

**VPC3+**  
**Software-History**

**Revision 06.01.15**

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### Liability Exclusion

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# 1 Software History

Table 1-1 Software History

Version	Date	Remarks
V05.00.00	08.09.2005	First release
V05.00.01	22.10.2005	<p><b>BugFix:</b> Dp_cfg.h: Missing bracket: #define ASIC_USER_RAM (ASIC_RAM_LENGTH - DP_ORG_LENGTH - SAP_LENGTH)</p> <p><b>DP_VERSION_BUGFIX changed to 0x01</b></p>
V05.00.02	09.01.2006	<p><b>BugFix:</b> Problem with SIEMENS PLC 318 and Diag.cfg_Fault The VPC3+/C does not set the default master addressback in the diagnostic telegram to 0xFF. Software solution in dp_user.c (named with BugFix 502).</p> <p><b>DP_VERSION_BUGFIX changed to 0x02</b></p>
V05.00.03	21.02.2006	<p><b>BugFix:</b> I&amp;M Functions: Return Codes of NRS-PDUs changed. profichip has now it's own MANUFACTURER_ID (0x01BC).</p> <p><b>BugFix:</b> The definition of LITTLE_ENDIAN and BIG_ENDIAN is now correct.</p> <p><b>BugFix:</b> MSAC_C2-connection: <b>Certification Error Ifak - ILL31</b> transistion implemented. After disconnecting profibus cable, an open MSAC-C2 connection will be closed after timeout (2*F-timer). Function acls in dp_msac_c1 optimized. (named with BugFix 503).</p> <p><b>DP_VERSION_BUGFIX changed to 0x03</b></p>
V05.00.04	13.11.2006	<p>Certification problem ( itm ): The DPV1-alarms will be checked now in the function UserChkNewPrmData().</p> <p><b>Certification problem ( procentec ):</b> The master class 2 sends an initiate.req with out data and the slave answers with next free SAP. After then the master class 2 send an initiate.req with data, the slave should now answer with the same SAP and not with new SAP. (named with BugFix 504).</p> <p><b>DP_VERSION_BUGFIX changed to 0x04</b></p>
V06.00.00	03.08.2009	<p>Supports now VPC3+S</p> <p><b>DP_VERSION_BUGFIX changed to 0x00</b></p>
V06.00.01	08.08.2009	<p><b>BugFix:</b></p> <p><b>DP_VERSION_BUGFIX changed to 0x01</b></p>
V06.00.02	17.09.2010	<p><b>BugFix:</b> Error in function: VPC3_GetMasterAddress</p> <p><b>DP_VERSION_BUGFIX changed to 0x02</b></p>
V06.00.03	13.12.2010	<p><b>BugFix:</b> dp_if.h: add the macro _PACKED_ to all structures Modification: Prm-, ChkCfg- and SSA-telegram via help buffer: abPrmCfgSsaHelpBuffer[ HELP_BUFSIZE ].</p>

		<b>DP_VERSION_BUGFIX changed to 0x03</b>
V06.00.04	15.02.2011	<p><b>BugFix:</b>  dp_if.h: DxB-macros are wrong  - macro VPC3_GET_NEXT_DXB_OUT_BUFFER_CMD() modified  - macro VPC3_GET_DXB_OUT_BUFFER_SM() modified  modification of VPC3_Initialization( uint8_t bSlaveAddress, uint16_t wIdentNumber, psCFG psCfgData );</p> <p><b>DP_VERSION_BUGFIX changed to 0x04</b></p>
V06.00.05	19.04.2011	<p><b>BugFix:</b>  dp_msac2.c: MSAC_C2_InitiateReqToRes( ... )  - psMsgHeader-&gt;bDataLength = C2_FEATURES_SUPPORTED_2;</p> <p>Modification dp_if.h:  - new macro: VPC3_SET_EMPTY_SAP_LIST()  - new macro: VPC3_SET_SAP_LIST_END(OFFSET)</p> <p>Modification of following functions:  - dp_if.c: VPC3_Initialization( ... )  - dp_if.c: VPC3_SetConstants( ... )  - dp_fdl.c: FDL_Init( ... )</p> <p><b>DP_VERSION_BUGFIX changed to 0x05</b></p>
V06.00.06	21.10.2011	<p><b>BugFix:</b>  dp_msac2.c: MSAC_C2_TransmitDelay( ... )  If the master sends an Abort message during MSAC_C2_TransmitDelay call, the Class2 statemachine breaks down with fatal error.</p> <p>Modification of following functions:  - dp_msac2.c: MSAC_C2_TransmitDelay( ... )  - dp_msac2.c: MSAC_C2_RealizeIndRecv( ... )</p> <p><b>DP_VERSION_BUGFIX changed to 0x06</b></p>
V06.00.07	12.12.2011	<p><b>BugFix:</b>  - macro VPC3Write() now with cast VPC3_ADR  - macro VPC3Read() now with cast VPC3_ADR  If MSAC_C2 connection run out in the function MSAC_C2_Process the User-Application was informed 3 times via function UserMsac2AbortInd.</p> <p>Modification of following functions:  - platform.h now without the define NOP_</p> <p><b>DP_VERSION_BUGFIX changed to 0x07</b></p>
V06.00.08	18.07.2012	<p>Modification of following functions:  - dp_if.c: VPC3_MemoryTest( ... )</p> <p><b>DP_VERSION_BUGFIX changed to 0x08</b></p>
V06.00.09	05.06.2013	<p><b>BugFix:</b>  VPC3+S in serial mode: when reading from the Control Parameter memory (address 0x000 to 0x015) only the READ_BYTE instruction may be used. Otherwise an unintended read operation to the subsequent memory location will occur leading to an unpredictable behavior of the VPC3+S.</p> <p>- dp_if.h:  - macro changed: VPC3_SetDpState( _eDpState )  - macro changed: VPC3_ClrDpState( _eDpState )  - macro changed: VPC3_GetDpState( _eDpState )</p> <p>- dp_msac1.c: alarm statemachine</p>

		<ul style="list-style-type: none"> <li>- AL_CheckTypeStatus() modified</li> <li>- AL_CheckSequenceStatus() modified</li> <li>- AL_CheckSendAlarm() modified</li> </ul> <p>Modification of following functions:</p> <ul style="list-style-type: none"> <li>- Vpc3_Initialization( ... )</li> <li>- Vpc3_SetConstants( ... )</li> <li>- Vpc3_Isr( ... )</li> <li>- Vpc3_Poll( ... )</li> </ul> <p>New Feature:</p> <ul style="list-style-type: none"> <li>- MAC Reset added to dp_isr, Dp_Appl.c</li> </ul> <p><b>DP_VERSION_BUGFIX changed to 0x09</b></p>
V06.00.10	05.06.2013	<p><b>BugFix:</b></p> <ul style="list-style-type: none"> <li>- <b>Problems with PROFIBUS conformancetest:</b></li> <li>- Testcase: TC08 NMAS1, TC09 NMAS2</li> <li>  If the master sends two SetPrm telegrams, the software hangs in the functions DpDiag_SetPrmOk and the slave acknowledge with Prm fault.</li> </ul> <p>Function names changed:</p> <ul style="list-style-type: none"> <li>- DpDiag_PrmNotOk(...) --&gt; DpDiag_SetPrmNotOk( ... )</li> <li>- DpDiag_PrmOk(...) --&gt; DpDiag_SetPrmOk( ... )</li> </ul> <p>Modification of following functions:</p> <ul style="list-style-type: none"> <li>- DpDiag_SetPrmOk( ... )</li> </ul> <p><b>DP_VERSION_BUGFIX changed to 0x10</b></p>
V06.01.10	15.07.2013	<p>New function:</p> <ul style="list-style-type: none"> <li>- support of several ident numbers</li> </ul> <p><b>DP_VERSION_FUNCTION changed to 0x01</b></p>
V06.01.11	29.08.2013	<p><b>BugFix:</b></p> <p>I&amp;M record set 1 .. 4</p> <ul style="list-style-type: none"> <li>- after writing I&amp;M 1..4 it's not allowed to read I&amp;M 1..4.</li> </ul> <p><b>DP_VERSION_BUGFIX changed to 0x11</b></p>
V06.01.12	02.10.2014	<p><b>BugFix:</b></p> <ul style="list-style-type: none"> <li>- <b>Problems with PROFIBUS conformancetest:</b></li> <li>- Testcase: TC08 NMAS1, TC09 NMAS2</li> <li>  If the master sends two SetPrm telegrams, the software hangs in the functions DpDiag_SetPrmOk and the slave acknowledge with Prm fault.</li> </ul> <p>- Modification of following functions:</p> <ul style="list-style-type: none"> <li>- DpDiag_Alarm( ... )</li> <li>- DpDiag_SetPrmOk( ... )</li> </ul> <p><b>DP_VERSION_BUGFIX changed to 0x12</b></p>
V06.01.13	05.05.2015	<p>Modification of following function:</p> <ul style="list-style-type: none"> <li>- VPC3_UpdateDiagnosis( .. )</li> <li>  Now: copy to diag buffer if length &gt; 0</li> </ul> <p><b>BugFix</b> Redundancy System:</p> <ul style="list-style-type: none"> <li>- Modification of following function:</li> <li>- VPC3_InitBufferStructure( ... )</li> <li>- set following variable to zero:   pDpSystem-&gt;wVpc3UsedDPV0BufferMemory = 0;</li> <li>- AL_InitAlarm( ... )</li> <li>- don't clear alarm buffer in Redundancy Mode</li> </ul>

		<ul style="list-style-type: none"> <li>- AL_AlarmEnabled( ... )</li> <li>- AL_CheckTypeStatus( ... )</li> <li>- remove static</li> </ul> <p><b>DP_VERSION_BUGFIX changed to 0x13</b></p>
V06.01.14	19.11.2015	<p><b>BugFix:</b></p> <ul style="list-style-type: none"> <li>- Modification of following pointer cast:</li> <li>- pDpSystem-&gt;pDxbOutBuffer1</li> <li>- pDpSystem-&gt;pDxbOutBuffer2</li> <li>- pDpSystem-&gt;pDxbOutBuffer3</li> <li>- pDpSystem-&gt;pDoutBuffer1</li> <li>- pDpSystem-&gt;pDoutBuffer2</li> <li>- pDpSystem-&gt;pDoutBuffer3</li> <li>- pDpSystem-&gt;pDinBuffer1</li> <li>- pDpSystem-&gt;pDinBuffer2</li> <li>- pDpSystem-&gt;pDinBuffer3</li> <li>- pDpSystem-&gt;pDiagBuffer1</li> <li>- pDpSystem-&gt;pDiagBuffer2</li> </ul> <p><b>DP_VERSION_BUGFIX changed to 0x14</b></p>
V06.01.15		<p><b>BugFix:</b></p> <ul style="list-style-type: none"> <li>- Problems with PROFIBUS certification:             <ul style="list-style-type: none"> <li>- Testlab China</li> <li>- TC2C1_2: C2 channel is not closed</li> </ul> </li> </ul> <p><b>DP_VERSION_BUGFIX changed to 0x15</b></p>

## 2 Revision History

**Table 2-1** Revision history

Version	Date	Remarks
V06.01.15	20.11.2019	New document design

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