Error Snapshot

As Rational Service,
In order to diagnose and sort out a problem that's occured on an iVario,
I want to see a Snapshot of all the sensors at the time of the error listed in the service menu

Note : a snapshot will be available for the last 15 errors in the service menu. Currently, the last 100 snapshot are kept in data (200 files .xml and .csv).

Description of values shown in the Error Snapshot

Variables	Description	Type	Comments (Service)
Service code	The service error identifier, please look at the following documentations	-	
pt1	Raw I/O value from the potentiometer 1 : pan for **one pan devices**, left pan and/or lid for **two pans devices**	unsigned int	Range 0 / 5000 Overflow 65535
pt2	Raw I/O value from the potentiometer 2 : lid for **one pan devices**, right pan and/or lid for **two pans devices**	unsigned int	Range 0 / 5000 Overflow 65535
pt1[ang]	Angle value (in degree) : lid for **one pan devices**	float	
pt2[ang]	Angle value (in degree) : pan for **one pan devices**	float	
pt1[ang]_lid	Angle value (in degree) : left lid for **two pans devices**	float	
pt1[ang]_pan	Angle value (in degree) : left pan for **two pans devices**	float	

pt2[ang]_lid	Angle value (in degree) : right lid for **two pans devices**	float	
pt2[ang]_pan	Angle value (in degree) : right pan for **two pans devices**	float	
Charge Left		unsigned int	Running number
Charge Right		unsigned int	Running number
B201	The temperature of the left cabinet	int	Range -40 / 615 Overflow 615.35
B211	The temperature of the right cabinet	int	Range -40 / 615 Overflow 615.35
B101	B1 [1-18] are the temperature of each heating element	int	Range -40 / 615 Overflow 615.35
B102			Range -40 / 615 Overflow 615.35
B103			Range -40 / 615 Overflow 615.35
B104			
B105			
B106			
B107			
B108			

B109			
B110			
B111			
B112			
B113			
B114			
B115			
B116			
B117			
B118			
B301	The temperature of the left pan. It is composed of 6 cores	int	Range - 40 / 615 Overflow 615.35
B302			Range - 40 / 615 Overflow 615.35
B303			
B304			
B305			
B306			
B311	The temperature of the right pan. It is composed of 6 cores	int	Range - 40 / 615 Overflow 615.35
B312			
B313			
B314			
B315			

B316			
R101	These are the heating commands. 1 means a heating command is being issued else 0 **Warning ! Special Layout for 311:** **There is a special mapping that is configured in the database → Table "IB_Vcc_HE_IOBoard_Connector"** **This mapping is telling that when you want to heat HE5 (the fifth area), it will drive the SSR13....etc...** 	boolean	0/1
R102			0/1
R103			0/1
R104			0/1
R105			
R106			
R107			
R108			
R109			
R110			
R111			
R112			
R113			
R114			
R115			
R116			
R117			
R118			
P3_I/O_pressure (for all devices)	The I/O board pressure sensor, it measures the atmospheric pressure	float	Range 0 / 1800 Overflow 65535
P1_absolute	The pressure measured by the sensor of the (left) pan	float	Range 0 / 1800 Overflow 65535

P1_relative	Internally, it's given by: `P1_absolute - P3_I/O_pressure` **The value is directly retrieved from the Basis. It has not been calculated by the error snapshot controller.**	float	-1000 / 800
Pressure_offset (one pan device) / Left_pressure_offset (two pans device)		int	-1000 / 800
Pressure_offset_time (one pan device) / Left_pressure_offset_time (two pans device)	The time when the offset of the (left) pan was set the most lately. Format *HH:MM:SS*	string	
Pressure_offset_date (one pan device) / Left_pressure_offset_date (two pans device)	The date when the offset of the (left) pan was set the most lately. Format *MM/DD/YYYY*	string	
Pressure_phase (one pan device) / Left_pressure_phase (two pans device)	The status of the pressure in the (left) pan. Described by the ComAPI enum *VccReglerTypes::ePressurePhase*	enum (transformed into string)	
Pressure_in_pan (one pan device) / Pressure_in_pan_left (two pans device)	Indicates whether there is siginificative pressure in the (left) pan	Boolean	0/1
P2_absolute	The pressure measured by the sensor of the right pan	float	Range 0 / 1800 Overflow 65535
P2_relative	It's internally given by: `P2_absolute - P3_I/O_pressure` **The value is directly retrieved from the Basis. It has not been calculated by the error snapshot controller.**	float	-1000 / 800
Right_pressure_offset		int	-1000 / 800

Right_pressure_offset_time	The time when the offset of the right pan was set the most lately. Format HH:MM:SS	string	
Right_pressure_offset_date	The date when the offset of the right pan was set the most lately. Format MM/DD/YYYY	string	
Right_pressure_phase	The status of the pressure in the right pan. Described by the ComAPI enum *VccReglerTypes::ePressurePhase*	enum (transformed into string)	
Pressure_in_pan_right	A boolean that indicates whether there is significative pressure in the right pan	Boolean	0/1
S8	Right microswitch emptying valve position ; true means closed	Boolean	0/1
S10	(Left) Lid open ;	Boolean	0/1
S11	(Left) lid close ;	Boolean	0/1
S111	CDS sensor tick	int ?	0 / xxxx
S12	Right lid open ;	Boolean	0/1
S13	Right lid close ;	Boolean	0/1
Safety Chain Voltage	Safety chain voltage measured by I/O board	Flot ?	0/400
S20	Left microswitch emptying valve position ; Boolean : true means closed	Boolean	0/1
Y1	(Left) Solenoid valve water filling ; Boolean : true means open	Boolean	0/1
Y2	Right solenoid valve water filling ; Boolean : true means open	Boolean	0/1
Y3	Valve Control Box ; Boolean : true means open	Boolean	0/1
AZ Valve request state	Pressure valve left command (open/stay/close ; -1/0/1)	signed int ?	-1 / 0/ 1
Y4	(Left) Pressure valve (two variables *open* and *closed*)	Boolean	0 / 1 not powered / powered
Y4 open	Boolean	Boolean	0/1
Y4 close	Boolean	Boolean	0/1

AZ Valve request state right ?	Pressure valve right command (open/stay/close ; -1/0/1)	signed int ?	-1 / 0/ 1
Y5	Right pressure valve (two variables *open* and *closed*)	Boolean	0 / 1 not powered / powered
Y5 open	Boolean	Boolean	0/1
Y5 close	Boolean	Boolean	0/1
Y7	Solenoid valve warm water filling ; Boolean : true means open	Boolean	0/1
M2	(Left) Pan or lid moving ; Boolean : true means "moving"	Boolean	0/1 Motor left is moving
M3	(Left) Lid moving ; Boolean : true means "moving"	Boolean	0 / 1 The left moving motor is the lid motor (precision of line M2)
Rahrbach locking	Locking system is locking	Boolean ?	0 / 1
Rahrbach unlocking	Locking system is unlocking	Boolean ?	0 / 1
M4	(Left) Lid locked ; Boolean : true means locked	Boolean	0 / 1
M4-S1	(Left) "Drain closed" / "lid unlocked" switch state ; Boolean	Boolean	0 / 1
M4-S3	(Left) Drain open switch state ; Boolean	Boolean	0 / 1
M4-S2 & S6	(Left) Lid locked switch state ; Boolean	Boolean	0 / 1
Rahrbach locking right ?	Locking system right is locking	Boolean ?	0 / 1
Rahrbach unlocking right?	Locking system right is unlocking	Boolean ?	0 / 1

M5	Drain valve status for non pressure device (211 & 311). Well, it is used on 072 and 112 too => non-sense Boolean : true means drain valve is open	Boolean	0 / 1
M5-S11	Position switch from pan valve motor for non pressure device (211 & 311). Although it has also been named S20 => non sense Boolean : true means drain valve is open	Boolean	0 / 1
M6	Right pan or lid moving ; Boolean : true means "moving"	Boolean	0 / 1 Right pan/lid motor is moving
M8	Right lid locked ; Boolean : true means locked	Boolean	0 / 1
M8-S1	Right "drain closed" / "lid unlocked" switch state ; Boolean	Boolean	0 / 1
M8-S3	Right drain open switch state ; Boolean	Boolean	0 / 1
M8-S2-S6	Right lid locked switch state ; Boolean	Boolean	0 / 1
M10	Cooling fan motor SSR	Boolean	0 / 1