

[Help](#)

```
#ifndef __COMPANY_H
#define __COMPANY_H

#include "
href../../../../common/math/cdo/cdo_math_h_src.pdf cdo_math.h"
#include "
href../../../../common/math/cdo/structs_h_src.pdf structs.h"

typedef struct company
{
    double      nominal;
    step_fun     *h;
    step_fun     *H;
    double      mean_delta;
    pfun_void_R   *generate_delta;
    pfun_R_complex *phi_recov;
    void         *p_recovery;
} company;

typedef struct params_cov_unif
{
    double a;
    double b;
} params_recov_unif;

typedef struct params_cov_gauss
{
    double m;
    double s;
} params_recov_gauss;

company      *init_company(const double      nominal,
                           const int          intensity_n_step,
                           const double      *intensity_x,
                           const double      *intensity_h_x,
                           const double      mean_delta,
                           pfun_void_R       *generate_delta,
                           pfun_R_complex    *phi_recov,
```

```

                                void          *p_recovery);
company      *init_company_cov_cst(const double    nominal,
                                const int          intensity_n_step,
                                const double        *intensity_x,
                                const double        *intensity_h_x,
                                const double        delta);
company      *init_company_cov_unif(const double    nominal,
                                const int          intensity_n_step,
                                const double        *intensity_x,
                                const double        *intensity_h_x,
                                const double        a,
                                const double        b);
company      *init_company_cov_gauss(const double    nominal,
                                const int          intensity_n_step,
                                const double        *intensity_x,
                                const double        *intensity_h_x,
                                const double        m,
                                const double        s);

company      *homogenize_company(const company      *comp,
                                const double        new_nominal,
                                const double        new_delta);

void          free_company(company      *co);

#endif /* __COMPANY_H */

```