# **DOCUMENTATION TECHNIQUE**

# Projet

Projet	Projet
Concepteur	
Application	INDICATEURS.stu
Version logicielle	Control Expert V14.0
Date de création	Inconnu
Date de dernière modification	Inconnu
Automate cible	BME P58 3020 02.80UC 580-3 ETH - E/S distribuées

Auteur :		Imprimé le 15/05/2025
Service :	1 Page de titre	-
Projet :		Page : 1/42

#### **Sommaire**

1	Page de titre	1
2	Sommaire	2
3	Configuration	
	3.1 0 : Bus automate	
	3.1.1 0 : BME XBP 0800	
	3.1.1.1 0 (1) : BME P58 3020	
	3.2 2 : Bus EIO	
4	Types données dérivés	4
5	Types FB dérivés	5
	5.1 CALCUL_MTBF	
	5.1.1 Sections	
	5.1.1.1 Calcul_MTBF	
	5.2 CALCUL_MTTR	
	5.2.1 Sections	
	5.2.1.1 calcul_MTTR	
	5.3 CALCUL_TRS	
	5.3.1 Sections	
	5.3.1.1 calcul_DispOp	
	5.3.1.2 calcul_Tp	
	5.3.1.3 calcul_Tq	
	5.3.1.4 calcul_TRS	
	5.4 GEST_KM	
	5.4.1 Sections	
	5.4.1.1 gestion	
	5.5 GEST_YV	
	5.5.1 Sections	
	5.5.1.1 gestion	
6	Variables et instances FB	21
7	Structure du projet	36
8	Réseau Ethernet Aucune demande d'i	mpression
9	Programmes	38
	9.1 Tâches	
	9.1.1 MAST	
	9.1.1.1 Logique	
	9.1.1.1 Instanciation_KM	
	9.1.1.1.2 Instanciation_YV	
	9.1.1.1.3 Instanciation_TRS	
	9.1.1.4 Instanciation_MTBF_MTTR	

Auteur :		Imprimé le 15/05/2025
Service :	2 Sommaire	
Projet :		Page : 2/42

#### **Sommaire**

10 Mouvemen	t	 	 	
11 Référenc	es croisées	 	 	

Total: 41 pages

Auteur :		Imprimé le 15/05/2025
Service :	2 Sommaire	
Projet :		Page : 3/42

# Types données dérivés

Nom	Туре	Commentaire
STRUCT KM		
RAZ	BOOL	
CPT AV	INT	
CPT AR	INT	
CPT DEF	INT	
TPS AV	REAL	
TPS AR	REAL	
TPS_DEF	REAL	
STRUCT_TBF	<struct></struct>	
	BOOL	
Temps_fonct	REAL	
	INT	
MTBF	REAL	
	<struct></struct>	
S		
RAZ	BOOL	
DispOp	REAL	
Tq	REAL	
Тр	REAL	
TRS	REAL	
	<struct></struct>	
R		
RAZ	BOOL	
	REAL	
	INT	
MTTR	REAL	
	<struct></struct>	
	BOOL	
NB_SORTIE	INT	
NB_RENTRE	INT	
E		
NB_CAPT_S	INT	
ORTIE	DIE	
NB_CAPT_R	INT	
ENTREE CPT DEF	INT	
TPS SORTIE		
TPS_SORTIE TPS_RENTRE	KEAL DEAL	
E E E E E E E E E E E E E E E E E E E	KEAL	
TPS DEF	REAL	
II S_DEF	NEAL	

Auteur :		Imprimé le 15/05/2025
Service :	4 Types données dérivés	
Projet :		Page : 4/42

# Types FB dérivés

Nom	Version	Date
CALCUL_MTBF	0.01	15/05/2025 14:37:04
CALCUL_MTTR	0.01	15/05/2025 15:18:14
CALCUL_TRS	0.05	15/05/2025 14:19:35
GEST_KM	0.03	15/05/2025 11:41:42
GEST YV	0.05	15/05/2025 13:25:12

Auteur :		Imprimé le 15/05/2025
Service :	5 Types FB dérivés	
Projet :		Page : 5/42

# CALCUL\_MTBF

# Propriétés: Version:0.01

#### **Description fichier:**

#### <entrées>:

Nom	Туре	Valeur	Commentaire
ModeAuto	BOOL		

#### <sorties>:

Aucun

#### <entrées/sorties>:

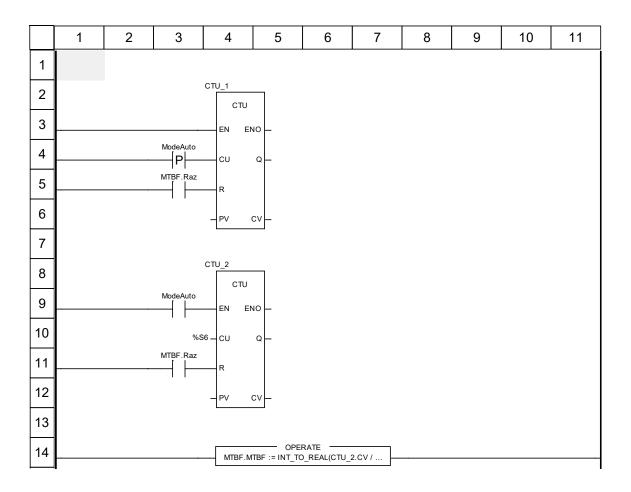
Nom	Туре	Valeur	Commentaire
MTBF	STRUCT_TBF		
Raz	BOOL		
Temps_fonct	REAL		
Nb_pannes	INT		
MTBF	REAL		

#### <public>:

Aucun

Auteur :	5 Types FB dérivés	Imprimé le 15/05/2025
Service :	5.1 CALCUL_MTBF	
Projet :		Page : 6/42

# Calcul\_MTBF < DFB> : [CALCUL\_MTBF]



#### Libellés tronqués:

Libellé	Position(s)
MTBF.MTBF = INT TO REAL(CTU 2.CV / CTU 1.CV);	(4, 14)

Auteur :	5.1.1 Sections	Imprimé le 15/05/2025
Service :	5.1.1.1 Calcul_MTBF	
Projet:		Page : 7/42

# CALCUL\_MTTR

#### Propriétés:

Version:0.01

#### **Description fichier:**

#### <entrées>:

Nom	Туре	Valeur	Commentaire
DefautActif	BOOL		

#### <sorties>:

Aucun

#### <entrées/sorties>:

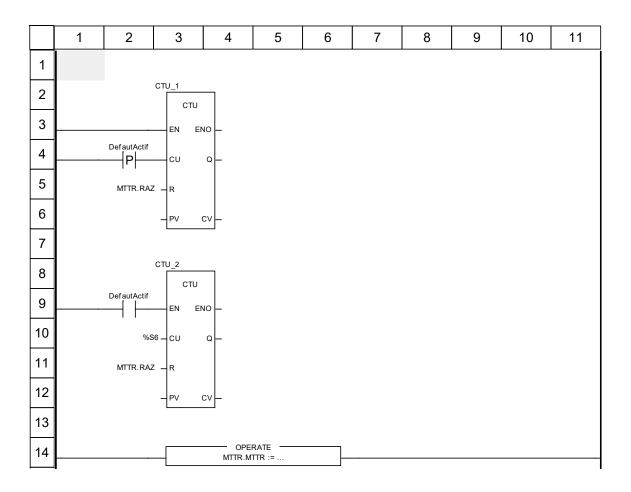
Nom	Туре	Valeur	Commentaire
MTTR	STRUCT_TTR		
RAZ	BOOL		
TempsDefaut	REAL		
nbReparation	INT		
MTTR	REAL		

#### <public>:

Aucun

Auteur :	5 Types FB dérivés	Imprimé le 15/05/2025
Service :	5.2 CALCUL_MTTR	
Projet :		Page : 8/42

# calcul\_MTTR <DFB> : [CALCUL\_MTTR]



#### Libellés tronqués:

Libellé	Position(s)
MTTR.MTTR := int to real(CTU 2.CV/CTU 1.CV);	(3, 14)

Auteur :	5.2.1 Sections	Imprimé le 15/05/2025
Service :	5.2.1.1 calcul_MTTR	
Projet :		Page : 9/42

# CALCUL\_TRS

# **Propriétés:** Version: 0.05

#### **Description fichier:**

#### <entrées>:

Nom	Туре	Valeur	Commentaire	
Nb piece prod	INT			
Nb_rebus	INT			
Defaut_actif	BOOL			
Mode_auto	BOOL			
Presence_palette	BOOL			
Presence_intercalaire	BOOL			
Presence carton	BOOL			

# <sorties>:

Aucun

#### <entrées/sorties>:

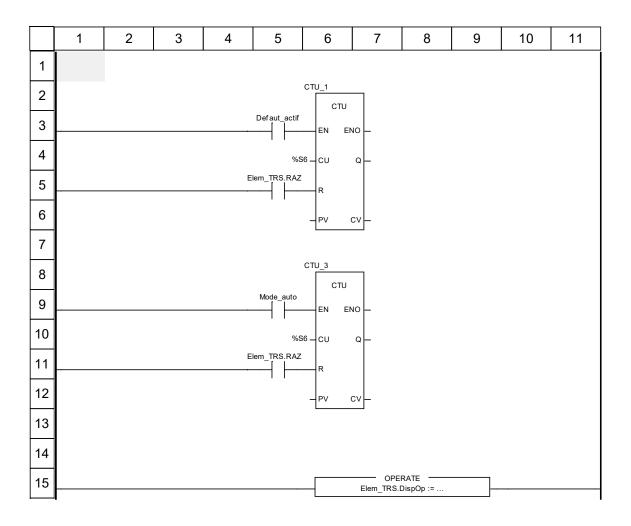
Nom	Туре	Valeur	Commentaire
Elem_TRS	STRUCT_TRS		
RAZ	BOOL		
DispOp	REAL		
Tq	REAL		
Тр	REAL		
TRS	REAL		

# <public>:

Aucun

Auteur :	5 Types FB dérivés	Imprimé le 15/05/2025
Service :	5.3 CALCUL_TRS	
Projet :		Page : 10/42

# calcul\_DispOp <DFB> : [CALCUL\_TRS]

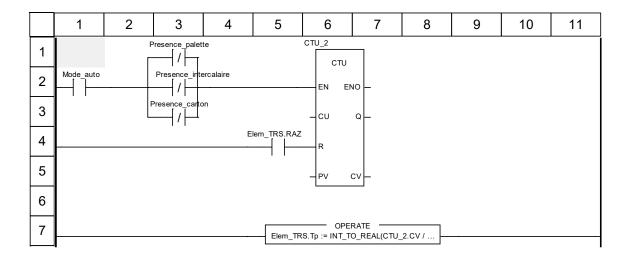


## Libellés tronqués:

Libellé	Position(s)
Elem_TRS.DispOp := INT_TO_REAL((CTU_3.CV) / (CTU_1.CV + CTU_3.CV));	(6, 15)

Auteur :	5.3.1 Sections	Imprimé le 15/05/2025
Service :	5.3.1.1 calcul_DispOp	
Projet :		Page : 11/42

# calcul\_Tp <DFB> : [CALCUL\_TRS]



## Libellés tronqués:

Libellé	Position(s)
Elem_TRS.Tp := INT_TO_REAL(CTU_2.CV / CTU_3.CV );	(5, 7)

Auteur :	5.3.1 Sections	Imprimé le 15/05/2025
Service :	5.3.1.2 calcul_Tp	
Projet :		Page : 12/42

# calcul\_Tq <DFB> : [CALCUL\_TRS]

Auteur :	5.3.1 Sections	Imprimé le 15/05/2025
Service :	5.3.1.3 calcul_Tq	
Projet :		Page: 13/42

# calcul\_TRS < DFB> : [CALCUL\_TRS]

```
1| 10| 20| 30| 40| 50| 60| 70| 80| 90| 100| 110|

1 Elem_TRS.TRS := Elem_TRS.Tp * Elem_TRS.Tq * Elem_TRS.DispOp;
2
3
4
```

Auteur :	5.3.1 Sections	Imprimé le 15/05/2025
Service :	5.3.1.4 calcul_TRS	
Projet :		Page : 14/42

## **GEST\_KM**

# Propriétés: Version:0.03

#### **Description fichier:**

#### <entrées>:

Nom	Туре	Valeur	Commentaire
KM_AV	BOOL		
KM_AR	BOOL		
DEF	BOOL		

# <sorties>: Aucun

#### <entrées/sorties>:

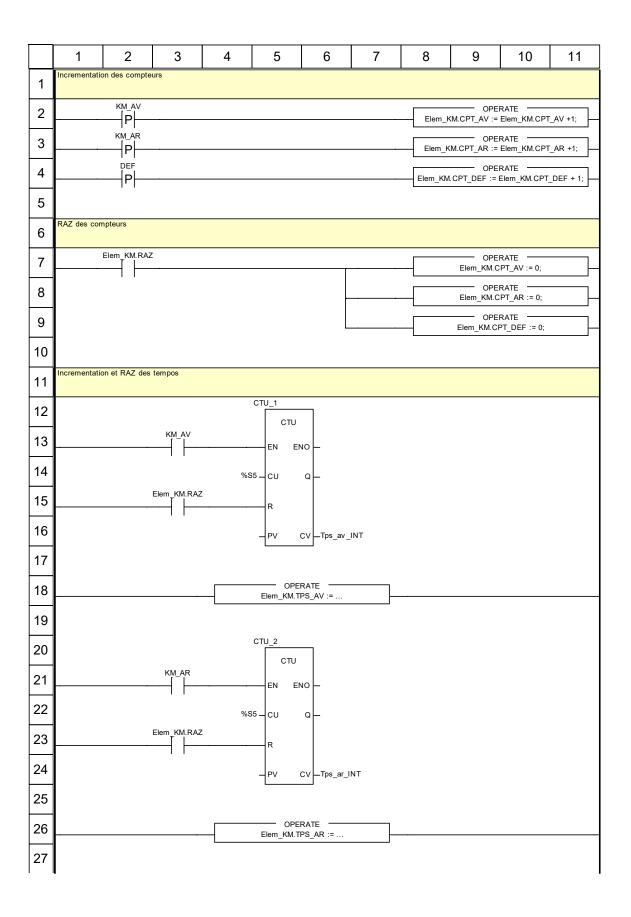
Nom	Туре	Valeur	Commentaire	
Elem_KM	STRUCT_KM			
RAZ	BOOL			
CPT_AV	INT			
CPT_AR	INT			
CPT_DEF	INT			
TPS_AV	REAL			
TPS_AR	REAL			
TPS DEF	REAL			

# <public>:

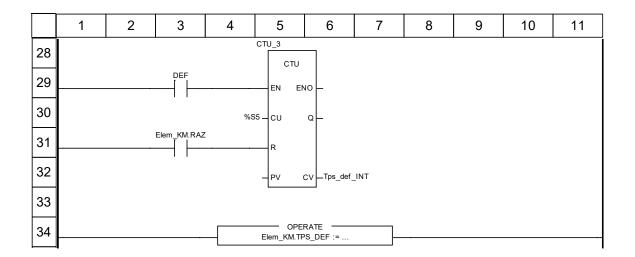
Aucun

Auteur :	5 Types FB dérivés	Imprimé le 15/05/2025
Service :	5.4 GEST_KM	
Projet :		Page : 15/42

# gestion <DFB> : [GEST\_KM]



Auteur :	5.4.1 Sections	Imprimé le 15/05/2025
Service :	5.4.1.1 gestion	
Projet :		Page : 16/42



## Libellés tronqués:

Libellé	Position(s)
Elem KM.TPS_AR := INT_TO_REAL(Tps_ar_INT);	(4, 26)
Elem KM.TPS_AV := INT_TO_REAL(Tps_av_INT);	(4, 18)
Elem KM.TPS DEF := INT TO REAL(Tps def INT);	(4, 34)

Auteur :	5.4.1 Sections	Imprimé le 15/05/2025
Service :	5.4.1.1 gestion	
Projet :		Page : 17/42

# **GEST\_YV**

# **Propriétés:** Version: 0.05

#### **Description fichier:**

#### <entrées>:

Nom	Туре	Valeur	Commentaire
YV_RENTREE	BOOL		
YV_SORTIE	BOOL		
DEF	BOOL		
FDC_RENTREE	BOOL		
FDC_SORTIE	BOOL		

# <sorties>: Aucun

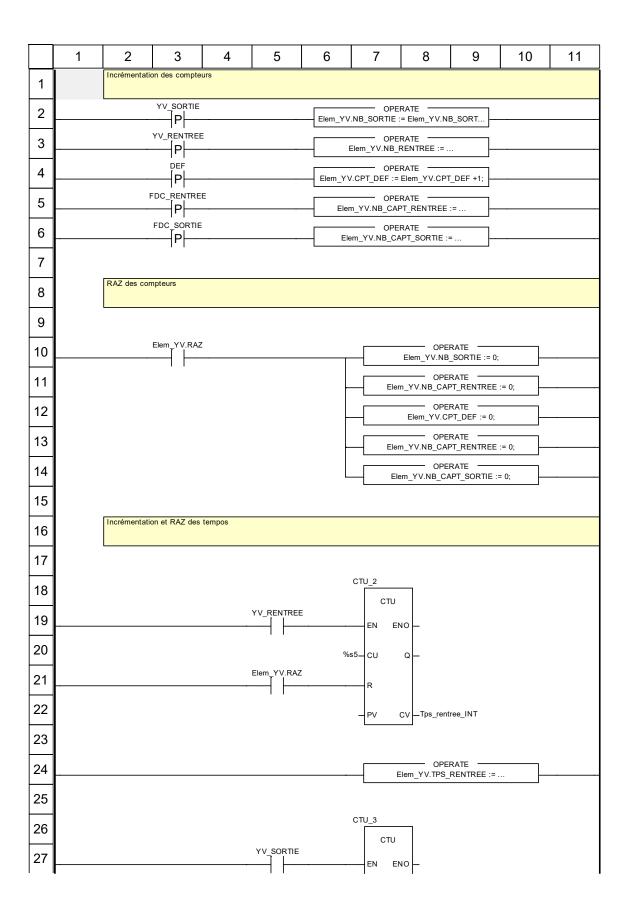
#### <entrées/sorties>:

Nom	Туре	Valeur	Commentaire
Elem_YV	STRUCT_YV		
RAZ	BOOL		
NB_SORTIE	INT		
NB_RENTREE	INT		
NB_CAPT_SORTIE	INT		
NB_CAPT_RENTREE	INT		
CPT_DEF	INT		
TPS_SORTIE	REAL		
TPS_RENTREE	REAL		
TPS_DEF	REAL		

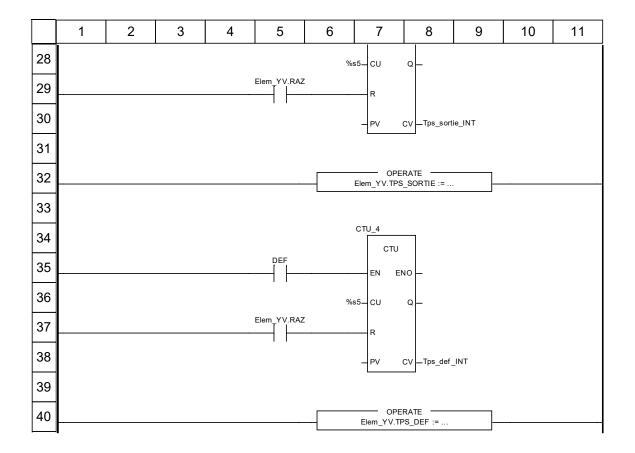
# <public>: Aucun

Auteur :	5 Types FB dérivés	Imprimé le 15/05/2025
Service:	5.5 GEST_YV	
Projet :		Page: 18/42

# gestion <DFB> : [GEST\_YV]



Auteur :	5.5.1 Sections	Imprimé le 15/05/2025
Service :	5.5.1.1 gestion	
Projet :		Page: 19/42



## Libellés tronqués:

Libellé	Position(s)
Elem_YV.NB_CAPT_RENTREE := Elem_YV.NB_CAPT_RENTREE +1;	(6, 5)
Elem_YV.NB_CAPT_SORTIE = Elem_YV.NB_CAPT_SORTIE +1;	(6, 6)
Elem_YV.NB_RENTREE := Elem_YV.NB_RENTREE +1;	(6, 3)
Elem_YV.NB_SORTIE := Elem_YV.NB_SORTIE + 1;	(6, 2)
Elem_YV.TPS_DEF := INT_TO_REAL(Tps_def_INT);	(6, 40)
Elem YV.TPS RENTREE := INT TO REAL(Tps rentree INT);	(7, 24)
Elem_YV.TPS_SORTIE := INT_TO_REAL(Tps_sortie_INT);	(6, 32)

Auteur :	5.5.1 Sections	Imprimé le 15/05/2025
Service :	5.5.1.1 gestion	
Projet :		Page : 20/42

#### **BOOL**

Nom	Const	Adresse	Commentaire	Valeur	Utilisé	DG
Defaut_Actif	NON				2	NO N
FDC1	NON		fin de course rentrée		1	NO N
FDC2	NON		fin de course sortie		1	NO N
KM1	NON		avant		1	NO N
KM2	NON		arriere		1	NO N
KM_DEFAUT	NON		defaut moteur		1	NO N
Mode_Auto_Actif	NON				2	NO N
Presence_Carton	NON				1	NO N
Presence_Intercalai re	NON				1	NO N
Presence_Palette	NON				1	NO N
YV1	NON		rentrée		1	NO N
YV2	NON		sortie		1	NO N
YV_DEFAUT	NON		defaut vérin		1	NO N

#### **CALCUL MTBF**

Nom	Commentaire		Valeur	Utilisé	DG
CALCUL MTBF 0				1	
<entrées></entrées>					
ModeAuto					
<entrées sorties=""></entrées>					
MTBF					
Raz					
Temps_fonct					
Nb_pannes		·			
MTBF					

#### **CALCUL MTTR**

Nom	Commentaire	Valeu	r Utilisé	DG
CALCUL_MTTR_0			1	
<entrées></entrées>				
DefautActif				
<entrées sorties=""></entrées>				
MTTR				
RAZ				
TempsDefaut				
nbReparation				
MTTR				

#### CALCUL TRS

Nom	Commentaire	Valeur	Utilisé	DG
CALCUL_TRS_0			0	
<entrées></entrées>				
Nb_piece_prod				

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page : 21/42

Nom	Commentaire	Valeur	Utilisé	DG
Nb_rebus				
Defaut actif				
Mode auto				
Presence_palette				
Presence_intercalaire				
Presence carton				
<entrées sorties=""></entrées>				
Elem_TRS				
RAZ				
DispOp				
Tq				
Тр				
TRS				
CALCUL_TRS_1			1	
<entrées></entrées>				
Nb_piece_prod				
Nb_rebus				
Defaut_actif				
Mode_auto				
Presence palette				
Presence intercalaire				
Presence_carton				
<entrées sorties=""></entrées>				
Elem_TRS				
RAZ				
DispOp				
Tq				
Тр				
TRS				

#### GEST KM

Nom	Commentaire	Valeur	Utilisé	DG
GEST_KM_0			1	
<entrées></entrées>				
KM_AV				
KM_AR				
DEF				
<entrées sorties=""></entrées>				
Elem_KM				
RAZ				
CPT_AV				
CPT_AR				
CPT_DEF				
TPS_AV				
TPS_AR				
TPS_DEF				

#### **GEST YV**

Nom	Commentaire	V	aleur	Utilisé	DG
GEST_YV_0				1	
<entrées></entrées>					
YV_RENTREE					
YV SORTIE					
DEF					
FDC_RENTREE					
FDC_SORTIE					
<entrées sorties=""></entrées>					
Elem_YV					
RAZ					

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page : 22/42

Nom	Commentaire	Valeur	Utilisé	DG
NB_SORTIE				
NB_RENTREE				
NB_CAPT_SORTIE				
NB_CAPT_RENTREE				
CPT_DEF				
TPS_SORTIE				
TPS_RENTREE				
TPS DEF				

#### INT

Nom	Const	Adresse	Commentaire	Valeur	Utilisé	DG
Nb_piece_prod	NON				1	NO
						N
Nb_rebus	NON			0	1	NO
						N

#### STRUCT KM

Nom	Const	Adresse	Commentaire	Utilisé
MAINT_KM1_KM2	NON			2
RAZ	NON			
CPT_AV	NON			
CPT_AR	NON			
CPT_DEF	NON			
TPS_AV	NON			
TPS_AR	NON			
TPS_DEF	NON			

#### STRUCT TBF

Nom	Const	Adresse	Commentaire	Utilisé
MAINT_MTBF_PALET	NON			2
TISEUR				
Raz	NON			
Temps_fonct	NON			
Nb pannes	NON			
MTBF	NON			

#### STRUCT TRS

Nom	Const	Adresse	Commentaire	Utilisé
MAINT_TRS_PALETT	NON			2
ISEUR				
RAZ	NON			
DispOp	NON			
Tq	NON			
Тр	NON			
TRS	NON			

#### STRUCT TTR

Nom	Const	Adresse	Commentaire	Utilisé
MAINT_MTTR_PALE	NON			2
TISEUR				
RAZ	NON			
TempsDefaut	NON			
nbReparation	NON			
MTTR	NON			

#### STRUCT YV

Nom	Const	Adresse	Commentaire	Utilisé
MAINT_YV1_YV2	NON			2

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page : 23/42
	1.4 1.66 (	· -

Nom	Const	Adresse	Commentaire	Utilisé
RAZ	NON			
NB_SORTIE	NON			
NB RENTREE	NON			
NB CAPT SORTIE	NON			
NB_CAPT_RENTREE	NON			
CPT_DEF	NON			
TPS_SORTIE	NON			
TPS_RENTREE	NON			
TPS DEF	NON			

#### T BMEP58 ECPU EXT

T BMEP58 ECPU				
Nom	Const	Adresse	Commentaire	Utilisé
BMEP58_ECPU_EXT	NON			0
ETH_STATUS	NON		Ethernet status	
PORT1_LINK	NON		Link up/down for Ethernet port 1	
PORT2_LINK	NON		Link up/down for Ethernet port 2	
PORT3_LINK	NON		Link up/down for Ethernet port 3	
ETH_BKP_PORT_LIN K	NON		Link up/down for Ethernet backplane port	
REDUNDANCY_STAT US	NON		Redundancy status / backup path available	
SCANNER_OK	NON		Scanner OK and scanning at least 1 equipment (if at least 1 equipment configured)	
GLOBAL_STATUS	NON		0: one or more services not operating normally / 1: all operational	
NETWORK_HEALTH	NON		1: No traffic overload detected / 0: Traffic overload detected (ex: broadcast storm). Check your network topology and configuration.	
SERVICE_STATUS	NON		One bit for each user-observable feature	
RSTP_SERVICE	NON		0: service not operating normally / 1: service operating normally or disabled	
PORT502_SERVICE	NON		0: service not operating normally / 1: service operating normally or disabled	
SNMP_SERVICE	NON		0: service not operating normally / 1: service operating normally or disabled	
MAIN_IP_ADDRESS_S TATUS	NON		Main IP address status (0 in case of duplicate IP or no IP assigned)	
ETH BKP FAILURE	NON		Ethernet backplane hardware status (0: failure, 1: OK)	
ETH_BKP_ERROR	NON		Ethernet backplane error (0: error, 1: OK)	
EIP_SCANNER	NON		0: service not operating normally / 1: service operating normally or disabled	
MODBUS_SCANNER	NON		0: service not operating normally / 1: service operating normally or disabled	
NTP_SERVER	NON		0: service not operating normally / 1: service operating normally or disabled	
SNTP_CLIENT	NON		0: service not operating normally / 1: service operating normally or disabled	
WEB_SERVER	NON		0: service not operating normally / 1: service operating normally or disabled	
FIRMWARE_UPGRAD E	NON		0: service not operating normally / 1: service operating normally or disabled	
FTP	NON		0: service not operating normally / 1: service operating normally or disabled	
FDR_SERVER	NON		0: service not operating normally / 1: service operating normally or disabled	
EIP_ADAPTER	NON		EIP adapter (server) service 0: service not operating normally / 1: service operating normally or disabled	
SERVICE STATUS2	NON		One bit for each user-observable feature	
_			IP address A/B status (0 in case of duplicate IP or no IP assigned)	

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page : 24/42

LLDP SERVICE   NON   LLDP service status	Nom	Const	Adresse	Commentaire	Utilisé
EVENT_LOG_STATUS   On   One-went log service not operating normally / 1: event log service porturing normally / 1: event log service operating normally / 1: event log service / 0: otherwise   ETH_PORT3_BEP_ST_NON   Eithern port 1 and 2 status   ETH_PORT3_BEP_ST_NON   Eithern port 1 and 2 status   ETH_PORT3_BEP_ST_NON   Eithern port 1 and 2 status   ETH_PORT3_BEP_ST_NON   Number of packets received on interface   IN_PACKETS_NON   Number of packets received on interface   IN_PACKETS_NON   Number of packets section interface   IN_PACKETS_NON   Number of inbound packets that contain errors   OUT_PACKETS_NON   Number of packets section interface   IN_PACKETS_NON   Number of p			- 10.000		
Log Serveir Non				0: event log service not operating normally / 1: event log	
EACHABLE	LOG GERVER 310T -	21027			
Ethernet port 1 and 2 status		NON			
Ethernet port 3 and backplane port status	ETH_PORT_1_2_STAT	NON			
ATUS					
FDR USAGE		NON		Ethernet port 3 and backplane port status	
IN PACKETS		NON		% of FDR server usage	
IN ERRORS					
OUT PACKETS         NON         Number of packets sent on interface           OUT ERRORS         NON         Number of outbound packets that contain errors           CONF, SIG         NON         Signature of all files on local module FDR Server           DROP HEALTH         NON         DROP health bits (Drop 1 to 31)           DROP HEALTH[1]         NON         NON           DROP HEALTH[2]         NON         DROP HEALTH[3]           DROP HEALTH[3]         NON         DROP HEALTH[4]           DROP HEALTH[6]         NON         DROP HEALTH[6]           DROP HEALTH[7]         NON         DROP HEALTH[8]           DROP HEALTH[1]         NON         DROP HEALTH[1]           DROP HEALTH[1]         NON         DROP HEALTH[2]					
OUT FERORS		NON			
DROP   HEALTH    NON   DROP   health bits (Drop 1 to 31)		NON			
DROP   HEALTH 1   NON   NON   DROP   HEALTH 2   NON   DROP   HEALTH 3   NON   DROP   HEALTH 3   NON   DROP   HEALTH 5   NON   DROP   HEALTH 5   NON   DROP   HEALTH 6   NON   DROP   HEALTH 6   NON   DROP   HEALTH 6   NON   DROP   HEALTH 6   NON   DROP   HEALTH 8   NON   DROP   HEALTH 10   NON   DROP   HEALTH 11   NON   DROP   HEALTH 11   NON   DROP   HEALTH 11   NON   DROP   HEALTH 12   NON   DROP   HEALTH 13   NON   DROP   HEALTH 15   NON   DROP   HEALTH 16   NON   DROP   HEALTH 17   NON   DROP   HEALTH 18   NON   DROP   HEALTH 19   NON   DROP   HEALTH 21   NON   DROP   HEALTH 21   NON   DROP   HEALTH 21   NON   DROP   HEALTH 21   NON   DROP   HEALTH 22   NON   DROP   HEALTH 23   NON   DROP   HEALTH 24   NON   DROP   HEALTH 25   NON   DROP   HEALTH 26   NON   DROP   HEALTH 27   NON   DROP   HEALTH 28   NON   DROP   HEALTH 29   NON   DROP   HEALTH 29   NON   DROP   HEALTH 21   NON   DROP   HEALTH 25   NON   DROP   HEALTH 21   NON   DROP   HEALTH 21   NON   DROP   HEALTH 21   NON   DROP   HEALTH 21   NON   DROP   HEALTH 25   NON	CONF SIG	NON			
DROP   HEALTH[2]   NON   NON   DROP   HEALTH[4]   NON   DROP   HEALTH[4]   NON   DROP   HEALTH[5]   NON   DROP   HEALTH[6]   NON   DROP   HEALTH[6]   NON   DROP   HEALTH[7]   NON   DROP   HEALTH[8]   NON   DROP   HEALTH[9]   NON   DROP   HEALTH[10]   NON   DROP   HEALTH[11]   NON   DROP   HEALTH[12]   NON   DROP   HEALTH[12]   NON   DROP   HEALTH[13]   NON   DROP   HEALTH[14]   NON   DROP   HEALTH[15]   NON   DROP   HEALTH[16]   NON   DROP   HEALTH[17]   NON   DROP   HEALTH[18]   NON   DROP   HEALTH[18]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[21]   NON   DROP   HEALTH[21]   NON   DROP   HEALTH[22]   NON   DROP   HEALTH[23]   NON   DROP   HEALTH[24]   NON   DROP   HEALTH[25]   NON   DROP   HEALTH[26]   NON   DROP   HEALTH[27]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[26]   NON   DROP   HEALTH[27]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[257]   NON   DROP   HEALTH[257]   NON   RIO   HEALTH[257]   NON   RIO   HEALTH[258]   NON   RIO   HEALTH[257]   NON   RIO   HEALTH[257]   NON   RIO   HEALTH[257]	DROP HEALTH	NON		DROP health bits (Drop 1 to 31)	
DROP   HEALTH[3]   NON   DROP   HEALTH[4]   NON   DROP   HEALTH[5]   NON   DROP   HEALTH[6]   NON   DROP   HEALTH[7]   NON   DROP   HEALTH[7]   NON   DROP   HEALTH[8]   NON   DROP   HEALTH[10]   NON   DROP   HEALTH[11]   NON   DROP   HEALTH[11]   NON   DROP   HEALTH[12]   NON   DROP   HEALTH[13]   NON   DROP   HEALTH[14]   NON   DROP   HEALTH[15]   NON   DROP   HEALTH[16]   NON   DROP   HEALTH[16]   NON   DROP   HEALTH[17]   NON   DROP   HEALTH[18]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[12]   NON   DROP   HEALTH[21]   NON   DROP   HEALTH[21]   NON   DROP   HEALTH[22]   NON   DROP   HEALTH[23]   NON   DROP   HEALTH[24]   NON   DROP   HEALTH[25]   NON   DROP   HEALTH[25]   NON   DROP   HEALTH[26]   NON   DROP   HEALTH[27]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[27]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[258]   NON   DRO	DROP_HEALTH[1]	NON			
DROP   HEALTH[3]   NON     DROP   HEALTH[4]   NON     DROP   HEALTH[5]   NON     DROP   HEALTH[6]   NON     DROP   HEALTH[7]   NON     DROP   HEALTH[8]   NON     DROP   HEALTH[9]   NON     DROP   HEALTH[10]   NON     DROP   HEALTH[10]   NON     DROP   HEALTH[11]   NON     DROP   HEALTH[12]   NON     DROP   HEALTH[13]   NON     DROP   HEALTH[14]   NON     DROP   HEALTH[15]   NON     DROP   HEALTH[16]   NON     DROP   HEALTH[17]   NON     DROP   HEALTH[18]   NON     DROP   HEALTH[19]   NON     DROP   HEALTH[19]   NON     DROP   HEALTH[19]   NON     DROP   HEALTH[10]   NON     DROP   HEALTH[21]   NON     DROP   HEALTH[21]   NON     DROP   HEALTH[23]   NON     DROP   HEALTH[24]   NON     DROP   HEALTH[25]   NON     DROP   HEALTH[25]   NON     DROP   HEALTH[26]   NON     DROP   HEALTH[27]   NON     DROP   HEALTH[28]   NON     DROP   HEALTH[29]   NON     DROP   HEALTH[25]   NON     DROP	DROP_HEALTH[2]	NON			
DROP   HEALTH[5]   NON     DROP   HEALTH[6]   NON     DROP   HEALTH[7]   NON     DROP   HEALTH[8]   NON     DROP   HEALTH[9]   NON     DROP   HEALTH[10]   NON     DROP   HEALTH[11]   NON     DROP   HEALTH[11]   NON     DROP   HEALTH[12]   NON     DROP   HEALTH[13]   NON     DROP   HEALTH[14]   NON     DROP   HEALTH[15]   NON     DROP   HEALTH[16]   NON     DROP   HEALTH[17]   NON     DROP   HEALTH[18]   NON     DROP   HEALTH[19]   NON     DROP   HEALTH[19]   NON     DROP   HEALTH[19]   NON     DROP   HEALTH[21]   NON     DROP   HEALTH[21]   NON     DROP   HEALTH[22]   NON     DROP   HEALTH[23]   NON     DROP   HEALTH[24]   NON     DROP   HEALTH[25]   NON     DROP   HEALTH[26]   NON     DROP   HEALTH[27]   NON     DROP   HEALTH[28]   NON     DROP   HEALTH[29]   NON     DROP		NON			
DROP   HEALTH[6]   NON   NON   DROP   HEALTH[7]   NON   NON   DROP   HEALTH[8]   NON   DROP   HEALTH[9]   NON   DROP   HEALTH[10]   NON   DROP   HEALTH[11]   NON   DROP   HEALTH[11]   NON   DROP   HEALTH[12]   NON   DROP   HEALTH[13]   NON   DROP   HEALTH[14]   NON   DROP   HEALTH[15]   NON   DROP   HEALTH[15]   NON   DROP   HEALTH[16]   NON   DROP   HEALTH[17]   NON   DROP   HEALTH[17]   NON   DROP   HEALTH[18]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[20]   NON   DROP   HEALTH[21]   NON   DROP   HEALTH[21]   NON   DROP   HEALTH[22]   NON   DROP   HEALTH[23]   NON   DROP   HEALTH[24]   NON   DROP   HEALTH[25]   NON   DROP   HEALTH[26]   NON   DROP   HEALTH[27]   NON   DROP   HEALTH[26]   NON   DROP   HEALTH[27]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[18]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[257]   NON   DROP   HEALTH[257]   NON   RIO   HEALTH[258]   NON   RIO					
DROP   HEALTH[7]   NON   NON   DROP   HEALTH[8]   NON   NON   DROP   HEALTH[9]   NON   DROP   HEALTH[10]   NON   DROP   HEALTH[11]   NON   DROP   HEALTH[12]   NON   DROP   HEALTH[13]   NON   DROP   HEALTH[14]   NON   DROP   HEALTH[15]   NON   DROP   HEALTH[15]   NON   DROP   HEALTH[16]   NON   DROP   HEALTH[17]   NON   DROP   HEALTH[17]   NON   DROP   HEALTH[18]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[12]   NON   DROP   HEALTH[21]   NON   DROP   HEALTH[22]   NON   DROP   HEALTH[23]   NON   DROP   HEALTH[24]   NON   DROP   HEALTH[25]   NON   DROP   HEALTH[25]   NON   DROP   HEALTH[26]   NON   DROP   HEALTH[27]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[30]   NON   DROP   HEALTH[31]   NON   RIO   HEALTH[257]   NON   RIO   HEALTH[258]   NON   RIO   H		NON			
DROP   HEALTH[8]   NON   NON   DROP   HEALTH[10]   NON   NON   DROP   HEALTH[11]   NON   DROP   HEALTH[11]   NON   DROP   HEALTH[12]   NON   DROP   HEALTH[13]   NON   DROP   HEALTH[15]   NON   DROP   HEALTH[16]   NON   DROP   HEALTH[16]   NON   DROP   HEALTH[17]   NON   DROP   HEALTH[18]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[20]   NON   DROP   HEALTH[21]   NON   DROP   HEALTH[21]   NON   DROP   HEALTH[22]   NON   DROP   HEALTH[23]   NON   DROP   HEALTH[24]   NON   DROP   HEALTH[25]   NON   DROP   HEALTH[26]   NON   DROP   HEALTH[27]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[257]   NON   RIO   HEALTH[257]   NON   RIO   HEALTH[258]   RIO   RI					
DROP   HEALTH[9]   NON   NON   DROP   HEALTH[10]   NON   NON   DROP   HEALTH[11]   NON   DROP   HEALTH[12]   NON   DROP   HEALTH[13]   NON   DROP   HEALTH[14]   NON   DROP   HEALTH[15]   NON   DROP   HEALTH[16]   NON   DROP   HEALTH[17]   NON   DROP   HEALTH[18]   NON   DROP   HEALTH[18]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[20]   NON   DROP   HEALTH[21]   NON   DROP   HEALTH[21]   NON   DROP   HEALTH[23]   NON   DROP   HEALTH[24]   NON   DROP   HEALTH[25]   NON   DROP   HEALTH[25]   NON   DROP   HEALTH[26]   NON   DROP   HEALTH[27]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[30]   NON   DROP   HEALTH[31]   NON   RIO   HEALTH[357]   NON   RIO   HEALTH[257]   NON   RIO   HEALTH[258]   NON   RIO					
DROP   HEALTH[10]   NON   DROP   HEALTH[11]   NON   DROP   HEALTH[12]   NON   DROP   HEALTH[13]   NON   DROP   HEALTH[14]   NON   DROP   HEALTH[15]   NON   DROP   HEALTH[16]   NON   DROP   HEALTH[16]   NON   DROP   HEALTH[18]   NON   DROP   HEALTH[18]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[19]   NON   DROP   HEALTH[20]   NON   DROP   HEALTH[21]   NON   DROP   HEALTH[22]   NON   DROP   HEALTH[23]   NON   DROP   HEALTH[24]   NON   DROP   HEALTH[25]   NON   DROP   HEALTH[25]   NON   DROP   HEALTH[26]   NON   DROP   HEALTH[27]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[29]   NON   DROP   HEALTH[28]   NON   DROP   HEALTH[27]   NON   DROP   HEALTH[28]   NON   RIO   HEALTH   NON   RIO   HEALTH   NON   RIO   HEALTH[257]   NON   RIO   HEALTH[257]   NON   RIO   HEALTH[258]   RIO   RIO   RIO   RIO   RIO   RI					
DROP   HEALTH[11]   NON					
DROP_HEALTH[12] NON   DROP_HEALTH[13] NON   DROP_HEALTH[14] NON   DROP_HEALTH[15] NON   DROP_HEALTH[16] NON   DROP_HEALTH[17] NON   DROP_HEALTH[17] NON   DROP_HEALTH[18] NON   DROP_HEALTH[19] NON   DROP_HEALTH[20] NON   DROP_HEALTH[21] NON   DROP_HEALTH[21] NON   DROP_HEALTH[22] NON   DROP_HEALTH[23] NON   DROP_HEALTH[24] NON   DROP_HEALTH[25] NON   DROP_HEALTH[25] NON   DROP_HEALTH[26] NON   DROP_HEALTH[27] NON   DROP_HEALTH[27] NON   DROP_HEALTH[28] NON   DROP_HEALTH[29] NON   DROP_HEALTH[25] NON   DROP_HEALTH[25] NON   DROP_HEALTH[27] NON   DROP_HEALTH[27] NON   DROP_HEALTH[28] NON   DROP_HEALTH[29] NON   DROP_HEALTH[29] NON   RIO HEALTH[31] NON   RIO HEALTH[32] NON   RIO HEALTH[328] NON   RIO HEALTH[357] NON   RIO HEALTH[357] NON   RIO HEALTH[358] NON					
DROP   HEALTH   13   NON					
DROP   HEALTH[14]   NON					
DROP   HEALTH[15]   NON					
DROP   HEALTH[16]   NON					
DROP   HEALTH[17]   NON					
DROP   HEALTH[18]   NON					
DROP   HEALTH[19]   NON					
DROP   HEALTH[20]   NON     DROP   HEALTH[21]   NON     DROP   HEALTH[22]   NON     DROP   HEALTH[23]   NON     DROP   HEALTH[24]   NON     DROP   HEALTH[25]   NON     DROP   HEALTH[26]   NON     DROP   HEALTH[27]   NON     DROP   HEALTH[27]   NON     DROP   HEALTH[28]   NON     DROP   HEALTH[29]   NON     DROP   HEALTH[30]   NON     DROP   HEALTH[31]   NON     RIO   HEALTH   NON     RIO   HEALTH[257]   NON     RIO   HEALTH[258]   NON					
DROP   HEALTH   21   NON   NON   DROP   HEALTH   22   NON   NON   DROP   HEALTH   23   NON   NON   DROP   HEALTH   24   NON   NON   DROP   HEALTH   25   NON   NON   DROP   HEALTH   26   NON   NON   DROP   HEALTH   27   NON   DROP   HEALTH   28   NON   DROP   HEALTH   29   NON   DROP   HEALTH   30   NON   DROP   HEALTH   31   NON   NON   DROP   HEALTH   31   NON   RIO   HEALTH   NON   RIO   HEALTH   NON   RIO   HEALTH   NON   RIO   HEALTH   1257   NON   RIO   HEALTH   1258   NON   NON   NON   RIO   HEALTH   1258   NON   NON   NON   NON   NON   NON   RIO   HEALTH   1258   NON   N					
DROP HEALTH[22]         NON           DROP HEALTH[23]         NON           DROP HEALTH[24]         NON           DROP HEALTH[25]         NON           DROP HEALTH[26]         NON           DROP HEALTH[27]         NON           DROP HEALTH[28]         NON           DROP HEALTH[29]         NON           DROP HEALTH[30]         NON           DROP HEALTH[31]         NON           RIO HEALTH         NON           RIO HEALTH[257]         NON           RIO HEALTH[258]         NON					
DROP_HEALTH[23]         NON           DROP_HEALTH[24]         NON           DROP_HEALTH[25]         NON           DROP_HEALTH[26]         NON           DROP_HEALTH[27]         NON           DROP_HEALTH[28]         NON           DROP_HEALTH[29]         NON           DROP_HEALTH[30]         NON           DROP_HEALTH[31]         NON           RIO_HEALTH         NON           RIO_HEALTH[257]         NON           RIO_HEALTH[258]         NON					
DROP HEALTH[24]         NON           DROP HEALTH[25]         NON           DROP HEALTH[26]         NON           DROP HEALTH[27]         NON           DROP HEALTH[28]         NON           DROP HEALTH[29]         NON           DROP HEALTH[30]         NON           DROP HEALTH[31]         NON           RIO HEALTH         NON           RIO HEALTH[257]         NON           RIO HEALTH[258]         NON					
DROP HEALTH[25]         NON           DROP HEALTH[26]         NON           DROP HEALTH[27]         NON           DROP HEALTH[28]         NON           DROP HEALTH[29]         NON           DROP HEALTH[30]         NON           DROP HEALTH[31]         NON           RIO HEALTH         NON           RIO HEALTH[257]         NON           RIO HEALTH[258]         NON					
DROP HEALTH[26]         NON           DROP_HEALTH[27]         NON           DROP HEALTH[28]         NON           DROP HEALTH[29]         NON           DROP HEALTH[30]         NON           DROP HEALTH[31]         NON           RIO HEALTH         NON           RIO HEALTH[257]         NON           RIO HEALTH[258]         NON					
DROP HEALTH[27] NON  DROP HEALTH[28] NON  DROP HEALTH[29] NON  DROP HEALTH[30] NON  DROP HEALTH[31] NON  RIO HEALTH  RIO HEALTH  RIO HEALTH  RIO HEALTH[257] NON  RIO HEALTH[258] NON					
DROP HEALTH[28] NON DROP HEALTH[29] NON DROP HEALTH[30] NON DROP HEALTH[31] NON RIO HEALTH NON RIO HEALTH NON RIO HEALTH[257] NON RIO HEALTH[258] NON					
DROP HEALTH[29] NON  DROP HEALTH[30] NON  DROP HEALTH[31] NON  RIO HEALTH NON RIO health bits (1 bit per RIO up to 128)  RIO HEALTH[257] NON  RIO HEALTH[258] NON					
DROP HEALTH[30] NON  DROP HEALTH[31] NON  RIO HEALTH NON RIO health bits (1 bit per RIO up to 128)  RIO HEALTH[257] NON  RIO HEALTH[258] NON					
DROP HEALTH[31] NON  RIO HEALTH NON RIO health bits (1 bit per RIO up to 128)  RIO HEALTH[257] NON  RIO HEALTH[258] NON					
RIO HEALTH NON RIO health bits (1 bit per RIO up to 128)  RIO HEALTH[257] NON  RIO HEALTH[258] NON					
RIO HEALTH[257] NON RIO HEALTH[258] NON				RIO health bits (1 bit per RIO up to 128)	
RIO HEALTH[258] NON					
RIO HEALTH[260] NON	RIO_HEALTH[260]	NON			
RIO HEALTH[261] NON					
RIO_HEALTH[262] NON	RIO_HEALTH[262]	NON			
RIO_HEALTH[263] NON					
RIO_HEALTH[264] NON		1			
RIO HEALTH[265] NON					
RIO_HEALTH[266] NON					
RIO HEALTH[267] NON	RIO_HEALTH[267]	NON			

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page : 25/42

Nom	Const	Adresse	Commentaire	Utilisé
RIO HEALTH[268]	NON	raresse	Commentation	Othise
RIO HEALTH[269]	NON			
RIO HEALTH[270]	NON			
RIO HEALTH[271]	NON			
RIO HEALTH[272]	NON			
RIO_HEALTH[273]	NON			
RIO_HEALTH[274]	NON			
RIO_HEALTH[274]	NON			
RIO HEALTH[275]	NON			
RIO_HEALTH[277]	NON			
RIO HEALTH[277]	NON			
RIO HEALTH[279]	NON			
RIO HEALTH[280]	NON			
	NON			
RIO_HEALTH[281]	NON			
RIO_HEALTH[282]	NON			
RIO_HEALTH[283] RIO_HEALTH[284]				
	NON			
RIO_HEALTH[285]	NON			
RIO_HEALTH[286]	NON			
RIO HEALTH[287]	NON			
RIO_HEALTH[288]	NON			
RIO_HEALTH[289]	NON			
RIO_HEALTH[290]	NON	_		
RIO_HEALTH[291]	NON			
RIO_HEALTH[292]	NON			
RIO_HEALTH[293]	NON			
RIO_HEALTH[294]	NON			
RIO_HEALTH[295]	NON			
RIO HEALTH[296]	NON			
RIO_HEALTH[297]	NON	+		
RIO HEALTH[298]	NON			
RIO_HEALTH[299]	NON			
RIO_HEALTH[300]	NON			
RIO_HEALTH[301]	NON			
RIO_HEALTH[302]	NON			
RIO_HEALTH[303]	NON			
RIO_HEALTH[304]	NON			
RIO_HEALTH[305]	NON			
RIO_HEALTH[306]	NON			
RIO_HEALTH[307]	NON			
RIO_HEALTH[308]	NON			
RIO_HEALTH[309]	NON			
RIO_HEALTH[310]	NON			
RIO_HEALTH[311]	NON			
RIO_HEALTH[312]	NON			
RIO_HEALTH[313]	NON			
RIO HEALTH[314] RIO HEALTH[315]	NON			
	NON			
RIO HEALTH[316]	NON			
RIO_HEALTH[317]	NON			
RIO_HEALTH[318]	NON			
RIO_HEALTH[319]	NON			
RIO_HEALTH[320]	NON			
RIO_HEALTH[321]	NON			
RIO_HEALTH[322]	NON			
RIO_HEALTH[323]	NON			
RIO_HEALTH[324]	NON			
RIO_HEALTH[325]	NON			
RIO_HEALTH[326]	NON			

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page : 26/42

Nom	Const	Adresse	Commentaire	Utilisé
RIO HEALTH[327]	NON	TRITOSSO	Commence	C that's
RIO HEALTH[328]	NON			
RIO HEALTH[329]	NON			
RIO HEALTH[330]	NON			
RIO HEALTH[331]	NON			
RIO HEALTH[332]	NON			
RIO HEALTH[333]	NON			
RIO HEALTH[334]	NON			
RIO HEALTH[335]	NON			
RIO HEALTH[336]	NON			
RIO HEALTH[337]	NON			
RIO HEALTH[338]	NON			
RIO HEALTH[339]	NON			
RIO HEALTH[340]	NON			
RIO HEALTH[341]	NON			
RIO HEALTH[342]	NON			
RIO_HEALTH[343]	NON			
RIO_HEALTH[344]	NON			
RIO_HEALTH[345]	NON			
RIO HEALTH[346]	NON			
RIO_HEALTH[347]	NON			
RIO_HEALTH[348]	NON			
RIO_HEALTH[349]	NON			
RIO_HEALTH[350]	NON			
RIO_HEALTH[351]	NON			
RIO_HEALTH[352]	NON			
RIO_HEALTH[353]	NON			
RIO_HEALTH[354]	NON			
RIO_HEALTH[355]	NON			
RIO_HEALTH[356]	NON			
RIO_HEALTH[357]	NON			
RIO_HEALTH[358]	NON			
RIO_HEALTH[359]	NON			
RIO HEALTH[360] RIO HEALTH[361]	NON			
RIO_HEALTH[361]	NON			
RIO_HEALTH[362]	NON NON			
	_			
RIO HEALTH[364] RIO HEALTH[365]	NON NON			
RIO_HEALTH[366]	NON			
RIO HEALTH[367]	NON			
RIO HEALTH[368]	NON			
RIO HEALTH[369]	NON			
RIO HEALTH[370]	NON			
RIO HEALTH[371]	NON			
RIO HEALTH[371]	NON			
RIO HEALTH[373]	NON			
RIO HEALTH[374]	NON			
RIO HEALTH[375]	NON			
RIO HEALTH[376]	NON			
RIO HEALTH[377]	NON			
RIO HEALTH[378]	NON			
RIO HEALTH[379]	NON			
RIO HEALTH[380]	NON			
RIO HEALTH[381]	NON			
RIO_HEALTH[382]	NON			
RIO_HEALTH[383]	NON			
RIO_HEALTH[384]	NON			
LS_HEALTH	NON		Local Slave health bits (Local Slave 1 to 3)	

Auteur :		Imprimé le 15/05/2025
Service:	6 Variables et instances FB	
Projet :		Page : 27/42

Nom	Const	Adresse	Commentaire	Utilisé
LS HEALTH[1]	NON	Adiesse	Connichance	Othise
LS HEALTH[1]	NON			
	NON			
LS_HEALTH[3] DIO_HEALTH	NON		DIO health bits (1 bit per DIO up to 128 DIOs)	
DIO HEALTH[513]	NON		DIO health bits (1 bit per DIO up to 128 DIOs)	
	NON			
DIO HEALTH[514] DIO HEALTH[515]	NON			
	NON			
DIO HEALTH[516]	NON			
DIO_HEALTH[517]				
DIO HEALTH[518]	NON			
DIO_HEALTH[519]	NON			
DIO_HEALTH[520]	NON NON			
DIO_HEALTH[521]				
DIO HEALTH[522]	NON			
DIO_HEALTH[523]	NON			
DIO_HEALTH[524]	NON			
DIO_HEALTH[525]	NON			
DIO_HEALTH[526]	NON			
DIO_HEALTH[527]	NON			
DIO_HEALTH[528]	NON			
DIO HEALTH[529]	NON			
DIO_HEALTH[530]	NON			
DIO HEALTH[531]	NON			
DIO_HEALTH[532]	NON			
DIO HEALTH[533]	NON			
DIO_HEALTH[534]	NON			
DIO HEALTH[535]	NON			
DIO_HEALTH[536]	NON			
DIO_HEALTH[537]	NON			
DIO_HEALTH[538]	NON			
DIO_HEALTH[539]	NON			
DIO HEALTH[540]	NON			
DIO_HEALTH[541]	NON			
DIO_HEALTH[542]	NON			
DIO_HEALTH[543]	NON			
DIO_HEALTH[544]	NON			
DIO_HEALTH[545]	NON			
DIO_HEALTH[546]	NON			
DIO_HEALTH[547]	NON			
DIO_HEALTH[548]	NON			
DIO_HEALTH[549]	NON			
DIO HEALTH[550]	NON			
DIO_HEALTH[551]	NON			
DIO_HEALTH[552]	NON			
DIO_HEALTH[553]	NON			
DIO_HEALTH[554]	NON			
DIO_HEALTH[555]	NON			
DIO_HEALTH[556]	NON			
DIO_HEALTH[557]	NON			
DIO_HEALTH[558]	NON			
DIO_HEALTH[559]	NON			
DIO_HEALTH[560]	NON			
DIO_HEALTH[561]	NON			
DIO_HEALTH[562]	NON			
DIO_HEALTH[563]	NON			
DIO_HEALTH[564]	NON			
DIO_HEALTH[565]	NON			
DIO_HEALTH[566]	NON			
DIO_HEALTH[567]	NON			

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page: 28/42

Nom	Const	Adresse	Commentaire	Utilisé
DIO HEALTH[568]	NON	TRATOSSO	Commence	O that/C
DIO HEALTH[569]	NON			
DIO HEALTH[570]	NON			
DIO HEALTH[571]	NON			
DIO HEALTH[572]	NON			
DIO HEALTH[573]	NON			
DIO_HEALTH[574]	NON			
DIO HEALTH[575]	NON			
DIO HEALTH[576]	NON			
DIO HEALTH[577]	NON			
DIO HEALTH[578]	NON			
DIO HEALTH[579]	NON			
DIO HEALTH[580]	NON			
DIO HEALTH[581]	NON			
DIO HEALTH[581]	NON			
DIO HEALTH[582]	NON			
DIO_HEALTH[584]	NON			
DIO HEALTH[584]	NON			
DIO_HEALTH[585]	NON			
DIO HEALTH[587]	NON			
DIO HEALTH[587]	NON			
DIO HEALTH[589]	NON			
DIO_HEALTH[589]	NON			
DIO HEALTH[591]	NON			
DIO HEALTH[592]	NON			
DIO HEALTH[593]	NON			
DIO HEALTH[594]	NON			
DIO HEALTH[595]	NON			
DIO HEALTH[596]	NON			
DIO HEALTH[597]	NON			
DIO HEALTH[598]	NON			
DIO HEALTH[599]	NON			
DIO_HEALTH[600]	NON			
DIO HEALTH[601]	NON			
DIO HEALTH[602]	NON			
DIO HEALTH[603]	NON			
DIO HEALTH[604]	NON			
DIO HEALTH[605]	NON			
DIO HEALTH[606]	NON			
DIO HEALTH[607]	NON			
DIO HEALTH[608]	NON			
DIO HEALTH[609]	NON			
DIO HEALTH[610]	NON			
DIO HEALTH[611]	NON			
DIO_HEALTH[612]	NON			
DIO HEALTH[613]	NON			
DIO_HEALTH[614]	NON			
DIO HEALTH[615]	NON			
DIO_HEALTH[616]	NON			
DIO HEALTH[617]	NON			
DIO_HEALTH[617]	NON			
DIO HEALTH[619]	NON			
DIO HEALTH[620]	NON			
DIO HEALTH[621]	NON			
DIO_HEALTH[621]	NON			
DIO_HEALTH[623]	NON			
DIO HEALTH[623]	NON			
DIO_HEALTH[624] DIO_HEALTH[625]	NON			
DIO HEALTH[625]	NON			
DIO_REALTR[020]	INON	1		

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page : 29/42

Nom	Const	Adresse	Commentaire	Utilisé
DIO HEALTH[627]	NON			
DIO HEALTH[628]	NON			
DIO HEALTH[629]	NON			
DIO HEALTH[630]	NON			
DIO HEALTH[631]	NON			
DIO HEALTH[632]	NON			
DIO HEALTH[633]	NON			
DIO HEALTH[634]	NON			
DIO_HEALTH[635]	NON			
DIO_HEALTH[636]	NON			
DIO_HEALTH[637]	NON			
DIO_HEALTH[638]	NON			
DIO_HEALTH[639]	NON			
DIO_HEALTH[640]	NON			
DROP_CTRL	NON		DROP control bits (Drop 1 to 31)	
DROP_CTRL[1]	NON			
DROP_CTRL[2] DROP_CTRL[3]	NON NON			
DROP_CTRL[3] DROP_CTRL[4]	NON			
DROP CTRL[4]  DROP CTRL[5]	NON			
DROP CTRL[6]	NON			
DROP CTRL[7]	NON			+
DROP CTRL[8]	NON			
DROP CTRL[9]	NON			
DROP CTRL[10]	NON			
DROP CTRL[11]	NON			
DROP CTRL[12]	NON			
DROP CTRL[13]	NON			
DROP CTRL[14]	NON			
DROP_CTRL[15]	NON			
DROP_CTRL[16]	NON			
DROP_CTRL[17]	NON			
DROP_CTRL[18]	NON			
DROP_CTRL[19]	NON			
DROP_CTRL[20]	NON			
DROP_CTRL[21]	NON			
DROP_CTRL[22]	NON			
DROP CTRL[23]	NON			
DROP_CTRL[24]	NON			
DROP_CTRL[25]	NON			
DROP_CTRL[26]	NON			
DROP CTRL[27] DROP CTRL[28]	NON NON			
DROP CTRL[28]	NON			
DROP_CTRL[30]	NON			
DROP CTRL[31]	NON		+	
RIO CTRL	NON		RIO control bits (1 bit per RIO up to 128)	
RIO CTRL[257]	NON		(1 on politico up to 120)	
RIO CTRL[258]	NON			
RIO CTRL[259]	NON			
RIO_CTRL[260]	NON			
RIO_CTRL[261]	NON			
RIO_CTRL[262]	NON			
RIO_CTRL[263]	NON			
RIO_CTRL[264]	NON			
RIO_CTRL[265]	NON			
RIO_CTRL[266]	NON			
RIO_CTRL[267]	NON			
RIO_CTRL[268]	NON			

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page: 30/42

Nom	Const	Adresse	Commentaire	Utilisé
RIO CTRL[269]	NON	- 101 0000		
RIO CTRL[270]	NON	1		
RIO CTRL[271]	NON			
RIO CTRL[272]	NON	1		
RIO CTRL[273]	NON			
RIO CTRL[274]	NON			
RIO_CTRL[275]	NON			
RIO_CTRL[276]	NON			
RIO CTRL[277]	NON			
RIO CTRL[278]	NON			
RIO CTRL[279]	NON			
RIO CTRL[280]	NON			
RIO CTRL[281]	NON			
RIO CTRL[282]	NON			
RIO CTRL[283]	NON			
RIO CTRL[284]	NON			
RIO CTRL[285]	NON			
RIO CTRL[286]	NON			
RIO CTRL[287]	NON			
RIO CTRL[288]	NON			
RIO CTRL[289]	NON			
RIO_CTRL[290]	NON			
RIO_CTRL[291]	NON			
RIO_CTRL[292]	NON			
RIO_CTRL[293]	NON			
RIO_CTRL[294]	NON			
RIO_CTRL[295]	NON			
RIO_CTRL[296]	NON			
RIO_CTRL[297]	NON			
RIO_CTRL[298]	NON			
RIO_CTRL[299]	NON			
RIO_CTRL[300]	NON			
RIO_CTRL[301]	NON			
RIO_CTRL[302]	NON			
RIO_CTRL[303]	NON			
RIO_CTRL[304]	NON			
RIO_CTRL[305]	NON			
RIO_CTRL[306]	NON			
RIO_CTRL[307]	NON	+		
RIO CTRL[308]	NON	+		
RIO_CTRL[309]	NON	1		
RIO_CTRL[310]	NON	_		
RIO_CTRL[311]	NON	1		
RIO_CTRL[312]	NON	1		
RIO_CTRL[313]	NON NON	1		
RIO_CTRL[314]		+		
RIO_CTRL[315] RIO_CTRL[316]	NON NON	+		
RIO_CTRL[316]	NON	+		
RIO CTRL[317]	NON	+		
RIO CTRL[318]	NON	+		
RIO CTRL[319]	NON	+		
RIO CTRL[320]	NON	+		
RIO CTRL[321]	NON	+		
RIO CTRL[322]	NON			
RIO CTRL[324]	NON	+		
RIO_CTRL[324]	NON	1		
RIO_CTRL[325]	NON	+		
RIO CTRL[327]	NON			
100_C110L[321]	11011			

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page : 31/42

Nom	Const	Adresse	Commentaire	Utilisé
RIO CTRL[328]	NON	raresse	Сопильный	C that's
RIO CTRL[329]	NON			
RIO CTRL[330]	NON			
RIO CTRL[331]	NON			
RIO CTRL[332]	NON			
RIO CTRL[333]	NON			
RIO CTRL[334]	NON			
RIO CTRL[335]	NON			
RIO CTRL[336]	NON			
RIO CTRL[337]	NON			
RIO_CTRL[338]	NON			
RIO_CTRL[339]	NON			
RIO_CTRL[340]	NON			
RIO_CTRL[341]	NON			
RIO_CTRL[342]	NON			
RIO_CTRL[343]	NON			
RIO_CTRL[344]	NON			
RIO_CTRL[345]	NON			
RIO_CTRL[346]	NON			
RIO_CTRL[347]	NON			
RIO_CTRL[348]	NON			
RIO_CTRL[349]	NON			
RIO_CTRL[350]	NON			
RIO_CTRL[351]	NON			
RIO_CTRL[352]	NON			
RIO_CTRL[353]	NON			
RIO_CTRL[354] RIO_CTRL[355]	NON			
RIO CTRL[355]	NON NON			
RIO CTRL[357]	NON			
RIO CTRL[358]	NON			
RIO CTRL[359]	NON			
RIO CTRL[360]	NON			
RIO CTRL[361]	NON			
RIO CTRL[362]	NON			
RIO CTRL[363]	NON			
RIO_CTRL[364]	NON			
RIO_CTRL[365]	NON			
RIO_CTRL[366]	NON			
RIO_CTRL[367]	NON			
RIO_CTRL[368]	NON			
RIO_CTRL[369]	NON			
RIO_CTRL[370]	NON			
RIO_CTRL[371]	NON			
RIO_CTRL[372]	NON			
RIO_CTRL[373]	NON			
RIO_CTRL[374]	NON			
RIO_CTRL[375]	NON			
RIO_CTRL[376]	NON			
RIO_CTRL[377]	NON			
RIO_CTRL[378]	NON			
RIO_CTRL[379] RIO_CTRL[380]	NON NON			<del>                                     </del>
RIO CTRL[380]	NON			
RIO CTRL[381]	NON			
RIO CTRL[383]	NON			
RIO CTRL[384]	NON			
DIO CTRL	NON		DIO control bits (1 bit per DIO up to 128 DIOs)	
DIO CTRL[513]	NON			
		•		

Auteur :		Imprimé le 15/05/2025
Service:	6 Variables et instances FB	
Projet :		Page : 32/42

Nom	Const	Adresse	Commentaire	Utilisé
DIO CTRL[514]	NON			
DIO CTRL[515]	NON			
DIO CTRL[516]	NON			
DIO CTRL[517]	NON			
DIO CTRL[518]	NON			
DIO_CTRL[519]	NON			
DIO_CTRL[520]	NON			
DIO_CTRL[521]	NON			
DIO_CTRL[522]	NON			
DIO_CTRL[523]	NON			
DIO_CTRL[524]	NON			
DIO_CTRL[525]	NON			
DIO_CTRL[526]	NON			
DIO_CTRL[527]	NON			
DIO_CTRL[528]	NON			
DIO_CTRL[529]	NON			
DIO CTRL[530] DIO CTRL[531]	NON NON			
DIO_CTRL[531] DIO_CTRL[532]	NON			
DIO CTRL[532]	NON			+
DIO CTRL[533]	NON			
DIO CTRL[534]	NON			+
DIO CTRL[536]	NON			
DIO CTRL[537]	NON			
DIO CTRL[538]	NON			
DIO CTRL[539]	NON			
DIO CTRL[540]	NON			
DIO CTRL[541]	NON			
DIO CTRL[542]	NON			
DIO_CTRL[543]	NON			
DIO_CTRL[544]	NON			
DIO_CTRL[545]	NON			
DIO_CTRL[546]	NON			
DIO_CTRL[547]	NON			
DIO_CTRL[548]	NON			
DIO_CTRL[549]	NON			
DIO_CTRL[550]	NON			
DIO_CTRL[551]	NON			
DIO_CTRL[552]	NON			
DIO CTRL[553]	NON			
DIO CTRL[554]	NON			
DIO_CTRL[555]	NON			
DIO_CTRL[556] DIO_CTRL[557]	NON NON			+
DIO_CTRL[557] DIO_CTRL[558]	NON			+
DIO CTRL[558]	NON			
DIO_CTRL[559] DIO CTRL[560]	NON			
DIO CTRL[561]	NON			+
DIO_CTRL[561] DIO CTRL[562]	NON			
DIO CTRL[563]	NON			
DIO CTRL[564]	NON			
DIO CTRL[565]	NON			
DIO CTRL[566]	NON			
DIO CTRL[567]	NON			
DIO CTRL[568]	NON			
DIO CTRL[569]	NON			
DIO_CTRL[570]	NON			
DIO_CTRL[571]	NON			
DIO_CTRL[572]	NON			

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page : 33/42

Nom	Const	Adresse	Commentaire	Utilisé
DIO CTRL[573]	NON	11010550	COMMISSIONAL	
DIO CTRL[574]	NON			
DIO CTRL[575]	NON			
DIO CTRL[576]	NON			
DIO CTRL[577]	NON			
DIO CTRL[578]	NON			
DIO CTRL[579]	NON			
DIO_CTRL[580]	NON			
DIO_CTRL[581]	NON			
DIO_CTRL[582]	NON			
DIO_CTRL[583]	NON			
DIO_CTRL[584]	NON			
DIO_CTRL[585]	NON			
DIO_CTRL[586]	NON			
DIO_CTRL[587]	NON			
DIO_CTRL[588]	NON			
DIO_CTRL[589]	NON			
DIO_CTRL[590]	NON			
DIO_CTRL[591]	NON			
DIO CTRL[592]	NON			
DIO CTRL[593] DIO CTRL[594]	NON NON			
DIO_CTRL[594] DIO_CTRL[595]	NON			
DIO CTRL[595]	NON			
DIO_CTRL[590]	NON			
DIO CTRL[598]	NON			
DIO CTRL[599]	NON			
DIO CTRL[600]	NON			
DIO CTRL[601]	NON			
DIO CTRL[602]	NON			
DIO CTRL[603]	NON			
DIO CTRL[604]	NON			
DIO CTRL[605]	NON			
DIO CTRL[606]	NON			
DIO_CTRL[607]	NON			
DIO_CTRL[608]	NON			
DIO_CTRL[609]	NON			
DIO_CTRL[610]	NON			
DIO_CTRL[611]	NON			
DIO CTRL[612]	NON			
DIO_CTRL[613]	NON			
DIO_CTRL[614]	NON			
DIO_CTRL[615]	NON			
DIO_CTRL[616]	NON			
DIO_CTRL[617]	NON			
DIO_CTRL[618]	NON			
DIO_CTRL[619]	NON			
DIO_CTRL[620]	NON			
DIO CTRL[621]	NON			
DIO_CTRL[622]	NON			
DIO_CTRL[623]	NON		-	
DIO_CTRL[624]	NON		-	
DIO_CTRL[625]	NON			
DIO_CTRL[626]	NON			
DIO_CTRL[627]	NON			
DIO_CTRL[628]	NON			
DIO_CTRL[629]	NON			
DIO CTRL[630] DIO CTRL[631]	NON NON			
DIO_CINL[031]	INON			

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page : 34/42

Nom	Const	Adresse	Commentaire	Utilisé
DIO_CTRL[632]	NON			
DIO_CTRL[633]	NON			
DIO_CTRL[634]	NON			
DIO_CTRL[635]	NON			
DIO_CTRL[636]	NON			
DIO_CTRL[637]	NON			
DIO_CTRL[638]	NON			
DIO CTRL[639]	NON			
DIO CTRL[640]	NON			

Auteur :		Imprimé le 15/05/2025
Service :	6 Variables et instances FB	
Projet :		Page : 35/42

# Structure du projet

#### VUE STRUCTURELLE

SEC&TION	CONDITION DE VALIDATION	COMMENTAIRE DE SECTION	MODULE	LANGAGE
Instanciation KM				LD
Instanciation_YV				LD
Instanciation TRS				LD
Instanciation MTBF MTTR				LD

# CALL TREE Programmes Tâches MAST Logique Instanciation\_KM Instanciation\_YV Instanciation\_TRS Instanciation\_MTBF\_MTTR

Auteur :		Imprimé le 15/05/2025
Service :	7 Structure du projet	-
Projet :		Page : 36/42

## Réseau Ethernet

Nom	Туре	Sous-type		Adresse topologique
BMEP58_ECPU_EXT	Scrutateur	Scrutateur DIO	Distribué Distant	0.0/0.0

Nom	Activation DHCP		1	Adresse de passerelle
BMEP58_ECPU_EXT	Oui	A:192.168.11.1	255.255.0.0	192.168.10.1
		Principale :192.168.10.1	255.255.0.0	

Nom	Identification par	Identificateur	SNMP	Etat NTP
BMEP58_ECPU_EXT			IP1:0.0.0.0	Désactivé
			IP2:0.0.0.0	

Nom	Configuration NTP
BMEP58_ECPU_EXT	

Auteur :		Imprimé le 15/05/2025
Service :	8 Réseau Ethernet	
Projet :		Page : 37/42

# **MAST**

#### Propriétés spécifiques

Configuration	Cyclique
Période de la tâche	0
Chien de garde	250

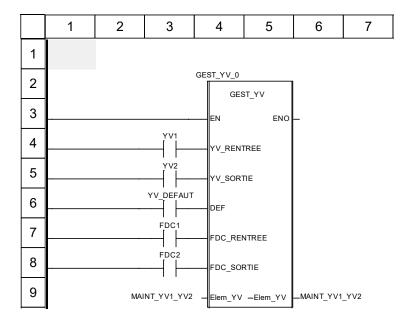
Auteur :	9.1 Tâches	Imprimé le 15/05/2025
Service :	9.1.1 MAST	
Projet :		Page : 38/42

# Instanciation\_KM : [MAST]

	1	2	3	4	5	6
1						
2						
3			GEST_KM_0	ST_KM		
4			EN	- ENO	_	
5	MAIN	IT_KM1_KM2	- Elem_KM	- Elem_KM	MAINT_KM1	_KM2
6	KM1	<del>.</del>	KM_AV			
7	KM2		KM_AR			
8	KM_DEFAUT	·	DEF			

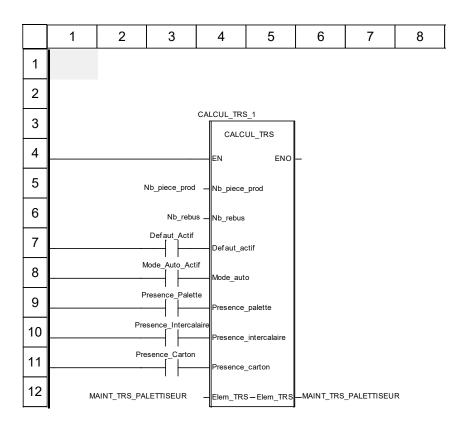
Auteur :	9.1.1.1 Logique	Imprimé le 15/05/2025
Service :	9.1.1.1.1 Instanciation_KM	
Projet :		Page : 39/42

# Instanciation\_YV : [MAST]



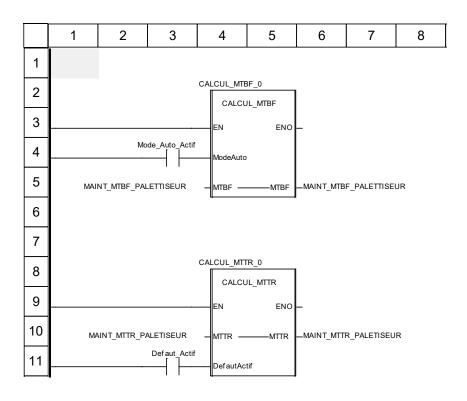
Auteur :	9.1.1.1 Logique	Imprimé le 15/05/2025
Service :	9.1.1.1.2 Instanciation_YV	
Projet :		Page : 40/42

# Instanciation\_TRS : [MAST]



Auteur :	9.1.1.1 Logique	Imprimé le 15/05/2025
Service :	9.1.1.1.3 Instanciation_TRS	
Projet :		Page : 41/42

# Instanciation\_MTBF\_MTTR : [MAST]



Auteur :	9.1.1.1 Logique	Imprimé le 15/05/2025
Service :	9.1.1.1.4 Instanciation_MTBF_MTTR	
Projet :		Page : 42/42