OPEN PROTOCOL FOR ELECTRIC NETWORKS

Document name	OpenWebNet_Community_6_powermanagement_v1_0_0_EN.doc
Last date modify	8/30/2006
Last version	1.0.0

Updating history

Version	Date	Author
1.0.0	08/29/2006	Bticino S.p.A. Direzione Marketing e Sviluppo Prodotti (Sviluppo Software Embedded) Via L. Manara, 4 Erba (CO) Italy www.myopen-bticino.it
Updating description: FIRST VERSION.		

INDEX

1. Power Management (WHO = 3)

1.1. WHAT table:

0	DISABLED
1	ENABLED
2	FORCED
3	REMOVE FORCED

1.2. WHERE table:

0	General
10	Control Unit
#1	Priority 1
#2	Priority 2
#3	Priority 3
#4	Priority 4
#5	Priority 5
#6	Priority 6
#7	Priority 7
#8	Priority 8

1.3. DIMENSION table:

0	All dimensions	R
1	Voltage	R
2	Current	R
3	Power	R
4	Energy	R

1.4. Allowed OPEN messages: Command session

1.4.1. Load forced command

Command session	Open frame	Note
Tcp/Ip: Client → Server	*3*2*where##	where = [#1 #8] that indicates the priority.
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor session	Open frame	Note
Tcp/Ip Client monitor ← Server	*3*2*where##	

1.4.2. General status request

Command session	Open frame	Note
Tcp/Ip: Client → Server	*#3##	
Tcp/Ip Client ← Server	*3*[0-1]*where##	where = [#1 #8] that indicates the priorità. For each priorities is send the own specific status.
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor session	Open frame	Note
Tcp/Ip Client monitor ← Server	*3*[0-1]*where##	

1.4.3. Priority status request

Command session	Open frame	Note
Tcp/Ip: Client → Server	*#3*where##	where = [#1 #8] that indicates the priority.
Tcp/Ip Client ← Server	*3*[0-1]*where##	where = [#1 #8] that indicates the priority. Only a status priority request is sent.
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor session	Open frame	Note
Tcp/Ip Client monitor ←	*3*[0-1]*where##	where = [#1 #8] that indicates the priority For each priorities is sent the own specific status.

Server		

1.4.4. All dimensions request

Command session	Open frame	Note
Tcp/Ip: Client → Server	*#3*10*0##	
Tcp/Ip Client ← Server	*#3*10*0*T*C*P*E##	T = Measured Voltage (measure unit: Volt) C = Measured Current (measure unit: Ampere) P = Measured Power (measure unit: Watt) E = Measured Energy
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor session	**Open frame**	**Note**
Tcp/Ip Client monitor ← Server	*#3*10*0*T*C*P*E##	T = Measured Voltage (measure unit: Volt) C = Measured Current (measure unit: Ampere) P = Measured Power (measure unit: Watt) E = Measured Energy

1.4.5. Voltage request

Command session	Open frame	Note
Tcp/Ip: Client → Server	*#3*10*1##	
Tcp/Ip Client ← Server	*#3*10*1*T##	T = Measured Voltage (measure unit: Volt)
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor session	**Open frame**	**Note**
Tcp/Ip Client monitor ← Server	*#3*10*1*T##	T = Measured Voltage (measure unit: volt)

1.4.6. Current request

Command session	Open frame	Note

Tcp/Ip: Client → Server	*#3*10*2##	
Tcp/Ip Client ← Server	*#3*10*2*C##	C = Measured Current (measure unit: Ampere)
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor session	**Open frame**	**Note**
Tcp/Ip Client monitor ← Server	*#3*10*2*C##	C = Measured Current (measure unit: Ampere)

1.4.7. Power request

Command session	Open frame	Note
Tcp/Ip: Client → Server	*#3*10*3##	
Tcp/Ip Client ← Server	*#3*10*3*P##	P = Measured Power (measure unit: Watt)
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor session	**Open frame**	**Note**
Tcp/Ip Client monitor ← Server	*#3*10*3*P##	P = Measured Power (measure unit: Watt)

1.4.8. Energy request

Command session	Open frame	Note
Tcp/Ip: Client → Server	*#3*10*4##	
Tcp/Ip Client ← Server	*#3*10*4*E##	E = Measured Energy
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor session	**Open frame**	**Note**
Tcp/Ip Client monitor ← Server	*#3*10*4*E##	E = Measured Energy

1.5. Allowed OPEN messages: Monitor session

1.5.1. Load disable

Monitor session	Open frame	Note
Tcp/Ip Client monitor ← Server	*3*0*where##	where = [#1 #8] that indicates the priority.

1.5.2. Load enable

Monitor session	Open frame	Note
Tcp/Ip Client monitor ← Server	*3*1*where##	where = [#1 #8] that indicates the priority.

1.5.3. Load forced

Monitor session	Open frame	Note
Tcp/Ip Client monitor ← Server	*3*2*where##	where = [#1 #8] that indicates the priority.

1.5.4. Stop load forced

Monitor session	Open frame	Note
Tcp/Ip Client monitor ← Server	*3*3*where##	where = [#1 #8] that indicates the priority.

1.5.5. General Updating

Monitor session	Open frame	Note

Tcp/Ip Client monitor ← Server	*3*[0-1]*where##	where = [#1 #8] that indicates the priority. For each priorities is sent the own specific status.