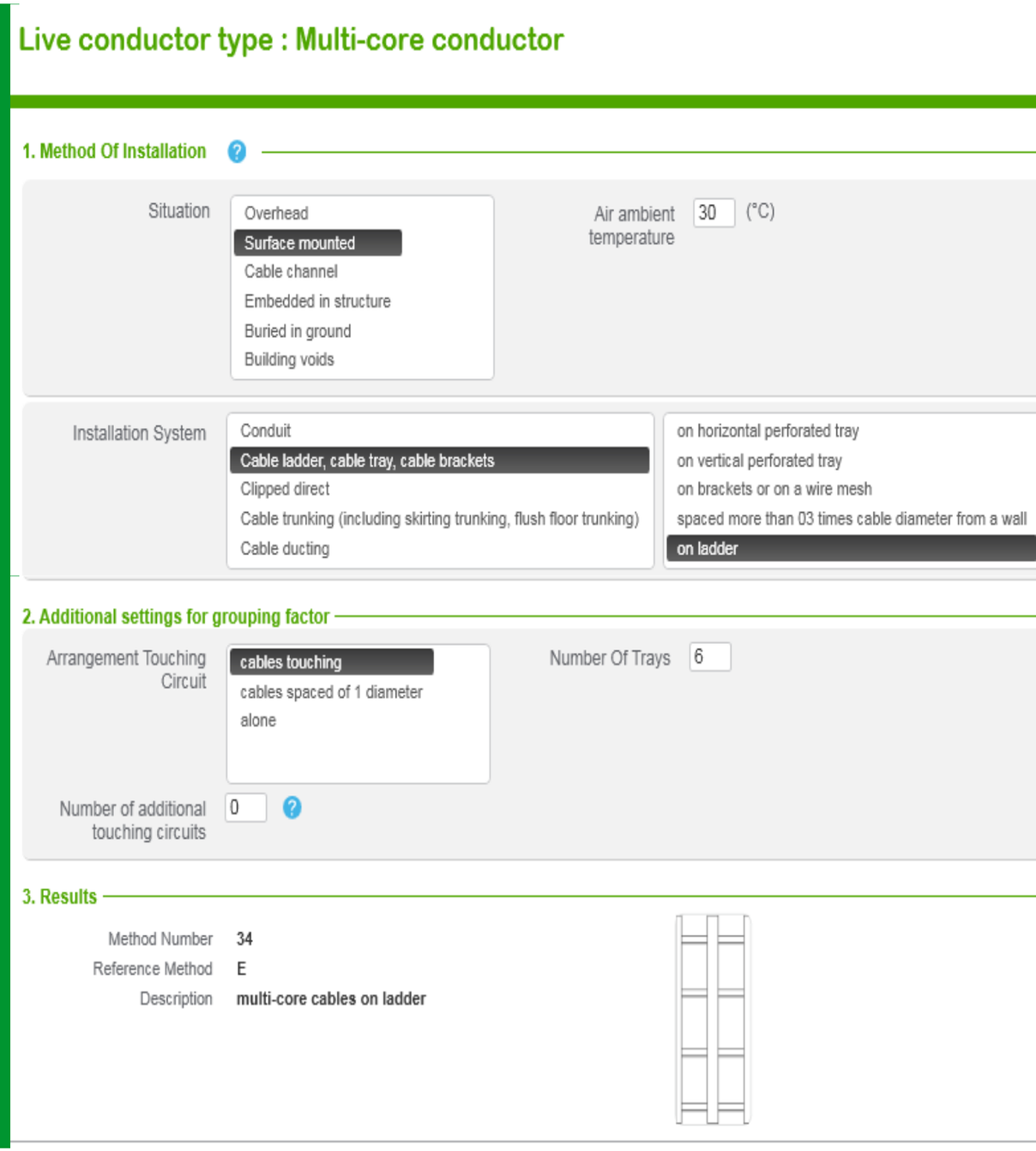
The limitation of **6** “number of additional touching circuits is still valid, while the other tray numbers are specified by the users

(arrangement : Spaced)



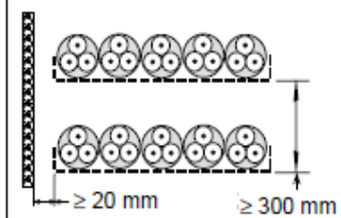
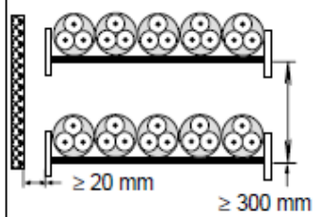
Reference Method : E

The calculation & sizing is now enhanced up to the “Tray number (6)”



Reference Method E

Table B.52.20 – Reduction factors for group of more than one multi-core cable to be applied to reference current-carrying capacities for multi-core cables in free air – Method of installation E in Tables B.52.8 to B.52.13

Method of installation in Table A.52.3			Number of trays or ladders	Number of cables per tray or ladder					
				1	2	3	4	6	9
Perforated cable tray systems	31	Touching  	1	1,00	0,88	0,82	0,79	0,76	0,73
			2	1,00	0,87	0,80	0,77	0,73	0,68
			3	1,00	0,86	0,79	0,76	0,71	0,66
			6	1,00	0,84	0,77	0,73	0,68	0,64
Cable ladder systems, cleats, etc. (note 3)	32 33 34	Touching  	1	1,00	0,87	0,82	0,80	0,79	0,78
			2	1,00	0,86	0,80	0,78	0,76	0,73
			3	1,00	0,85	0,79	0,76	0,73	0,70
			6	1,00	0,84	0,77	0,73	0,68	0,64

Reference method of installation ‘D1’ & ‘D2’

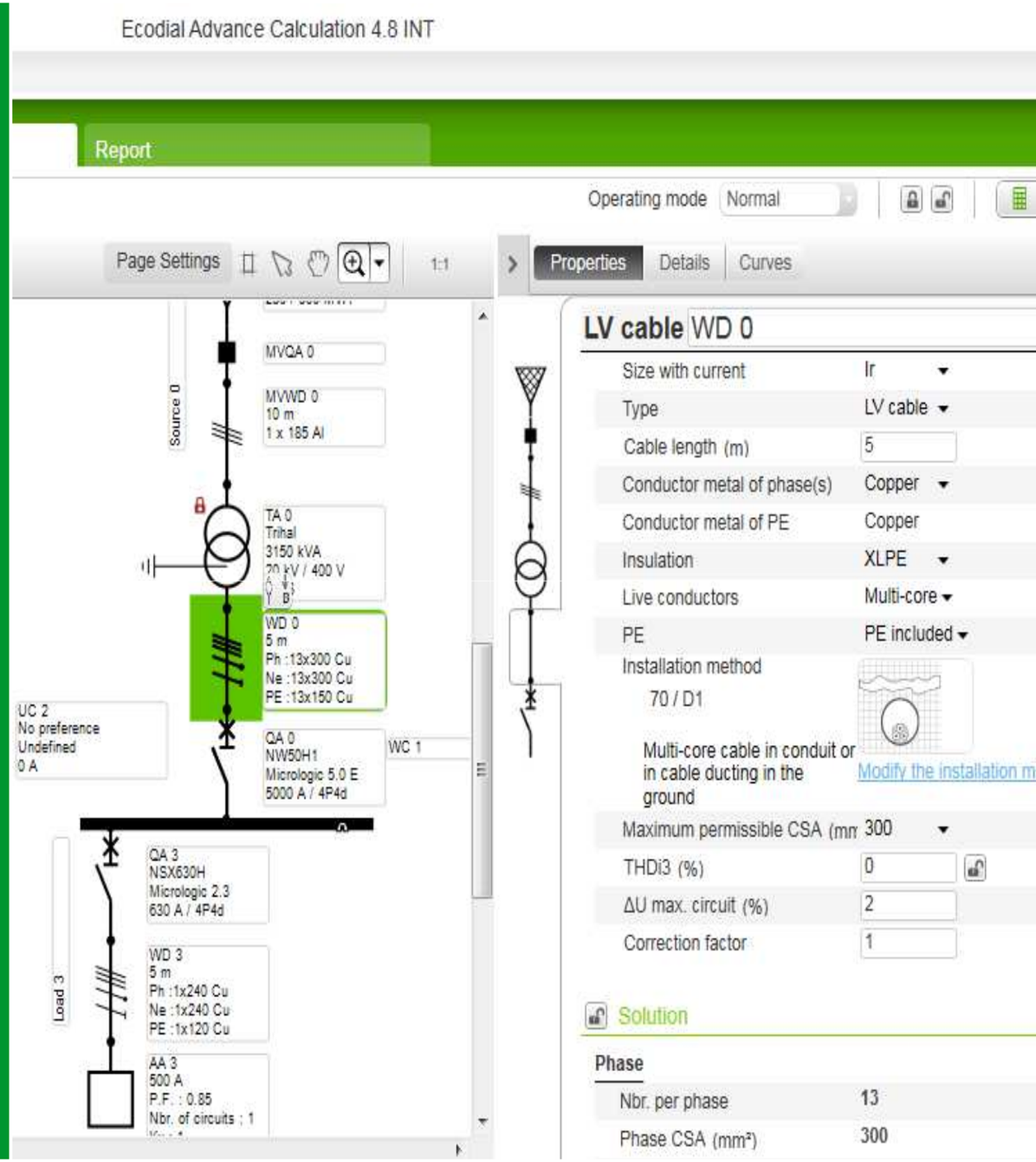
Installation methods “70, 71, 72 & 73”

Reference Method : D1

Conductors at ‘cable ducting’ & ‘in the Ground’ is known reference method D1

Table B.52.19 for “group reduction factor” is updated.

The calculation & sizing is now enhanced up to 19 “number of additional touching circuits”



Reference Method : D2

Conductors directly ‘in the ground’ is grouped as reference method D2

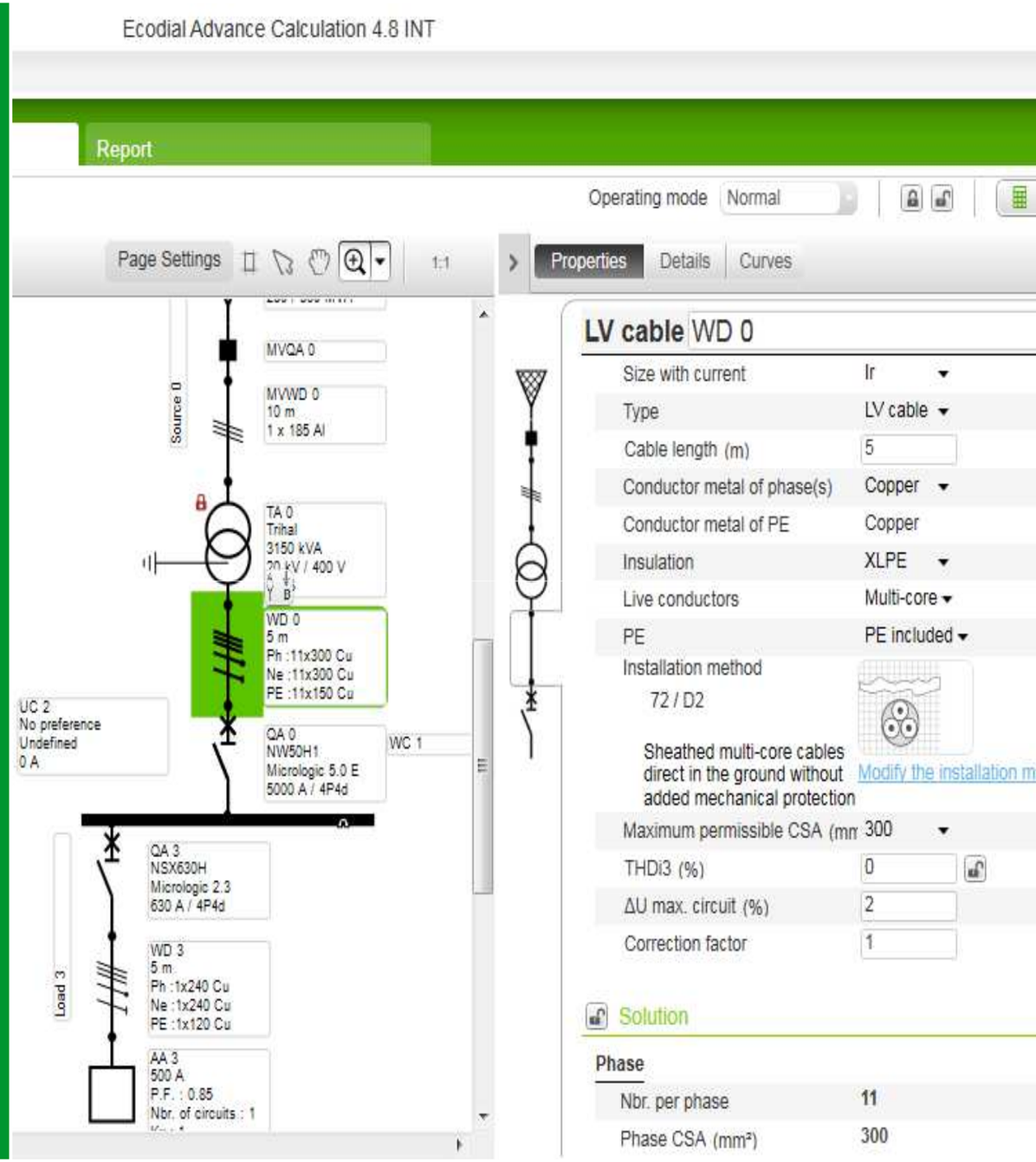
The following “current carrying capacity” tables are updated.

Table B.52.2

Table B.52.3

Table B.52.4

Table B.52.5

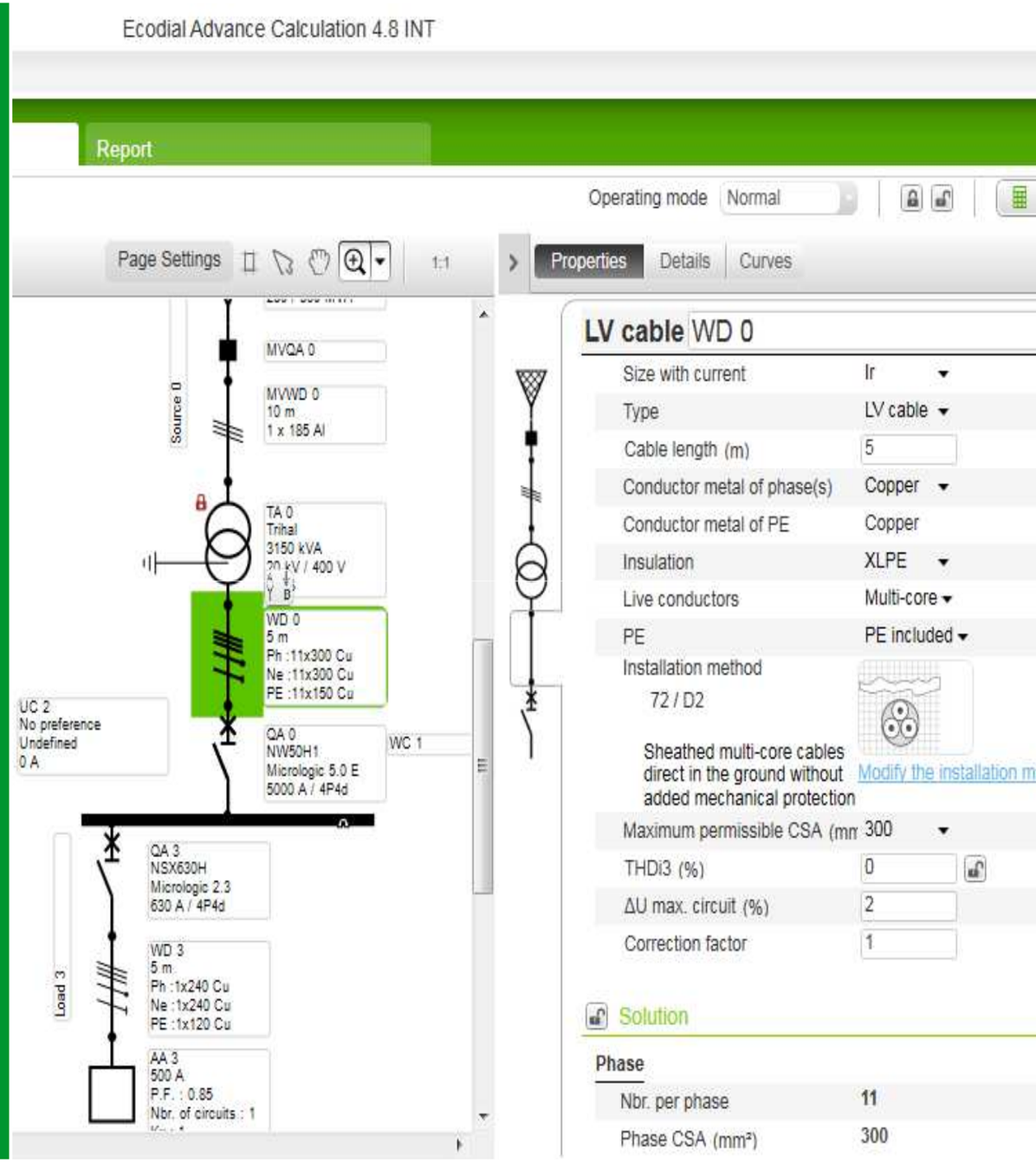


Reference Method : D2

Table B.52.18

for “group reduction factor” is updated.

The calculation & sizing is now enhanced up to 19 “number of additional touching circuits”



½ PE conductor - priority solution

Full PE conductor is optional

½ PE conductor – priority selection

While sizing the cable with '**Multi core – included PE**' the priority solution is ½ PE

Full PE is optional – from the manual choice controller

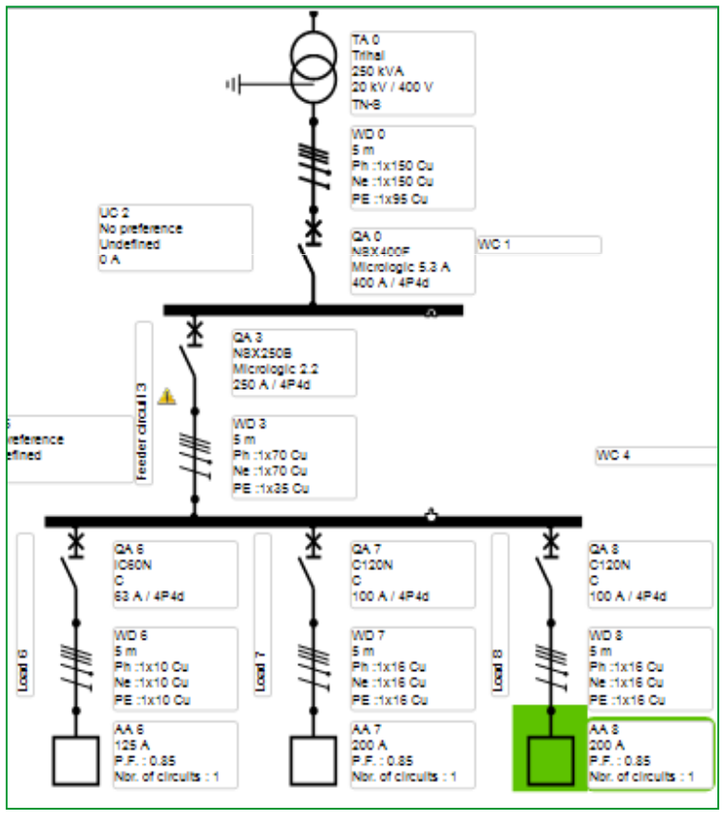
Ku propagation

Ku=1 is to size the protection & cable

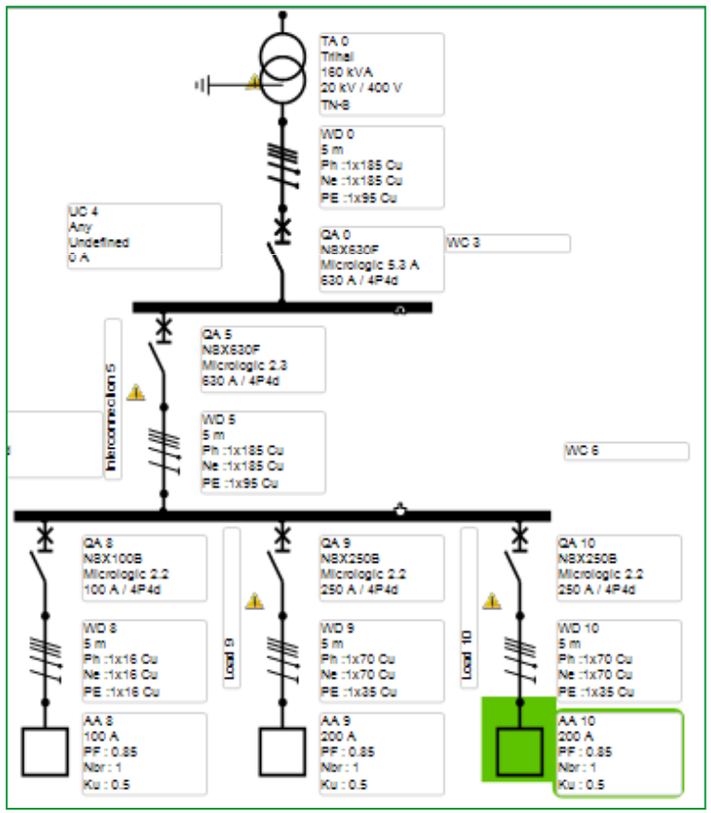
Ku=? the value defined by the user impacts the ‘source sizing’

Ku propagation

Impact on the protection and cable…



Impact on the source sizing…



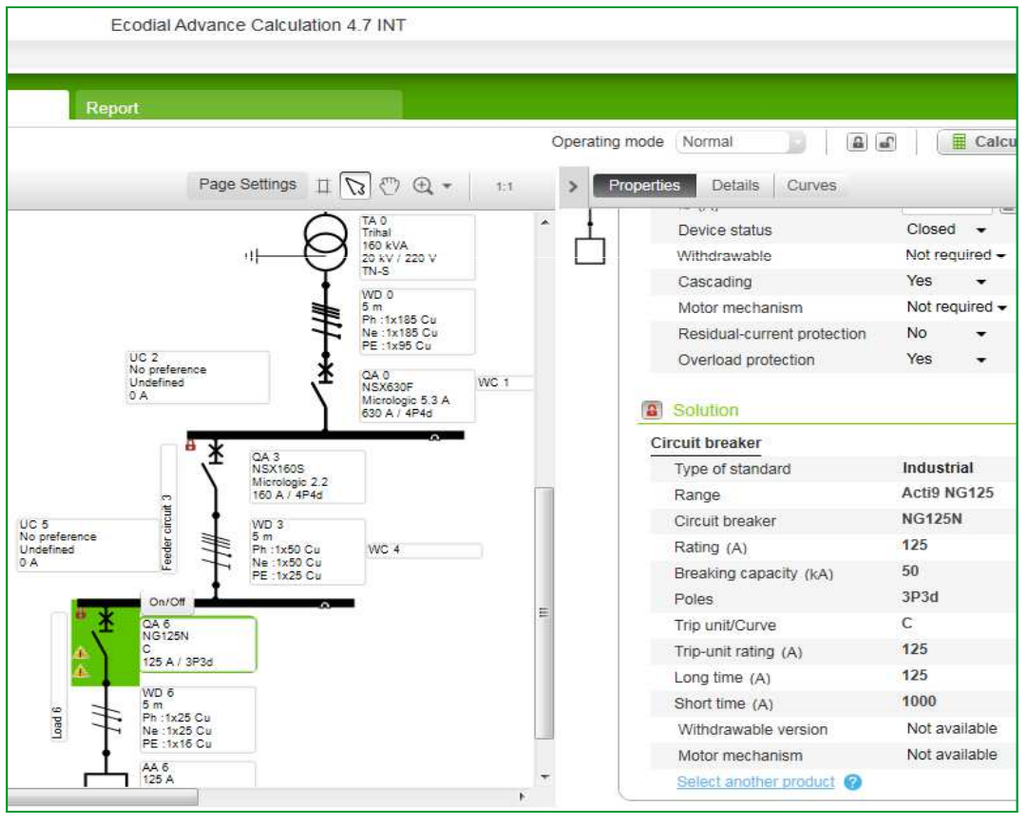
Cascading

Reading the Cascading table for ‘single phase loads’ at 220 volts network is correct now.

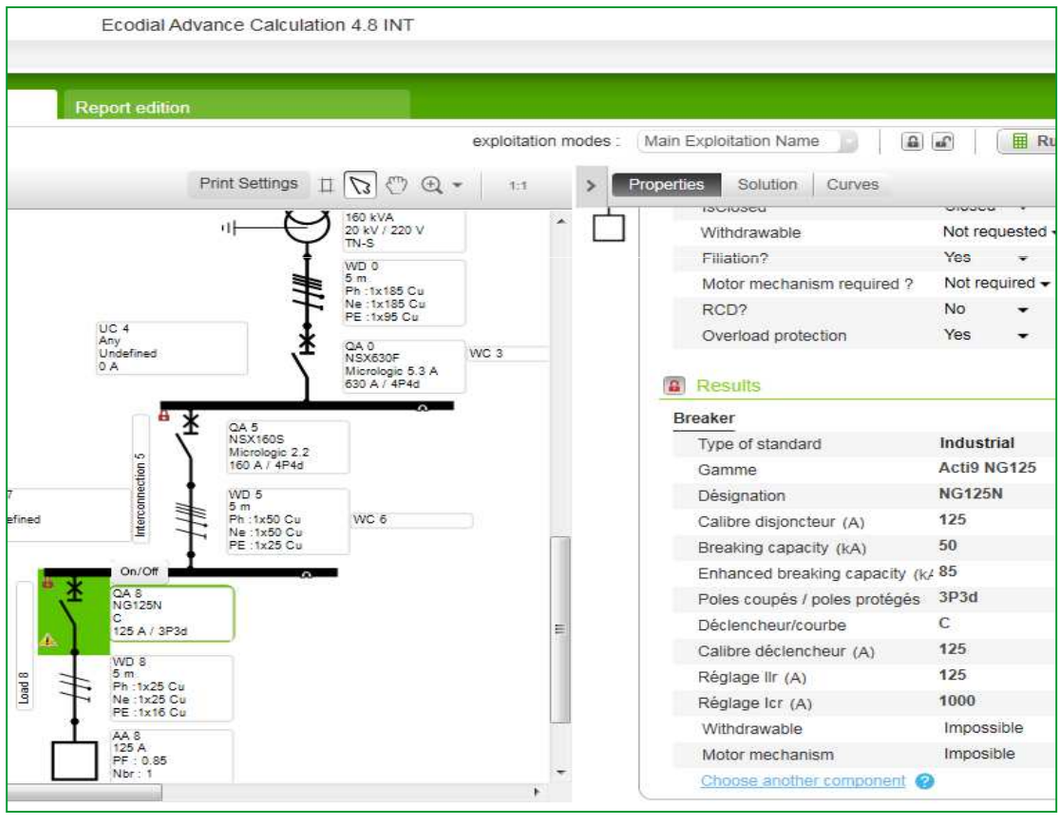
Cascading

Reading the table for single phase loads at the 220 volts is improved

Version 4.7



Version 4.8



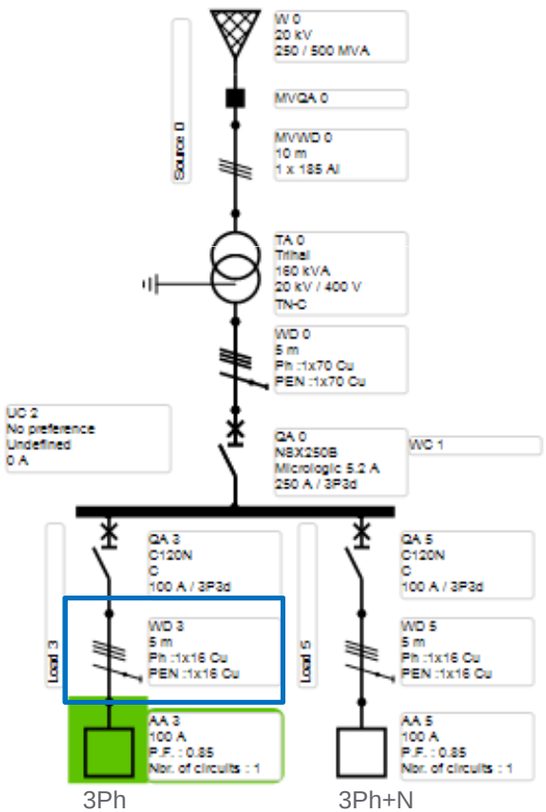
Representation of conductors

The representation of “2Ph & 3P” conductors at TNC system is improved.

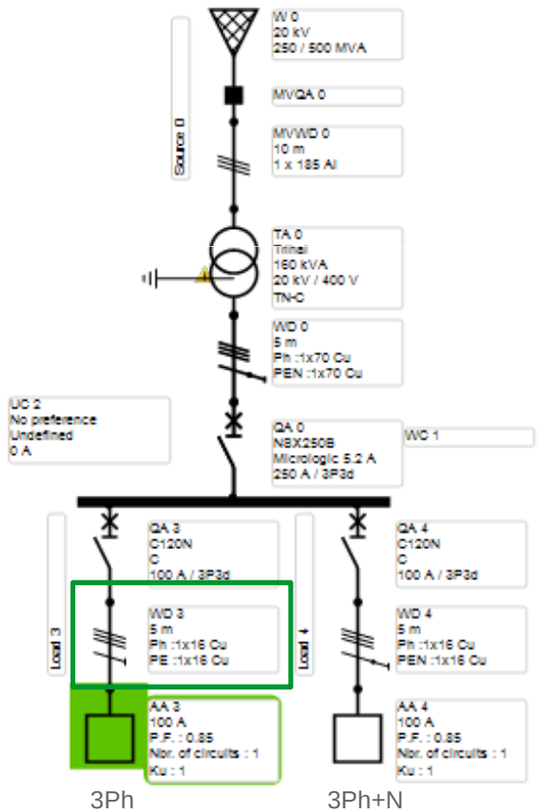
Representation of conductors

The representation of 2Ph&3Ph conductors at TNC system is improved.

Version 4.7



Version 4.8



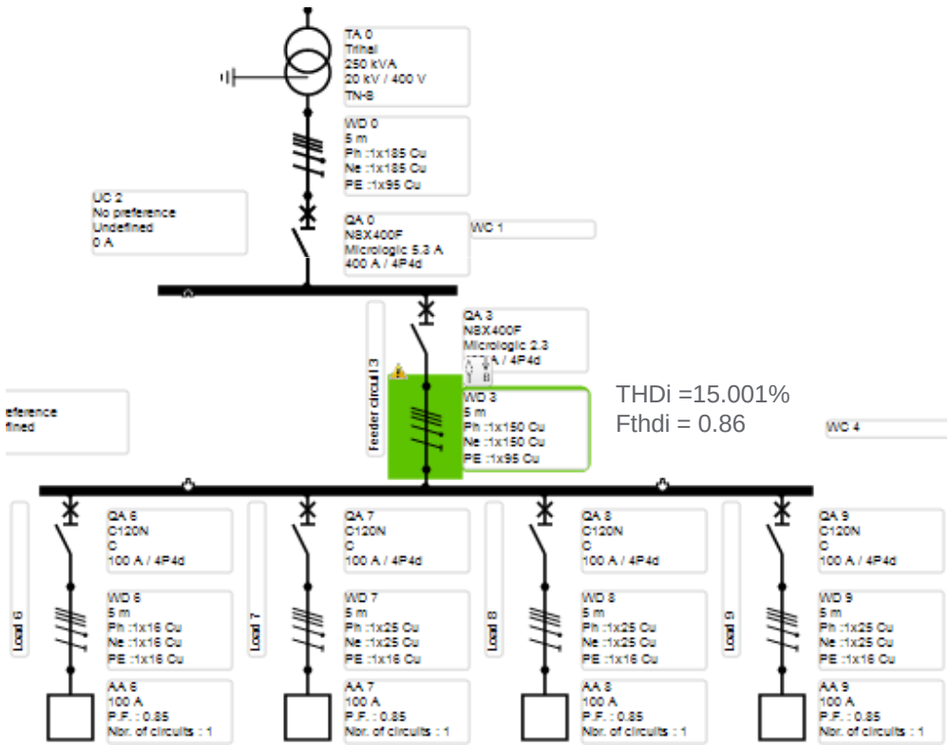
THDi Propagation

THDi Propagation and fine tuning at decimal level

THDi Propagation

THDi Propagation and fine tuning at decimal level

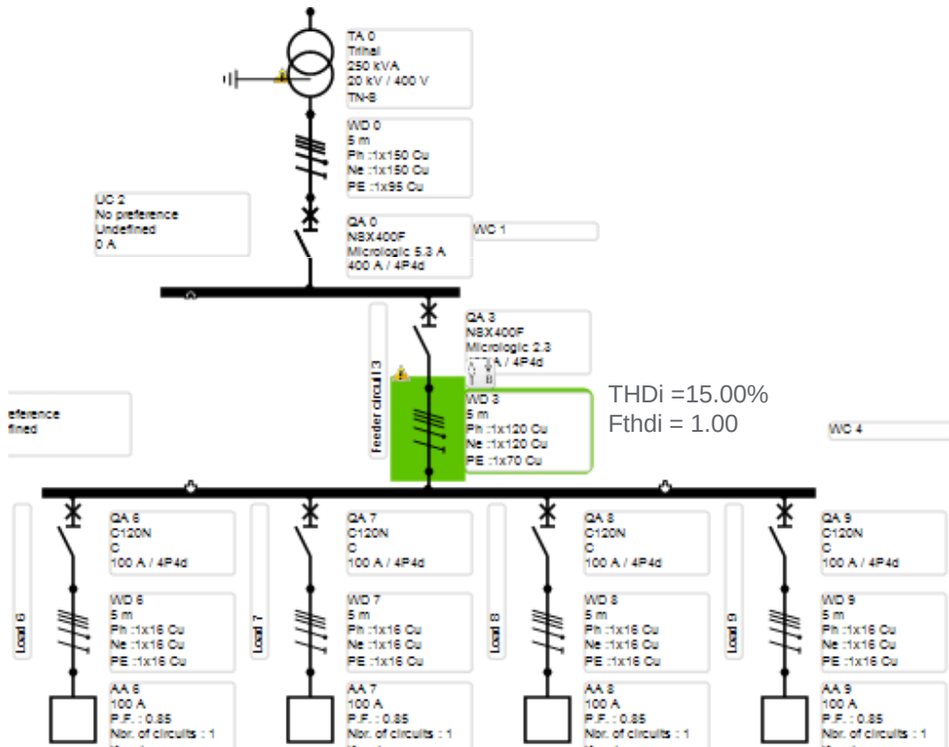
Version 4.7



THDi =15.001%
Fthdi = 0.86

THDi =15% | THDi =15.001% | THDi =15.001% | THDi =15.001%

Version 4.8



THDi =15.00%
Fthdi = 1.00

THDi =15% | THDi =15.001% | THDi =15.001% | THDi =15.001%

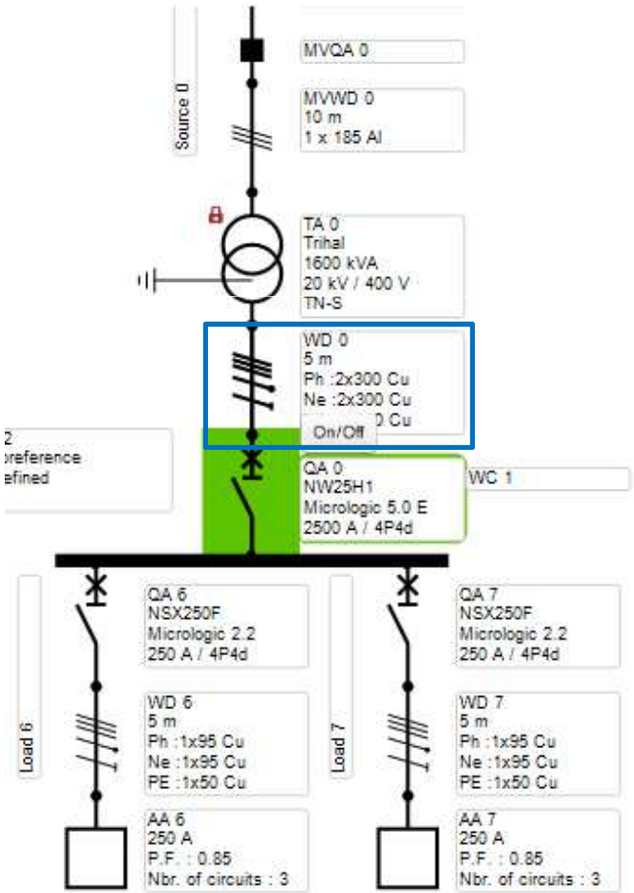
Micrologic 5.0 E

Missed values for the “Trip Setting” are corrected.

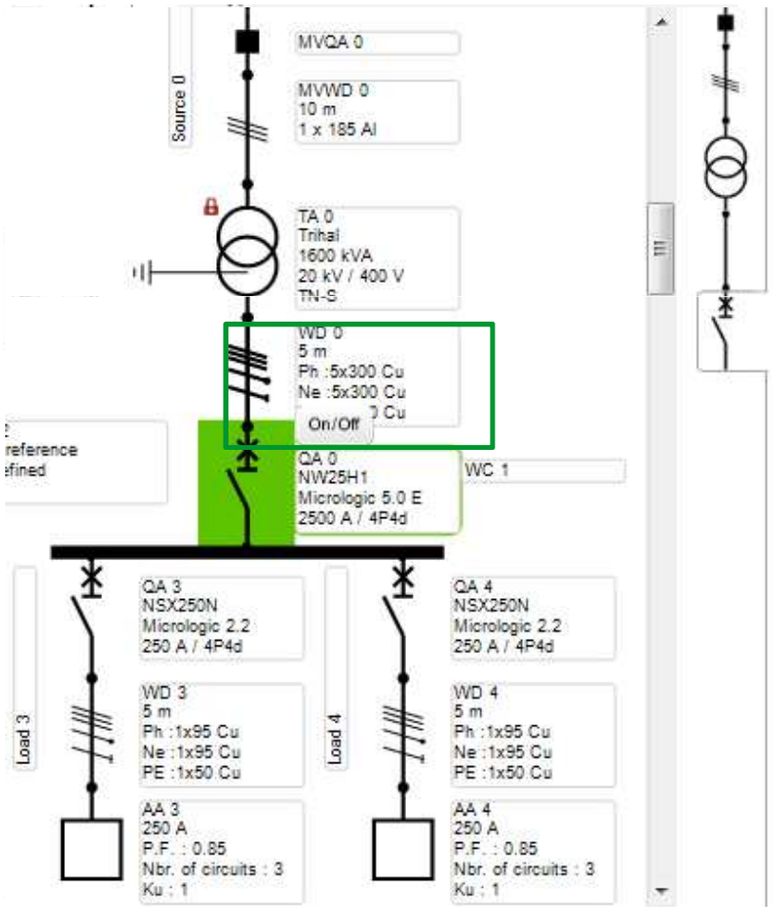
Micrologic 5.0 E

Missed values for the trip setting are corrected.

Version 4.7



Version 4.8



Ib (A)	2309
Device status	Closed
Withdrawable	Not required
Cascading	No
Motor mechanism	Not required
Residual-current protection	No

Solution

Circuit breaker

Type of standard	**Industrial**
Range	**Masterpact NW**
Circuit breaker	**NW25H1**
Rating (A)	**2500**
Breaking capacity (kA)	**65**
Poles	**4P4d**
Trip unit/Curve	**Micrologic 5.0 E**
Trip-unit rating (A)	**2500**
Long time (A)	**2375 (Setting: 0.95)**
Short time (A)	**19000 (Setting: 8)**
Withdrawable version	Available
Motor mechanism	Available

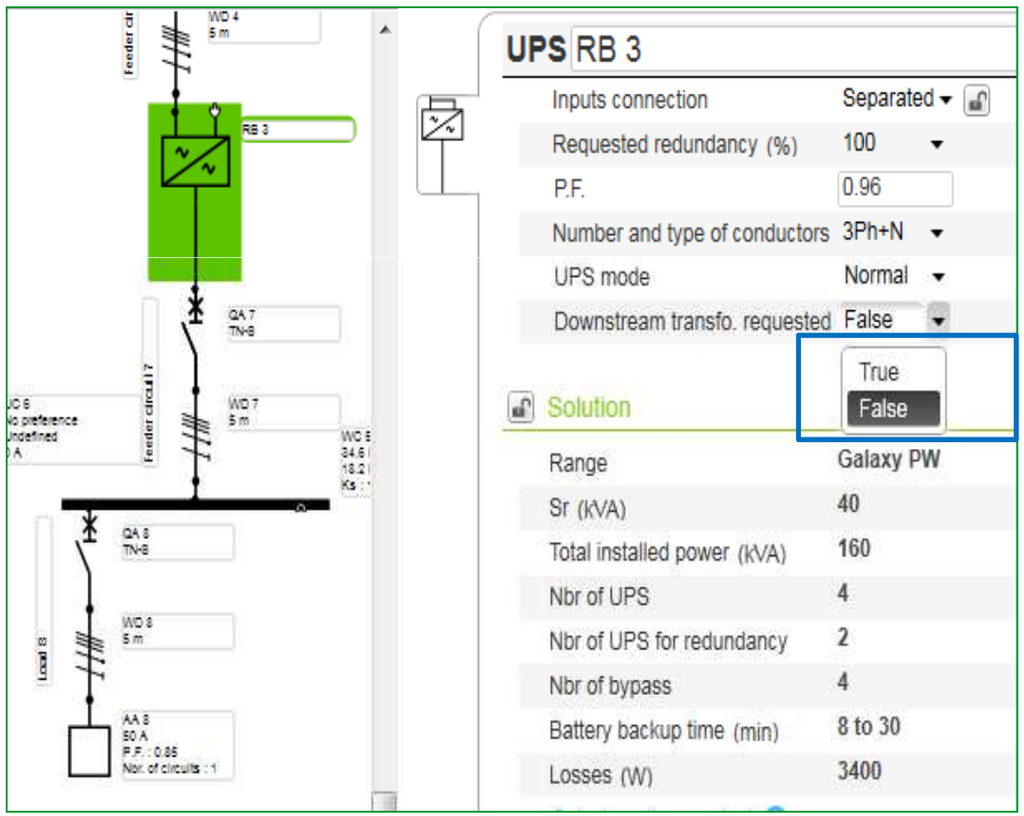
Select another product

Improvements to support the country versions

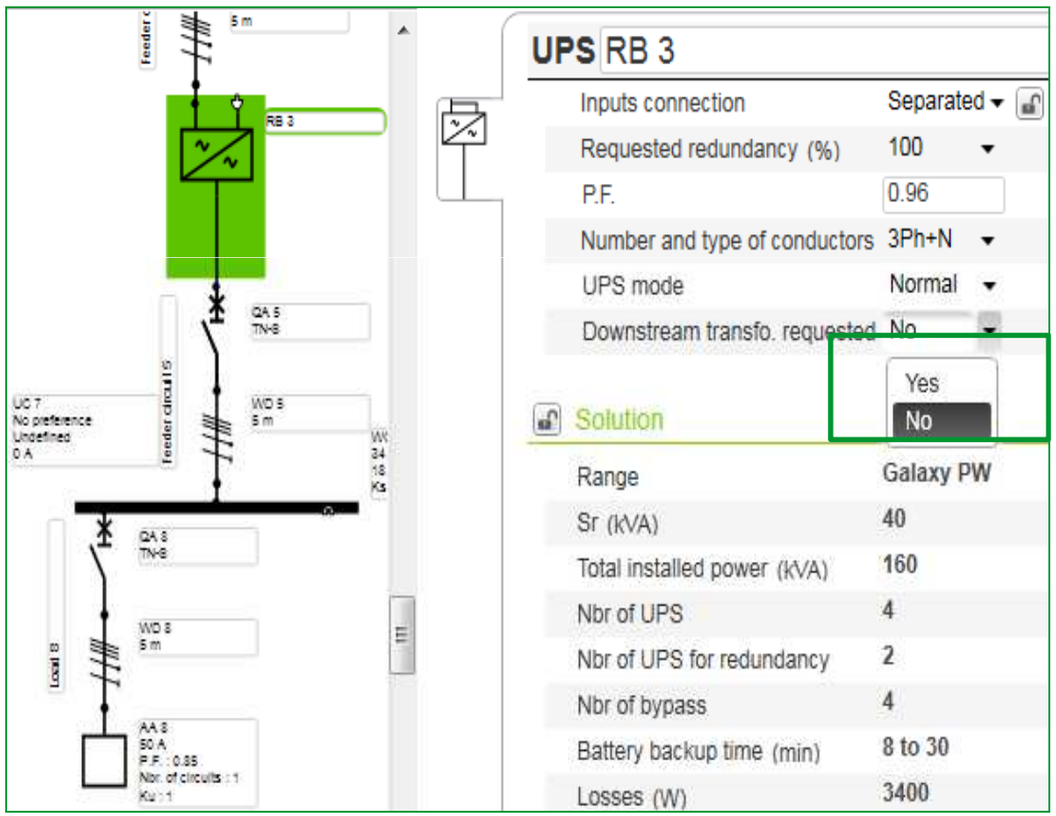
Following Improvements to support the country versions

The hard coded values are now translatable

Version 4.7



Version 4.8



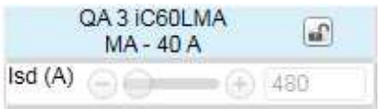
Improvement in reading the Isd value for ‘MA trip unit’

Version 4.7

Circuit breaker

Type of standard	**Industrial**
Range	**Acti9 iC60**
Circuit breaker	**iC60LMA**
Rating (A)	**40**
Breaking capacity (kA)	**15**
Poles	**3P3d**
Trip unit/Curve	**MA**
Trip-unit rating (A)	**40**
Short time (A)	**40**
Withdrawable version	Not available
Motor mechanism	Available

Version 4.8

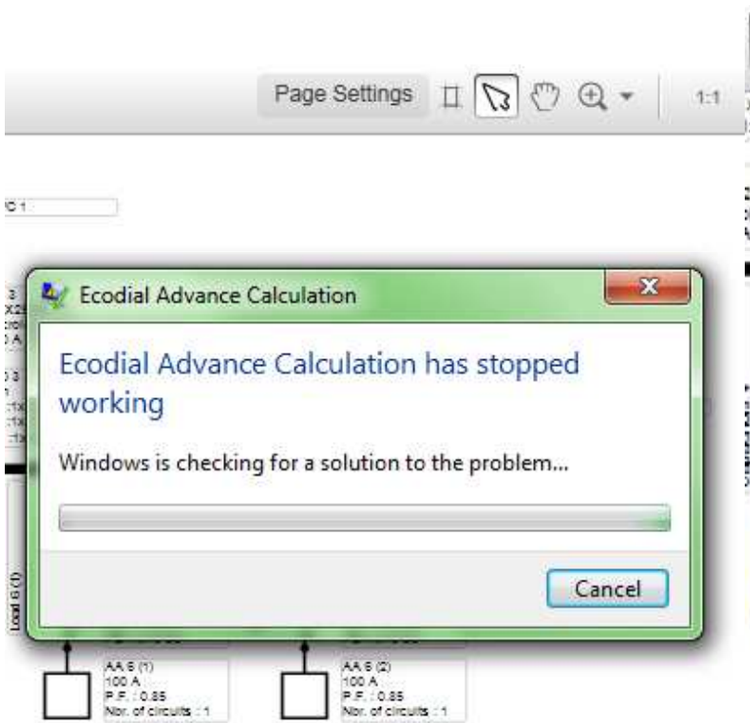


Circuit breaker

Type of standard	**Industrial**
Range	**Acti9 iC60**
Circuit breaker	**iC60LMA**
Rating (A)	**40**
Breaking capacity (kA)	**15**
Poles	**3P3d**
Trip unit/Curve	**MA**
Trip-unit rating (A)	**40**
Short time (A)	**480**
Withdrawable version	Not available
Motor mechanism	Available

Solution lock is disabled when there is ‘no solution found’

Version 4.7



Version 4.8