



# SYMKLOUD-MS

## OneClick Bundle 3.09.01

### Release Notes

PCN no.: 1901

Revision	Brief Description of Changes	Date of Issue
1.0	Initial release <sup>1</sup>	15-Jan-2019

<sup>1</sup> Based on template rev.1.0 – 2018.03.28

## 1/ Description of the change(s)

The Hellish Elfin firmw are release (version 3.09.01) is now available for the SYMKLOUD-MS platform, w hich includes a new OneClick bundle.

### 1.1. OneClick bundle 3.09.01

The versions of each firmw are component included in the bundle are listed below , with those that have been updated (vs. the versions included in the previous bundle) highlighted in **bold**. The changes introduced in each individual firmw are component are listed in section “4/ Individual Changelog” of this document.

	Product	Component	Previous version	New version
	<b>OneClick Bundle MS29XX</b>		3.08.01 (Green Elfin)	<b>3.09.01 (Hellish Elfin)</b>
Hub Nodes	<b>MSH8900</b>	ShMC	3.15.09255C1B	<b>3.16.09289D46</b>
		FPGA	2.04	<b>2.06</b>
	<b>MSH8910</b>	ShMC	2.18.09255C1B	<b>2.19.09289D46</b>
		FPGA	1.10	<b>1.12</b>
	<b>MSH8920</b>	ShMC	1.09.0121ed17	<b>1.15.0128fdd1</b>
		FPGA	1.03.0800BDD5	<b>1.05.0800D656</b>
Compute Nodes	<b>MSP800x</b>	BIOS	1.00	1.00
		IPMC	3.33.0916B3EC	3.33.0916B3EC
		FPGA	1.10	1.10
	<b>MSP802x</b>	BIOS	2.20.0926E48B	2.20.0926E48B
		IPMC	2.20.0122BB90	2.20.0122BB90
		FPGA	2.14	2.14
	<b>MSP803x</b>	BIOS	2.16	2.16
		IPMC	1.01.090A145F	1.01.090A145F
		FPGA	1.00	1.00
	<b>MSP804x</b>	BIOS	1.14.09216DD2	<b>1.53.09289D8D</b>
		IPMC	1.14.0925245C	<b>1.15.09289DC1</b>
		FPGA	2.02	2.02
	<b>MSP805x</b>	BIOS	1.04.092093E8	<b>1.05.0926BD66</b>
		IPMC	1.05.0925245C	<b>1.06.09289DBB</b>
		FPGA	1.00	1.00
	<b>MSP806x</b>	BIOS	1.05.0921ED8B	1.05.0921ED8B
		IPMC	1.04.01225C16	1.04.01225C16
		FPGA	1.0.08003B50	1.0.08003B50

## 2/ Change Classification

<b>Classification</b>	<ul style="list-style-type: none"> <li>Maintenance release, Product improvement</li> </ul>
<b>Application</b>	<ul style="list-style-type: none"> <li>The Firmw are is field upgradeable</li> </ul>

## 3/ Impact on customer application and recommended actions

In order to benefit from the latest features, enhancements and fixes, Kontron recommends that customers upgrade all SYMKLOUD-MS systems and components to the latest firmw are versions as soon as is practical.

## 4/ Individual Changelogs

**NOTE:** This table only includes firmware components whose versions have changed since the previous bundle release.

Product	Component & Version	Changelog
MSH8900	ShMC 3.16.09289D46	<b>Changes since 3.15_09255C1B FW:</b> <ul style="list-style-type: none"> <li>• New Features: <ul style="list-style-type: none"> <li>○ Added SMCORE support for the MSP8045</li> <li>○ Thresholds for temperature sensors stored in non-volatile memory</li> </ul> </li> <li>• Bug Fixes: <ul style="list-style-type: none"> <li>○ Invalid "Platform Alert FPGA Heartbeat" events</li> <li>○ Payload power failure detection fix</li> <li>○ Removal of unnecessary SEL events from the IPMI info sensors</li> </ul> </li> <li>• Internal Improvements: <ul style="list-style-type: none"> <li>○ SMCORE with added support for new IPMI daemon</li> </ul> </li> </ul>
	FPGA 2.06	<b>Changes since FPGA 2.04:</b> <ul style="list-style-type: none"> <li>• Bug fix where fans would remain at high speed after a BMC timeout.</li> </ul>
MSH8910	ShMC 2.19.09289D46	<b>Changes since 2.18.09255C1B FW:</b> <ul style="list-style-type: none"> <li>• New Features: <ul style="list-style-type: none"> <li>○ Added System Monitor support for node MSP8045</li> <li>○ Thresholds for temperature sensors stored in non-volatile memory</li> </ul> </li> <li>• Bug Fixes: <ul style="list-style-type: none"> <li>○ Payload power failure detection fix</li> <li>○ Invalid "Platform Alert FPGA Heartbeat Alarms" events</li> <li>○ Removal of unnecessary SEL events from the IPMI info sensors</li> </ul> </li> <li>• Internal improvements: <ul style="list-style-type: none"> <li>○ SMCORE with added support for new IPMI daemon</li> <li>○ Threads/Timer priority settings adjustment</li> </ul> </li> </ul>
	FPGA 1.12	<b>Changes since FPGA 1.10:</b> <ul style="list-style-type: none"> <li>○ Bug fix where fans would remain at high speed after a BMC timeout</li> </ul>

Product	Component & Version	Changelog
MSH8920	ShMC 1.15.0128fdd1	<p><b>Changes since Shmc 1.09.0121ED17 FW:</b></p> <ul style="list-style-type: none"> <li>• New Features: <ul style="list-style-type: none"> <li>○ Add support for a future node in System Monitor</li> <li>○ More status registers read on the PMBus</li> <li>○ Single-ShMC mode in MS2900 w/control via API (SUS-139)</li> <li>○ New API command to reset System Manager</li> <li>○ Updated API doc in WebUI with new commands</li> </ul> </li> <li>• Bug Fixes: <ul style="list-style-type: none"> <li>○ Access to boot info from NVRAM on reboot</li> <li>○ Access to PDB FRU's using ipmitool</li> <li>○ Fix SNMP community strings</li> <li>○ Handling of the "Unsupported Interface" completion code for HPM.1 commands</li> <li>○ HPM upgrade reliability improved</li> <li>○ No default gateway with static IP source</li> <li>○ Timeout on IOL parameter change command ("ipmitool lan set ...")</li> <li>○ The default gateway is misconfigured when changing IP source (static or DHCP).</li> <li>○ Wait for rollback result on HPM upgrade</li> <li>○ (Removed) Minor Fault triggered by non-critical temperature threshold events (MSH8920-300)</li> <li>○ Chassis power button does not activate nodes (MSH8920-329)</li> <li>○ Only one switch is shutdown when pressing the chassis power button twice (MSH8920-353)</li> <li>○ SDR clear cache mechanism following a modification on the sensor population (SM-6)</li> <li>○ Adjust the payload info for MSP805x/MSP8060 (MS29-106)</li> <li>○ Fan numbering correction on MS1300 with Rev1 PCB (MS13-185)</li> <li>○ Loss of Shared IP config during interface reconfiguration (MSH8920-324)</li> </ul> </li> <li>• Internal Improvements: <ul style="list-style-type: none"> <li>○ Ipmitool upgraded to version 1.8.13-K12</li> <li>○ Remove concurrent HPM upgrade protection</li> <li>○ Routing rules</li> <li>○ SMCORE with added support for new IPMI daemon</li> <li>○ SIGTERM handling</li> <li>○ PSU detection and mis-match handling (MSH8920-338)</li> <li>○ Refuse HPM upgrade if upgrade already in progress</li> <li>○ Chassis EEPROM access (MSH8920-351)</li> <li>○ Only write changed values on 'lan set' operations (MSH8920-334)</li> <li>○ Token management and expiry</li> <li>○ Updated WebUI's 'Network Configuration' page to only reconfigure BMCs with changes when saving (SW-1225)</li> </ul> </li> </ul>
	FPGA 1.05.0800D656	<p><b>Changes since FPGA 1.03 0800BDD5:</b></p> <ul style="list-style-type: none"> <li>○ Increased the fan controller watchdog timeout from 4 to 10 seconds (MSH8920-356)</li> <li>○ Internal signalling improvements</li> </ul>

Product	Component & Version	Changelog
MSP8040	BMC 1.15.09289DC1	<p><b>Changes since BMC 1.14 09223DD2:</b></p> <ul style="list-style-type: none"> <li>• New Features: <ul style="list-style-type: none"> <li>○ Determine node status using new ipmitool command ("chassis_reset_cause")</li> <li>○ Thresholds for temperature sensors stored in non-volatile memory</li> </ul> </li> <li>• Bug Fixes: <ul style="list-style-type: none"> <li>○ Access to boot info from NVRAM on reboot</li> <li>○ Removal of unnecessary SEL events from the ipmi info sensors</li> <li>○ Payload power failure detection fix</li> </ul> </li> <li>• Internal Improvements: <ul style="list-style-type: none"> <li>○ Adjustment in the threads/timer priority settings</li> </ul> </li> </ul>
	BIOS 1.53.09289D8D	<p><b>Changes since BIOS 1.14.09216DD2:</b></p> <ul style="list-style-type: none"> <li>○ Bios version upgraded to 1.53 to include the MSP8045</li> </ul>
MSP8050	BMC 1.06.09289DBB	<p><b>Changes since BMC 1.05.0925245C:</b></p> <ul style="list-style-type: none"> <li>• Internal improvements: <ul style="list-style-type: none"> <li>○ New ipmi feature to return the System restart cause, added as: <i>chassis reset_cause</i></li> </ul> </li> <li>• Bug Fixes: <ul style="list-style-type: none"> <li>○ Fixed an issue where command chassis bootdev to PXE wouldn't function properly after an upgrade.</li> <li>○ Fixed a situation where the BMC won't detect the payload power failure.</li> <li>○ Added a filter for unnecessary SEL events</li> </ul> </li> </ul>
	BIOS 1.05.0926BD66	<p><b>Changes since BIOS 1.04.092093E8:</b></p> <ul style="list-style-type: none"> <li>• Internal improvements: <ul style="list-style-type: none"> <li>○ Updated microcode to include latest security updates: <ul style="list-style-type: none"> <li>▪ CPU ID: 406E3, Microcode Version: 0xC6</li> <li>▪ CPU ID: 506E3, Microcode Version: 0xC6</li> </ul> </li> </ul> </li> </ul>

## 5/ Firmware version history

### 5.1. Associated Network OS: Release History

<b>Firmware Package Version</b>	<b>Release Date</b>	<b>Chassis Support</b>	<b>MSH8900</b>	<b>MSH8910</b>	<b>MSH8920</b>
<b>3.09.01</b>	Jan-2019	MS29xx	1.14	GA4.50	1.6.4-24
<b>3.08.00</b>	Oct-2018	MS29xx	1.14	GA4.50	1.6.4-24
<b>3.07.00</b>	Apr-2018	MS29xx	1.14	GA4.50	1.6.4-24
<b>3.06.02</b>	Feb-2018	MS29xx	1.14	GA4.50	1.6.4-24
<b>3.05.01</b>	Dec-2017	MS29xx	1.12	HOTFIX4.00	1.5.4-32
<b>3.04.05</b>	Apr-2017	MS29xx	1.12	HOTFIX4.00	N/A
<b>3.00</b>	May-2016	MS29xx	1.12	HOTFIX3.02	N/A
<b>2.16</b>	Sept-2015	MS29xx	1.12	GA2.01	N/A

## 6/ How to identify your product

### MSH-Hub Nodes and MSP-Nodes

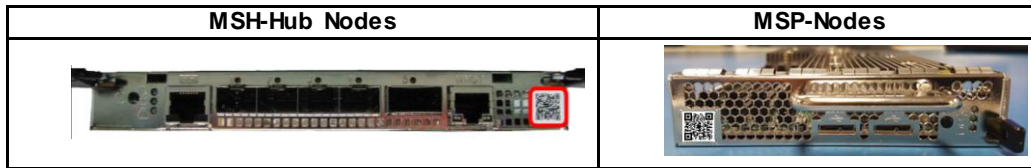
Electronically:

- From the System Monitor WebUI/API (including SystemInformation.txt)
- From any specific component's ipmitool interface (IoL, serial, etc.) with the command 'hpm check'

Physical labels:

- Each MSH-Hub Nodes and MSP-Nodes includes a 2D barcode on its faceplate, encoding the following details:

Board serial number      90xxxxxxxx  
 Board part number      xxxx-xxxx  
 Batch ID                    xxyyzzzzzz  
 Base MAC address        00:A0:A5:xx:xx:xx



### MS29xx Chassis

Electronically:

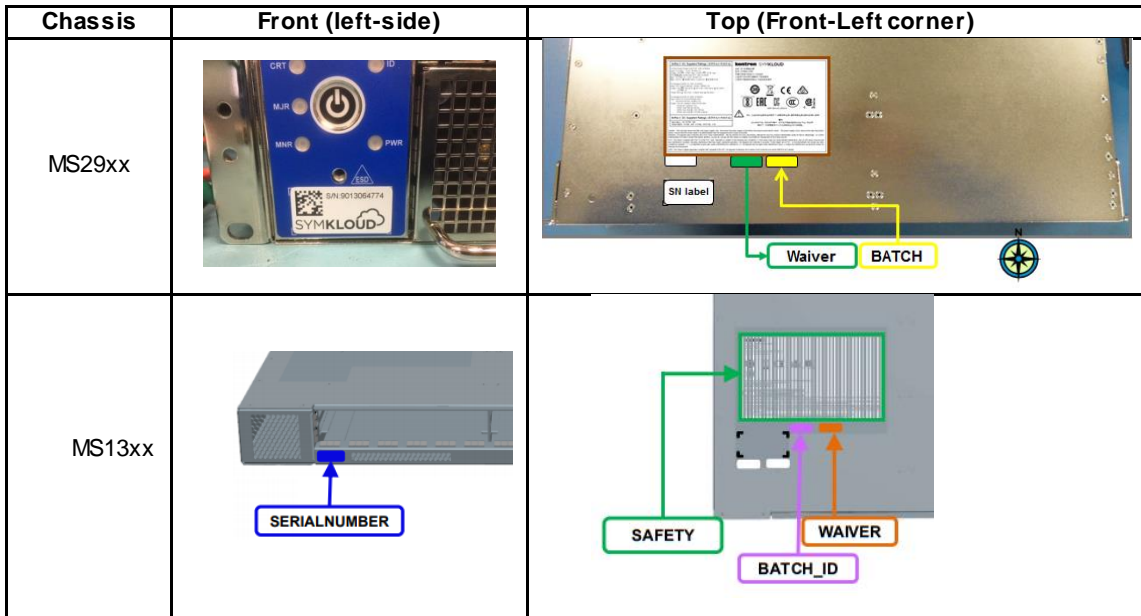
- From the Active ShMC's ipmitool interface (IoL, serial, etc.) with the command 'fru print'; the Chassis SN/PN is listed under FRU Device Description : "PDB 1 (ID 128)" and "PDB 2 (ID 130)"

Physical labels:

- Located on the top-cover of the system, the serial number and Batch ID labels encode:

Board serial number      90xxxxxxxx  
 Board part number      xxxx-xxxx  
 Batch ID                    xxyyzzzzzz

The System serial number is also encoded on the front-faceplate 'Symkloud' Label (shown below).



#### About Kontron in Communications

Kontron designs hardware for the software-defined world. Service providers and enterprise clients around the globe collaborate with Kontron and its ISV and channel partners to deploy new services with greater speed, confidence and operational efficiency. Our portfolio is a best-of-breed of OEM hardware and SYMKLOUD Open Infrastructure Platforms dedicated to the deployment of virtual services using software defined networks (SDN) and network functions virtualization (NFV). For more information, please visit [www.symkcloud.com](http://www.symkcloud.com) or [www.kontron.com/communications](http://www.kontron.com/communications).

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