[MS-CSRA]: Certificate Services Remote Administration Protocol

This topic lists the Errata found in the MS-CSRA document since it was last published. Since this topic is updated frequently, we recommend that you subscribe to these RSS or Atom feeds to receive update notifications.

Errata are subject to the same terms as the Open Specifications documentation referenced.

Errata below are for Protocol Document Version V38.0 – 2018/09/12.

Errata Published*	Description
2020/08/17	In Section 3.1.4.2.14 ICertAdminD2::GetConfigEntry (Opnum 44), revised the processing rules for the second and sixth Input Parameters in the table of this section to clarify that the value of the Authority parameter determines whether one of two registry keys is loaded and subsequently whether a Get or Set operation is performed on the relevant loaded key. Changed from: pwszNodePath is EMPTY and pwszEntry is "SetupStatus" pwszNodePath is EMPTY and pwszEntry is "Version" Changed to: pwszAuthority is EMPTY and pwszNodePath is EMPTY and pwszEntry is "SetupStatus". pwszAuthority is EMPTY and pwszNodePath is EMPTY and pwszEntry is "Version" ***** In 3.1.4.2.15 ICertAdminD2::SetConfigEntry (Opnum 45), revised the processing rules for the second and sixth Input Parameters in the table of this section for the SetConfigEntry method, to clarify that the value of the Authority parameter determines whether one of two registry keys is loaded and subsequently whether a Get or Set operation is performed on the relevant loaded key. Changed from: pwszNodePath is EMPTY and pwszEntry is "SetupStatus" pwszNodePath is EMPTY and pwszEntry is "Version" Changed to: pwszAuthority is EMPTY and pwszNodePath is EMPTY and pwszEntry is "SetupStatus". pwszAuthority is EMPTY andpwszNodePath is EMPTY and pwszEntry is "Version"

Errata Published*		Description
2020/08/17		In Section 3.1.4.2.14 ICertAdminD2::GetConfigEntry (Opnum 44), removed the row containing 'pwszNodePath is EMPTY and pwszEntry is OCSPURLs' in two tables, as OCSPURLs is an invalid entry.
		Changed from:
		Input Parameters	Processing rule for pVariant
		pwszNodePath is EMPTY and pwszEntry is "CACertPublicationURLs"	The CA MUST use the values of the following ADM elements to create the VARIANT returned: OnNextRestart_Config_CA_AIA_Include_In_Cert OnNextRestart_Config_CA_CACert_Publish_To The vt member of the VARIANT MUST be set to VT_ARRAY | VT_BSTR and the pArray member MUST reference a single dimension safearray. The number of elements of the safearray referenced by pArray MUST be equal to the number of URLs. For each URL, there MUST be an element in the safearray referenced by pArray containing the BSTR for the Unicode string value of the URI. Each URI is of the format "NumericPrefix:URI", where NumericPrefix is the decimal value corresponding to the combination of following flags: 0x00000001 – The CA must publish the CAcertificate (1)(s) to the URI (OnNextRestart_Config_CA_CACert_Publish_To). 0x00000002 – The URI is to be added in the AIA extension of the certificates (1) issued by the CA (OnNextRestart_Config_CA_AIA_Include_In_Cert).
		pwszNodePath is EMPTY and pwszEntry is "OCSPURLs"	The CA MUST return the value of the OnNextRestart_Config_CA_OCSP_Include_In_Cert ADM element as a VARIANT. The vt member of the VARIANT MUST be set to VT_ARRAY | VT_BSTR and the pArray member MUST reference a single dimension safearray. The number of elements of the safearray referenced by pArray MUST be equal to the number of machines running Online Responder Service with the same configuration information. For each machine, there MUST be an element in the safearray referenced by pArray containing the BSTR for the

Errata Published*	Description

	Unicode string value of the URI of the machine.
pwszNodePath is "PolicyModules\CertificateAuthority_MicrosoftDefault.Policy" and pwszEntry is "RequestDisposition"	The CA MUST return the value of the OnNextRestart_Config_CA_Requests_Disposition as a VARIANT. The vt member of VARIANT MUST be set to VT_I4 and the lVal member MUST be the value of the OnNextRestart_Config_CA_Requests_Disposition ADM element. The value of this ADM element determines whether the CA sets all requests to pending, accepts all requests, or denies all requests.

Changed to:

Input Parameters	Processing rule for pVariant
pwszNodePath is EMPTY and pwszEntry is "CACertPublicationURLs"	The CA MUST use the values of the following ADM elements to create the VARIANT returned: OnNextRestart_Config_CA_AIA_Include_In_Cert OnNextRestart_Config_CA_CACert_Publish_To The vt member of the VARIANT MUST be set to VT_ARRAY | VT_BSTR and the pArray member MUST reference a single dimension safearray. The number of elements of the safearray referenced by pArray MUST be equal to the number of URLs. For each URL, there MUST be an element in the safearray referenced by pArray containing the BSTR for the Unicode string value of the URI. Each URI is of the format "NumericPrefix:URI", where NumericPrefix is the decimal value corresponding to the combination of following flags: 0x00000001 – The CA must publish the CAcertificate (1)(s) to the URI (OnNextRestart_Config_CA_CACert_Publish_To). 0x00000002 – The URI is to be added in the AIA extension of the certificates (1) issued by the CA (OnNextRestart_Config_CA_AIA_Include_In_Cert).
pwszNodePath is "PolicyModules\CertificateAuthority_MicrosoftDefault.Policy" and pwszEntry is "RequestDisposition"	The CA MUST return the value of the OnNextRestart_Config_CA_Requests_Disposition as a VARIANT. The vt member of VARIANT MUST be set to VT_I4 and the

Errata Published*	Description
	lVal member MUST be the value of the OnNextRestart_Config_CA_Requests_Disposition ADM element. The value of this ADM element determines whether the CA sets all requests to pending, accepts all requests, or denies all requests. In Section 3.1.4.2.15 ICertAdminD2::SetConfigEntry (Opnum 45), removed the row containing 'pwszNodePath is EMPTY and pwszEntry is OCSPURLs' in two tables, as OCSPURLs is an invalid entry. Changed from: *(see table below)* Changed to: *(see table below)*
2020/07/20	In Section 2.2.1.11, added the optional ACCESS_DENIED_CALLBACK_ACE type for all access control entries (ACEs) in the discretionary access control list (DACL), as a security descriptor property for Officer rights and Enrollment Agent rights. Changed from: "1. AceType 0x9 (ACCESS_ALLOWED_CALLBACK_ACE_TYPE for the ACCESS_ALLOWED_CALLBACK_ACE, [MS-DTYP] section 2.4.4.6)." Changed to:"1. Either the AceType 0x9 (ACCESS_ALLOWED_CALLBACK_ACE_TYPE for the ACCESS_ALLOWED_CALLBACK_ACE, [MS-DTYP] section 2.4.4.6), or the AceType 0x0A (ACCESS_DENIED_CALLBACK_ACE_TYPE for the ACCESS_DENIED_CALLBACK_ACE, [MS-DTYP] section 2.4.4.7)."

Changed from:

Input	Store information as ADM element
pwszNodePath is EMPTY and pwszEntry is "CACertPublicationURLs"	OnNextRestart_Config_CA_AIA_Include_In_Cert OnNextRestart_Config_CA_CACert_Publish_To
pwszNodePath is EMPTY and pwszEntry is "OCSPURLs"	OnNextRestart_Config_CA_OCSP_Include_In_Cert
pwszNodePath is EMPTY and pwszEntry is "CRLAttemptRepublish"	OnNextRestart_Config_CA_CRL_Attempt_Republish

Changed to:

Input	Store information as ADM element
pwszNodePath is EMPTY and pwszEntry is "CACertPublicationURLs"	OnNextRestart_Config_CA_AIA_Include_In_Cert OnNextRestart_Config_CA_CACert_Publish_To
pwszNodePath is EMPTY and pwszEntry is "CRLAttemptRepublish"	OnNextRestart_Config_CA_CRL_Attempt_Republish

Errata Published*	Description
2019/03/18	In this document, changed the default value of the CA for Windows Server 2019. In Section 3.1.4.2.14, ICertAdminD2::GetConfigEntry (Opnum 44), changed from: … 8. For each input in the left column of the table below, the CA MUST perform the processing rules in the corresponding cell in the right column. _[see table below]_ Changed to: … 8. For each input in the left column of the table below, the CA MUST perform the processing rules in the corresponding cell in the right column. _[see table below]_

First embedded table:

Input Parameters	Processing rule for pVariant
…	…
pwszNodePath is EMPTY and pwszEntry is "Version"	The CA MUST return the value of the OnNextRestart_Config_Product_Version ADM element as a VARIANT. The vt member of the VARIANT MUST be set to VT_I4 and the lVal member MUST be set to the one of the following values: 0x00010001 – Server is Windows 2000 Server operating system 0x00020002 – Server is Windows Server 2003 operating system 0x00030001 – Server is Windows Server 2008 operating system 0x00040001 – Server is Windows Server 2008 R2 operating system 0x00050001 – Server is Windows Server 2012 operating system 0x00060001 – Server is Windows Server 2012 R2 operating system <72> 0x00070001 – Server is Windows Server 2016 operating system 0x00080001 – Server is Windows Server 2019 operating system
…	…

Second embedded table:

Input Parameters	Processing rule for pVariant
…	…
pwszNodePath is EMPTY and pwszEntry is "Version"	The CA MUST return the value of the OnNextRestart_Config_Product_Version ADM element as a VARIANT.

Errata Published*	Description
	The vt member of the VARIANT MUST be set to VT_I4 and the lVal member MUST be set to the one of the following values: 0x00010001 – Server is Windows 2000 Server operating system 0x00020002 – Server is Windows Server 2003 operating system 0x00030001 – Server is Windows Server 2008 operating system 0x00040001 – Server is Windows Server 2008 R2 operating system 0x00050001 – Server is Windows Server 2012 operating system 0x00060001 – Server is Windows Server 2012 R2 operating system <72> 0x00070001 – Server is Windows Server 2016 operating system or Windows Server 2019 operating system
	… …

In Section 7, Appendix B: Product Behavior, changed from:

<11> Section 3.1.1.10: Microsoft CAs persist only a subset of the configuration data. They store the configuration data in the registry in the following locations:

…

Version

ADM Datum: Config_Product_Version and OnNextRestart_Config_Product_Version

Registry Value Type: REG_DWORD

Default Value: By default, the value depends on the Windows version:

…

0x00080001: Windows Server 2019

Changed to:

<11> Section 3.1.1.10: Microsoft CAs persist only a subset of the configuration data. They store the configuration data in the registry in the following locations:

…

Version

ADM Datum: Config_Product_Version and OnNextRestart_Config_Product_Version

Registry Value Type: REG_DWORD

Default Value: By default, the value depends on the Windows version:

…

0x00070001: Windows Server 2016 or Windows Server 2019

*Date format: YYYY/MM/DD