SIEMENS

Data sheet

product type designation

6GK5788-2GD00-0AA0



W788-2 M12

IWLAN Access Point, SCALANCE W788-2 M12, 2 radios, 6 N-CON antenna port, iFeatures support via KEY-PLUG, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbit/s per radio, 1x M12 max. 1 Gbit/s, PoE, redundant 24 V DC,M12 A-coded IP65, -20..+60 °C, plug slot, WPA2/802.11i/e, observe national approvals! CERT. ID RAPN-W2-M12-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: Manuals on CD-ROM, German/English, M12 sealing caps, for operation outside of USA/Israel .

transfer rate	
transfer rate	
 with WLAN / maximum 	450 Mbit/s
 for Industrial Ethernet 	10, 100, 1000 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	1000 Mbit/s
interfaces	
number of electrical connections	
 for network components or terminal equipment 	1
 for power supply 	1
 for redundant voltage supply 	1
type of electrical connection	
 for network components or terminal equipment 	M12 interface (8-pole, X-coded), PoE
 for power supply 	M12 interface (4-pole, A-coded)
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	Yes
memory	
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	Yes
interfaces / wireless	
number of radio cards / permanently installed	2
transmission mode / for multiple input multiple output (MIMO)	3x3
number of spatial streams	3
number of electrical connections / for external antenna(s)	6
type of electrical connection / for external antenna(s)	N-Connect (socket)
product feature / external antenna can be mounted directly on device	Yes
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage	
 from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af 	48 V
 from Power-over-Ethernet according to IEEE802.3at for type 2 	50 V
consumed current	

 at DC / at 24 V / typical 	0.63 A	
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	0.22 A	
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	0.3 A	
power loss [W]		
 at DC / at 24 V / typical 	15 W	
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	10.7 W	
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	15 W	
supply voltage / 1		
 from M12 Power Connector (A-coded) for redundant power supply 	19.2 V	
supply voltage / 2		
 from M12 Power Connector (A-coded) for redundant power supply 	28.8 V	
ambient conditions		
ambient temperature		
during operation	-20 +60 °C	
during storage	-40 +85 °C	
	-40 +85 °C	
• during transport relative humidity / at 25 °C / without condensation / during	-40 +85 C 90 %	
operation / maximum		
ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W788-x or W748-x product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.	
protection class IP	IP65	
design, dimensions and weights		
width / of the enclosure / without antenna	200 mm	
height / of the enclosure / without antenna	176 mm	
depth / of the enclosure / without antenna	79 mm	
net weight	1.7 kg	
fastening method	For 35 mm DIN rail mounting an additional mounting adapter is required	
• S7-300 rail mounting	Yes	
• S7-1500 rail mounting	Yes	
 35 mm top hat DIN rail mounting 	Yes	
• wall mounting	Yes	
radio frequencies		
operating frequency		
for WLAN in 2.4 GHz frequency band	2.41 2.48 GHz; depending on the country approvals	
• for WLAN in 5 GHz frequency band	4.9 5.8 GHz; depending on the country approvals	
product features, product functions, product components		
product function / Access Point Mode	Yes	
product function / client Mode	Yes	
number of SSIDs	16	
product function		
iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'	
iPCF client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'	
iPCF-MC Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'	
iPCF-MC client	Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures'	
number of iPCF-capable radio modules	2	
product function / iREF	No; In combination only with 'KEY-PLUG W780 iFeatures'	
number of iREF-capable radio modules	2	
product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only	
product functions / management, configuration, engineering		
number of manageable IP addresses / in client	8	
product function		
• CLI	Yes	

 web-based management Ves MB support Ves ITRAPs Vis email configuration with STEP 7 Ves configuration with STEP 7 Ves configuration with STEP 7 Ves operation with STEP 7 Ves forced rearing on Placeway MUAN controler No operation with Stepperid ves versed rearing on Placeway MUAN Ves ves versed rearing on Placeway MUAN Ves <lives< li=""> ves</lives<>	web based as a second	Ver
• TRAPs via email Yes • configuration with STEP 7 in the TLA Portal Yes • operation with ETHEP 7 in the TLA Portal Yes • operation with ETHEP 7 in the TLA Portal Yes • operation with ETHEP 7 in the TLA Portal Yes • operation with ETHEP 7 in the TLA Portal Yes • operation with ETHEP 7 in the TLA Portal Yes • forced roaming on In Adom with IVLLAN Yes • forball Yes <td></td> <td></td>		
• configuration with STEP 7 Yes • configuration with STEP 7 Yes • configuration with INLAN controller No • operation with INLAN controller No • fored roaming on Pid own with INLAN Yes • fored roaming on Pid own with INLAN Yes • MOS Yes • MOS Yes • Address Resolution Protocol (ARP) Yes • Address Resolution Protocol (ARP) Yes • Tenen Yes • Tenen Yes • Tenen Yes • TETP Yes • TETP Yes • LLDP Yes • LLDP Yes • KBMO - divers-especific information Yes • MOMS Yes • FIRTP Yes • FIRTP Yes • Robin Hogher level designation/location designation Yes • FIRTP Yes • FIRTP Yes • FIRTP Yes • FIRTP Yes • Moder lanchain Yes • FIRTP Yes • Moder lanchain Yes • FIRTP Yes • Moder lanchain Yes • Protochain suported Yes • Sim Pr 2 <td></td> <td></td>		
• configuration with STEP 7 in the TA Portal Yes • operation with Catherarys WLAN controller No • forced rearing on link down with IWLAN Yes • MOS Yes • forced rearing on link down with IWLAN Yes • MOS Yes • forced rearing on link down with IWLAN Yes • MOS Yes • forced rearing on link down with IWLAN Yes • forced rearing on link down with IWLAN Yes • forced rearing on link down with IWLAN Yes • CLAP Yes • CLAP Yes • CLAP Yes • Intert Yes • HITTPS Yes • DOP Yes • LLDP Yes • EMA1 - Bayler level designation Yes • Forther Linchon Yes • Forther Linchon Yes • Forther Linchon Yes • Forduct function Ye		
• operation with INLAN controllerNo• operation with Entersays WLAN controllerNo• forced rearning on IP down with INLANYes• forced rearning on III. down with INLANYes• WDSYes• CAIdes Resolution Protocol (ARP)Yes• CAIdes Resolution Protocol (ARP)Yes• CAIdes Resolution Protocol (ARP)Yes• TainalYes• TainalYes• TainalYes• TTPPYes• TTPPYes• CAIdes Resolution Protocol (ARP)Yes• Edition SYes• TTPPYes• TainalYes• CAIdes Resolution Protocol (ARP)Yes• CAIdes Resolution Protocol (ARP)Yes• CAIdes Resolution InformationYes• CAIdes Resolution Protocol (ARP)Yes• CAIdes Resolution Protocol (Resolution designationYes• CAIdes Resolution Protocol (Resolution designationYes• PROFINET ID diagnosisYes• PROFINET ID diagnosisYes• Inic checkNo• contraction monitoring IP-AliveNo• contraction monitoring IP-AliveNo• contraction Nal ArtersocutYes• SIMMP V1Yes• SIMMP V2Yes• SIMMP V3Yes• Droduct functionYes• Droduct functionYes• Droduct functions / VLANYes• Droduct functions / VLANYes• SIMMP V2Yes• SIMMP V3Yes• Droduct f	-	
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• WDS Yes protocol /is supported Yes • Address Resolution Protocol (ARP) Yes • ICLMP Yes • Tennet Yes • Tennet Yes • ITTPS Yes • HTTPS Yes • DCP Yes • LLDP Yes • Identification & maintenance function Yes • Identification information Yes • Systog Yes • Systog Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • Droduct functions / ULAN Yes • Solutions / Jecurity Yes product function Yes <		
protocol / is supported Yes • CAMP Yes • CIAP Yes • Teinet Yes • HTTP Yes • HTTPS Yes • TETP Yes • LOP Yes • LDP Yes • LDP Yes • LBM - device-specific information Yes • LBM - fubre fived designation/location designation Yes product functions / maintenance function Yes • LBM - higher fived designation/location designation Yes • Iskin - higher fived designation/location designation Yes • ProfUnct function Yes • Iskin - higher fived designation/location designation Yes • ShMP Yi Yes • ShMP Yi Yes • ShMP Yi Yes <t< td=""><td></td><td></td></t<>		
+ Address Resolution Protocol (ARP) Yes • ICMP Yes • Tenhet Yes • ITTPS Yes • ITTPS Yes • ITTPS Yes • ILDP Yes • ILDP Yes • ILDP Yes • Identification & maintenance function Yes • IBMO - device-specific information Yes • SIMMP v1 Yes • SIMMP v2 Yes • SIMMP v3 Yes • SIMMP v3 Yes • DickP client Yes • DickP client Yes • DickP coption 82 Yes • DickP coption 82 Yes • DickP coption 82 Yes • Di		Yes
 ICMP Yes Teinet Yes HTTP Yes HTTPS Yes TTP Yes UDP Yes Identification & maintenance function I&MO - device-specific information Yes IMMO - device-specific information Yes <li< td=""><td></td><td>N</td></li<>		N
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• HTTPS Yes • DCP Yes • LLDP Yes identification & naintenance function Yes • IBM0 - device-specific information Yes • IBM0 - device-specific information Yes • Product functions / diagnosis Yes • Product functions / diagnosis Yes • IBM - higher level designation/location designation Yes • Product functions Yes • IBM - device-specific information Yes • IBM - device-specific information Yes • IBM - device-specific information Yes • IBM0 - device-specific information Yes • Isolation via Advance Yes • SNMP V3 Yes • SNMP V3 Yes product function Yes • DHCP Pointal Yes • DHCP Option 82 Yes • DHCP Option 82 Yes • STPRTSP Yes • SRTP Yes • Matthenal / security Yes • Modult function Yes		
• TFTP Yes • LDP Yes identification & maintenance function Yes • I8M0 - device-specific information Yes • I8M1 - higher level designation/location designation Yes product functions / diagnostics Yes product functions / diagnostics Yes or econvection monitoring IP-Alive No • convection monitoring IP-Alive No • SNMP v1 Yes • SNMP v2 Yes • SNMP v2 Yes • SNMP v2 Yes • SNMP v2 Yes • SNMP v3 Yes • Store VAN Yes product functions / VLN Yes • DHCP Client Yes • DHCP Client Yes • DHCP Client Yes • STPRSTP Yes • SSTP Yes • SSTP Yes • NAT/NAPT No • ACL • MAC-based Yes • NATINAPT Yes <td< td=""><td></td><td></td></td<>		
• DCP Yes • LLDP Yes (identification & maintenance function Yes • IBMO - device-specific information Yes • IBM - higher level designation/location designation Yes product functions / diagnosis Yes • IBK / check No • link / check No • localization via Aeroscout Yes • Systog Yes protoct functions via Aeroscout Yes • Systog Yes protoct functions via Aeroscout Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes product functions / VLAN Yes product functions / VLAN Yes product functions / VLAN with IWLAN Yes product functions / Person Yes protocol / is supported Yes protocol / is supported Yes • DHCP Deriver Yes protocol / is supported Yes • STP/RSTP Yes • RSTP Yes		
• LLDP Yes Identification & maintenance function		
identification & maintenance function Yes iRM0 - device-specific information Yes product functions / diagnosis Yes product function ProCNINET 10 diagnosis Yes • IRM0 + nighter level designation/location designation Yes • IRM0 + nighter level designation/location designation Yes • PROCINET 10 diagnosis Yes • Inix check No • connection monitoring IP-Alive No • localization via Aeroscout Yes • SIMIP v1 Yes • SIMIP v2 Yes • SIMIP v3 Yes product functions / VLAN Yes product functions / VLAN Yes product functions / VLAN Yes product functions / DHCP Yes product functions / DHCP Yes product functions / VLAN Yes product functions / Pactor Yes product functions / Pactor Yes protoci / is supported Yes e STP/RSTP Yes intellex / security Yes product functions / security Yes intellex / Advabased Yes intellex / Strip Yes intellex / Strip Yes intellex / Advabased		
• I&M0 - device-specific information Yes product functions / diagnostics Yes product functions / diagnostics Yes • Ink check No • connection monitoring IP-Alive No • localization via Aeroscout Yes • SysLog Yes protoct functions / diagnostics Yes • localization via Aeroscout Yes • SysLog Yes protocol / is supported Yes • SIMIP v1 Yes • SIMIP v2 Yes • SIMIP v3 Yes product functions / VLAN Yes product functions / DHCP Yes product functions / PHCP Yes product functions / DHCP Yes product functions / example Yes • DHCP Option 82 Yes • STP/RSTP Yes • RSTP Yes • RSTP Yes • ACL - MAC-based Yes • RADIUS Yes • NAT/NAPT No • ACL - MAC-based Yes • RADIUS Yes		Yes
• I&M1 - higher level designation/location designation Yes product functions/ • • PROFINET IO diagnosis Yes • Ink check No • connection monitoring IP-Alive No • localization via Aeroscout Yes • SysLog Yes • protocol / is supported · • SIMMP v1 Yes • SIMMP v2 Yes • SIMMP v3 Yes protocol / is supported · • SIMMP v3 Yes product functions /VLAN Yes product function /LAN with IWLAN Yes • DHCP Cellent Yes • DHCP Cellent Yes • DHCP Option 82 Yes product functions / rodundancy Yes protocol / is supported · • STP/RSTP Yes • STP/RSTP Yes • RSTP Yes • RSTP Yes • Cold function / ACL-IP based Yes • NAC/NAPT No • access protection according to IEEE802.11i Yes • NET/NAPT No • access protection according to IEEE802.11i Yes • NET/NAPT No • access protection according to IEEE802.11i Yes		N
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• PROFINET IO diagnosis Yes • link check No • connection monitoring IP-Alive No • localization via Aeroscout Yes • SysLog Yes protocol / is supported Yes • SNMP v1 Yes • SNMP v2 Yes product functions / VLAN Yes product function Yes • Innction VLAN with IWLAN Yes product function Yes • DHCP client Yes • DHCP Server Yes • DHCP Server Yes • DHCP Option 82 Yes product functions / redundancy Yes product function Yes • STP Yes • STP Yes • NSTP Yes • ACL - MAC-based Yes • NAT/NAPT No • access protection according to IEEE802.111 Yes • STRIPALES Yes • NAT/NAPT No • ACCL - MAC-based Yes • NAT/NAPT No • ACCL STA (radius) Yes <tr< td=""><td></td><td></td></tr<>		
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• localization via Aeroscout Yes • SysLog Yes protocol / is supported . • SNMP v1 Yes • SNMP v3 Yes product functions Yes product function . • function VLAN with IWLAN Yes product function . • OHCP client Yes • DHCP option 82 Yes product function . • DHCP Option 82 Yes product functions / security Yes product functions / security Yes product function (security) Yes product function 82 Yes product functions / security Yes product functions / security Yes product function / security Yes i EEE 802.1x (radius) Yes		
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• SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes product functions /VLAN Yes product function • function VLAN with IWLAN • function / UHCP Yes product function • OHCP client • DHCP client Yes • DHCP Option 82 Yes product functions / redundancy Yes product functions / security Yes product function Yes • ACL - MAC-based Yes • MATINAPT No • Caccess protection according to IEEE802.11i Yes • TKIP/AES Yes prodouct / is supported Yes • RATINAPT No • RATINAPT No • RATINAPT No • Caccess protection according to IEEE802.11i Yes • TKIP/AES Yes protocol / is supported Yes • RADIUS Yes		Yes
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• SNMP v3Yesproduct functions / VLANproduct functionYesproduct functions / DHCPYesproduct functions / DHCPYesproduct functions / DHCP clientYes• DHCP clientYes• DHCP option 82Yesproduct functions / redundancyYesproduct functions / supportedYes• STP/RSTPYes• STP/RSTPYes• RSTPYesproduct functions / securityYesproduct functionYes• RACL - MAC-basedYes• management security, ACL-IP basedYes• NAT/NAPTNo• access protection according to IEEE802.111Yes• TKIP/AESYes• TKIP/AESYes• RADIUSYes• RADIUSYes• RADIUSYes		
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• DHCP clientYes• DHCP serverYes• DHCP Option 82Yesproduct functions / redundancyprotocol / is supported• STP/RSTPYes• MSTPYes• RSTPYes• RSTPYesproduct functions / securityYesproduct function• ACL - MAC-basedYes• MAT/NAPTNo• NAT/NAPTNo• access protection according to IEEE802.11iYes• TKIP/AESYes• TKIP/AESYes• RADIUSYes		
• DHCP serverYes• DHCP Option 82Yesproduct functions / redundancyprotocol / is supported• STP/RSTPYes• MSTPYes• RSTPYes• RSTPYesproduct functions / securityproduct function///////////////////////////////	•	
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• MSTP • RSTPYesproduct functions / securityproduct function• ACL - MAC-based• ACL - MAC-based• management security, ACL-IP basedYes• IEEE 802.1x (radius)• NAT/NAPT• NAT/NAPT• WPA/WPA2• TKIP/AESprotocol / is supported• SSH• RADIUSYes		
• RSTPYesproduct functionYesproduct functionYes• ACL - MAC-basedYes• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• RADIUSYes		
product functions / securityproduct function• ACL - MAC-based• MAC-based• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPT• access protection according to IEEE802.11iYes• WPA/WPA2• TKIP/AESProtocol / is supported• SSH• RADIUSYes		
product functionYes• ACL - MAC-basedYes• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• RADIUSYes	-	Yes
ACL - MAC-basedYes• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYes		
• management security, ACL-IP basedYes• IEEE 802.1x (radius)Yes• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYes• protocol / is supportedYes• SSHYes• RADIUSYes	•	
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• NAT/NAPTNo• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYes		
• access protection according to IEEE802.11iYes• WPA/WPA2Yes• TKIP/AESYesprotocol / is supportedYes• SSHYes• RADIUSYes		
• WPA/WPA2 Yes • TKIP/AES Yes protocol / is supported Yes • SSH Yes • RADIUS Yes		
• TKIP/AES Yes protocol / is supported • SSH Yes • RADIUS Yes		
protocol / is supported • SSH • RADIUS Yes		
SSH Yes RADIUS Yes		Yes
RADIUS Yes		
product functions / time		Yes
	product functions / time	

protocol / is supported	
protocol / is supported NTP 	Vac
• NTP • SNTP	Yes Yes
SIMATIC time synchronization (SIMATIC Time)	
, ,	Yes
standards, specifications, approvals	
standard	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1
certificate of suitability	0E 00000-1, 00A 022.2 No. 00000-1
EC Declaration of Conformity	Yes
• CE marking	Yes
• C-Tick	Yes
• E1 approval	Yes
 railway application in accordance with EN 50155 	Yes
 railway application in accordance with EN 50121-4 	Yes
 fire protection in accordance with EN 45545-2 	Yes
NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	No
Power-over-Ethernet according IEEE802.3at for	Yes
type 1 and IEEE802.3af	
 Power-over-Ethernet according to IEEE802.3at for type 2 	Yes
standard for wireless communication	
• IEEE 802.11a	Yes
• IEEE 802.11b	Yes
• IEEE 802.11e	Yes
• IEEE 802.11g	Yes
• IEEE 802.11h	Yes
• IEEE 802.11i	Yes
• IEEE 802.11n	Yes
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classificatio	n
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	Yes
• DNV GL	Yes
 Korean Register of Shipping (KRS) 	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
 Polski Rejestr Statkow (PRS) 	Yes
 Royal Institution of Naval Architects (RINA) 	Yes
standards, specifications, approvals / hazardous environn	nents
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• from CSA and UL	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links	
Internet-Link	
to website: TIA Selection Tool	http://www.siemens.com/tia-selection-tool
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
• to the website: IWLAN	http://www.siemens.com/iwlan
• to website: Industry Mall	https://mall.industry.siemens.com
 to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
 to website: Image database 	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax
5	

• to website: Industry Online Support

security information

security information

https://support.industry.siemens.com

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