



Solution Deployment Descriptor Starter Profile Version 1.0

Committee Draft

8 April 2008

Document URIs:

This Version:

<http://docs.oasis-open.org/sdd/v1.0/cd01/sdd-starter-profile-v1.0-cd01.doc>
<http://docs.oasis-open.org/sdd/v1.0/cd01/sdd-starter-profile-v1.0-cd01.pdf>
<http://docs.oasis-open.org/sdd/v1.0/cd01/sdd-starter-profile-v1.0-cd01.html>

Previous Version:

N/A

Latest Version:

<http://docs.oasis-open.org/sdd/v1.0/sdd-starter-profile-v1.0.doc>
<http://docs.oasis-open.org/sdd/v1.0/sdd-starter-profile-v1.0.pdf>
<http://docs.oasis-open.org/sdd/v1.0/sdd-starter-profile-v1.0.html>

Technical Committee:

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Related work:

This expository document replaces or supersedes:

- None

This expository document is related to:

- Solution Deployment Descriptor (SDD) Specification

Declared XML Namespace(s):

None

Abstract:

This expository document provides non-normative information to supplement the Solution Deployment Descriptor (SDD) specification and serves as a companion guide for the SDD Starter Profile Schema.

Status:

This document was last revised or approved by the Solution Deployment Descriptor (SDD) Technical Committee on the above date. The level of approval is also listed above. Check the "Latest Version" or "Latest Approved Version" location noted above for possible later revisions of this document.

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1 Introduction

The *Solution Deployment Descriptor (SDD) Starter Profile* supplements the current specification **[SDD]** and associated schema **[SDD_Schema]**. The intent is to capture the knowledge of the SDD community to promote interoperability.

- This Starter Profile exploits and extends CIM models as necessary. Other profiles might use other resource models.
- All profiles are non-normative.

Ontology is a data model that represents a set of concepts within a domain and the relationships between those concepts. It is used to *reason* about the objects within that domain.

An informal ontology may be specified by a catalog of types that are either undefined or defined only by statements in a *natural language*. An informal ontology may be specified by a collection of names for concept and relation types organized in a *partial ordering* by the type-subtype relation.

The Starter Profile presented here along with associated information presented here constitute an *informal ontology* that leverages natural language, partial ordering and provides a means of reasoning about objects within the domain.

Profiles provide the mechanism for communicating which *resource types* an implementation supports and on which a particular SDD depends. A core assumption is that an understanding of specific resource types and resource characteristics is *shared* by the deployment descriptor author (SDD producer) and the deployment environment (SDD consumer).

For example, if an SDD author declares a resource type for a particular operating system, deployment software operating on that SDD needs to understand how to discover operating systems of that type to honor the SDD author's intent when deploying that SDD. Moreover, the SDD producer and SDD consumer need to agree on the common vocabulary for expressing that particular operating system and resource type.

SDD producers and consumers should strive for interoperability in implementations. Profiles are intended to aid interoperability between implementations in support of the SDD standard. Profiles do not guarantee interoperability, however.

1.1 Terminology

Classes as used in this document refer to type of a resource for which most are defined by DMTF's Common Information Model **[CIM]**. Consumers and producers that implement profiles are encouraged to use a terminology appropriate to map the profile to the resource model referenced and/or extended. Resources, properties, constraints and other attributes associated with resources are used in the context of SDD v1.0. For definition of these terms in the context of SDD v1.0, refer to the SDD v1.0 specification **[SDD]** and the SDD v1.0 schema **[SDD_Schema]**.

1.2 Purpose

The purpose of this document is to specify and describe accepted starter profile terms, definitions and the context in which the terms and definitions have meaning. The Starter Profile serves as an example from which other profiles may be constructed.

1.3 Scope

The scope of this document is the definition of a Starter Profile that is associated with the SDD v1.0 specification. Resource types documented herein are for illustrative purposes only. The Starter Profile serves only to provide the list of commonly used resources that software engineers may use when creating SDDs. The profile is not meant to document all possible resource types or relationships among those resources, although common relationships, such as a connect relationship, may be explicitly expressed within the profile.

46 Runtime implementations to process SDDs should take into account profiles and differing resource
47 models that may be expressed within a profile. Implementers should consider how resources defined in a
48 profile will be discovered, managed, operated on, and so on by a runtime.

49 **1.4 Audience**

50 This document is intended to assist the community of SDD producers and consumers.

51 **1.5 Motivation**

52 The motivation for producing this document is to promote interoperability and to engage the greater SDD
53 technical community in the *production and consumption* of the SDD specification.

54 **1.6 Requirements**

55 The Starter Profile is to provide a first reference source for producers of SDDs.

56 **1.7 Notational Conventions**

57 This document contains cross-references. Such references appear as the referenced section number
58 inside square brackets, for example, [4.5]. In electronic versions of this specification, the cross-references
59 can act as links to the target section.

60 **1.8 Normative References**

- 61 **[SDD]** OASIS, Solution Deployment Descriptor Specification v1.0,
62 <http://docs.oasis-open.org/sdd/v1.0/pr01/sdd-spec-v1.0-pr01-r01.doc>.
63 **[SDD_Schema]** OASIS, Solution Deployment Descriptor Specification v1.0, Full Schema,
64 <http://docs.oasis-open.org/sdd/v1.0/pr01/FullSchema/>.

65 **1.10 Non-Normative References**

- 66 **[CIM]** Distributed Management Task Force, Inc., Common Information Model (CIM)
67 <http://www.dmtf.org/standards/cim/>.
68 **[SDDEX]** Solution Deployment Descriptor Examples,
69 <http://docs.oasis-open.org/sdd/v1.0/pr01/expository/sdd-examples-v1.0-cd01.zip>.
70 **[SDDP]** Solution Deployment Descriptor Primer,
71 <http://docs.oasis-open.org/sdd/v1.0/pr01/expository/sdd-primer-v1.0-cd01.doc>.
72 **[SDDSPS]** Solution Deployment Descriptor Starter Profile Schema,
73 [http://docs.oasis-open.org/sdd/v1.0/pr01/expository/cd01-sdd-starter-profile-](http://docs.oasis-open.org/sdd/v1.0/pr01/expository/cd01-sdd-starter-profile-v1.0.xsd)
74 [v1.0.xsd](http://docs.oasis-open.org/sdd/v1.0/pr01/expository/cd01-sdd-starter-profile-v1.0.xsd).

75

76

77 2 Starter Profile

78 Classes defined and referenced in the Starter Profile serve as an aid to SDD authors for defining values
79 for well known resource types. Potential uses of the classes defined herein are for specifying
80 *ResourceType*, *PropertyConstraint*, *ConsumptionConstraint* and other elements and attributes of an SDD.
81 For illustrations of how to use values defined in this Starter Profile, refer to the SDD examples [SDDEX]
82 and SDD Primer [SDDP].

83 This Starter Profile is:

- 84 • Based on the CIMv2.1.5 model and associated classes [CIM]
- 85 • Based on plausible extensions to CIM
- 86 • A set of declarations based on the needs of the SDD specification

87 Other profiles could be based on other models.

88 The classes and attributes for the Starter Profile are defined in Appendix A. A schema representation of
89 the Starter Profile is also available; see [SDDSPS].

90 2.1 Profile Usage

91 The OASIS SDD TC does not formally govern the production of profiles. The OASIS SDD TC does,
92 however, recommend certain guidelines for producing profiles. These guidelines include:

- 93 • Before creating new profiles, search for existing profiles that meet implementation needs. The
94 OASIS SDD TC will maintain pointers to well known and frequently used profiles when the
95 TC is made aware of these.
- 96 • Where applicable to implementation requirements, extend existing profiles before creating
97 new ones. For example, if the Starter Profile published here lacks a class needed for the
98 implementation, a simple extension to this Starter Profile is preferred over creating a new
99 profile. An extension to a profile is an additional profile that defines the additional types and
100 values needed. Consumers and producers would refer to both the Starter Profile and the
101 profile that extends it. Consumers and producers can use and support any number of profiles.
- 102 • If implementation requirements are not met by using or extending an existing profile, a new
103 profile should be created. The OASIS SDD TC recommends publishing the new profile into a
104 namespace. The OASIS SDD TC may also be contacted for awareness of the new profile.

105 The OASIS SDD TC does not govern consumption of profiles. The OASIS SDD TC does, however,
106 recommend certain guidelines for consumers of profiles. These guidelines include:

- 107 • Consumers of profiles should explicitly state which profile(s) is (are) supported.
- 108 • Implementations of SDD consumption tools, such as deployment runtime software, should
109 allow for extensions of the supported profiles. SDD tools that do not allow for extension and
110 are tightly coupled with a single profile or collection of profiles may not be viable as new
111 resource models emerge. Tools that allow for extension are preferred.

112 SDD producers should compare profile needs with published profiles supported by SDD tools. For a
113 producer to use a consumer tool, the producer's profile must match a subset of the consumer's profile. If
114 it does not, producers should, where possible, extend the consuming tool or determine if another tool that
115 supports the profile is available.

116 The OASIS SDD TC will maintain pointers to well known and frequently used tools that correspond to well
117 known and frequently used profiles when the TC is made aware of these.

118 SDD producers should use the following recommended best practices to create a new profile or extend
119 an existing profile:

- 120 1. When extending an existing profile, such as the Starter Profile, include namespace references to
121 the profile that is extended as well as the additional (extended) profile(s).
- 122 2. Producers should not copy content from an existing profile to include in a new profile.
- 123 a. The existing profile(s) that contains the desired content should be referenced via
124 namespace in the SDD, rather than being copied into a new profile.
- 125 b. The new (extended) profile should contain just the extensions to the profile that is
126 extended.
- 127 3. If no profile exists that meets the requirements of the SDD producer, and extending an existing
128 profile does not meet those requirements, then a new profile may be created.
- 129 a. The new profile should be a schema document and referenced via namespace in the
130 SDD in the same manner as an existing profile is referenced. The Starter Profile schema
131 can be used as a model or example for the new profile.
- 132 b. When an SDD producer creates a new profile, the producer's profile must match a subset
133 of some consumer's profile to be useful. This might be accomplished by producing new
134 deployment runtime software or extending an existing runtime to process the resources
135 defined in the new profile

136 SDD consumers should provide for interoperability by allowing extensions to the consumer software. The
137 OASIS SDD TC recommends the following best practices for consumers of SDD and profile documents.

- 138 1. SDD consumers can achieve this extensibility by using a framework/plugin implementation
139 model (or equivalent) such that if an SDD producer has a need to extend a profile, then the
140 producer or other party can provide plug-in code to extend the runtime software to add
141 capabilities to process resources defined in the extended profile.
- 142 2. In addition to allowing for extension of the runtime software to process newly defined resources
143 within a particular hosting environment, runtime implementations also should allow for extension
144 of hosting environments.
- 145 • For example, if an SDD runtime implementation supports only Windows™¹, then the
146 runtime software should allow extensions to add support for other hosting environments,
147 such as Linux®², similar to the model described for extensions to process new resource
148 types.

149 The OASIS SDD TC recommends that producers and consumers strive to promote interoperability as
150 SDDs and software are developed according to the SDD v1.0 specification.

¹ Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

² Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries.

151

A. Starter Profile Classes and Attributes

152

Class Name	Description
CIM_OperatingSystem	CIMv2.15 CIM_OperatingSystem
CIM_Processor	CIMv2.15 CIM_Processor
CIM_FileSystem	CIMv2.15 CIM_FileSystem
CIM_Directory	CIMv2.15 CIM_Directory
CIM_LogicalFile	CIMv2.15 CIM_LogicalFile
CIM_InstalledProduct	CIMv2.15 CIM_InstalledProduct
CIM_ApplicationSystem	CIMv2.15 CIM_ApplicationSystem
CIM_J2eeServer	CIMv2.15 CIM_J2eeServer
CIM_J2eeServlet	CIMv2.15 CIM_J2eeServlet
CIM_J2eeApplication	CIMv2.15 CIM_J2eeApplication
CIM_DatabaseSystem	CIMv2.15 CIM_DatabaseSystem
CIM_ConnectedTo	CIMv2.15 CIM_ConnectedTo
ArtifactEnumeration	Enumeration of valid artifact types in SDDv1.0

153

154 **Note:** Valid values as defined below are case insensitive.

155

CIM_OperatingSystem

Class Reference

158 Source: CIMv2.15 CIM_OperatingSystem

159 Consumes Artifacts: SDD, TargetResourceRef, ArtifactType

160 Hosts: CIM_FileSystem, CIM_InstalledProduct, CIM_Application,

161 CIM_J2eeServer, CIM_DatabaseSystem

162 Completion Actions: Restart, Logout

163 SDD Usage: Resource.type, requiredBase

164

Attributes

OSType

167 Source: CIMv2.15 CIM_OperatingSystem.OSType

168 SDD Usage: PropertyConstraint

169 Valid Values: AIX, FreeBSD, HPUX, LINUX, MACOS, OpenVMS, Solaris,

170 Windows 2000, Microsoft Windows Server 2003 , Windows

171 XP, Windows Vista, z/OS, OS/390, other

Version

173 Source: CIMv2.15 CIM_OperatingSystem.Version

174 SDD Usage: PropertyConstraint

175 Valid Values: Strings of form x.y.z where x, y, and z are numeric

176

CIM_Processor

178 **Class Reference**
 179 Source: CIMv2.15 CIM_Processor
 180 Consumes Artifacts: N/A
 181 Hosts: N/A
 182 Completion Actions: N/A
 183 SDD Usage: Resource.type
 184
 185 **Attributes**
 186 **Type**
 187 Source: CIMv2.15 CIM_Processor.Type
 188 SDD Usage: PropertyConstraint
 189 Valid Values: Pentium(R) brand, Pentium(R) II Xeon(TM), Intel(R)
 190 Itanium(R) 2, AMD Athlon(TM) Processor Family, MD
 191 Athlon(TM) 64 Processor Family, PA-RISC Family, SPARC
 192 Family, AS400 Family, Power PC Family, Alpha Family,
 193 S/390 and zSeries Family, other
 194

CIM_FileSystem

195 **Class Reference**
 196 Source: CIMv2.15 CIM_FileSystem
 197 Consumes Artifacts: N/A
 198 Hosts: CIM_Directory
 199 Completion Actions: N/A
 200 SDD Usage: Resource.type
 201
 202
 203 **Attributes**
 204 **Name**
 205 Source: CIMv2.15 CIM_FileSystem.Name
 206 SDD Usage: Name
 207 Valid Values: String
 208
 209 **Root**
 209 Source: CIMv2.15 CIM_FileSystem.Root
 210 SDD Usage: PropertyConstraint
 211 Valid Values: /usr, c:\, d:\ , other
 212
 213 **AvailableSpace**
 213 Source: CIMv2.15 CIM_FileSystem.AvailableSpace
 214 SDD Usage: ConsumptionConstraint
 215 Valid Values: Values are *numbers and units of measure. Default is total number of free*
 216 *space for filesystem in bytes.*
 217
 218 **Type**
 218 Source: CIMv2.15 CIM_FileSystem.FileSystemType
 219 SDD Usage: PropertyConstraint
 220 Valid Values: JFS, NTFS, FAT32, zFS_z/OS, zFS_Solaris, other
 221
 222 **ReadOnly**
 222 Source: CIMv2.15 CIM_FileSystem.ReadOnly
 223 SDD Usage: PropertyConstraint
 224 Valid Values: True, False
 225

CIM_Directory

226 **Class Reference**
 227 Source: CIMv2.15 CIM_Directory
 228 Consumes Artifacts: N/A
 229 Hosts: CIM_LogicalFile
 230 Completion Actions: N/A
 231 SDD Usage: Resource.type
 232

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Attributes

Name

Source: CIMv2.15 CIM_LogicalFile.Name

SDD Usage: Name

Valid Values: String

Readable

Source: CIMv2.15 CIM_LogicalFile.Readable

SDD Usage: PropertyConstraint

Valid Values: True, False

Writeable

Source: CIMv2.15 CIM_LogicalFile.Writeable

SDD Usage: PropertyConstraint

Valid Values: True, False

CIM_LogicalFile

Class Reference

Source: CIMv2.15 CIM_Directory

Consumes Artifacts: N/A

Hosts: N/A

Completion Actions: N/A

SDD Usage: Resource.type

Attributes

Name

Source: CIMv2.15 CIM_LogicalFile.Name

SDD Usage: Name

Valid Values: String

Readable

Source: CIMv2.15 CIM_LogicalFile.Readable

SDD Usage: PropertyConstraint

Valid Values: True, False

Writeable

Source: CIMv2.15 CIM_LogicalFile.Writeable

SDD Usage: PropertyConstraint

Valid Values: True, False

Executable

Source: CIMv2.15 CIM_LogicalFile.Executable

SDD Usage: PropertyConstraint

Valid Values: True, False

CIM_InstalledProduct

Class Reference

Source: CIMv2.15 CIM_InstalledProduct

Consumes Artifacts: N/A

Hosts: N/A

Completion Actions: N/A

286 SDD Usage: Resource.type
287
288 **Attributes**
289 **Name**
290 Source: CIMv2.15 CIM_Product.Name
291 SDD Usage: Name
292 Valid Values: String
293 **Vendor**
294 Source: CIMv2.15 CIM_Product.Vendor
295 SDD Usage: PropertyConstraint
296 Valid Values: String
297 **Version**
298 Source: CIMv2.15 CIM_Product.Version
299 SDD Usage: PropertyConstraint
300 Valid Values: Strings of form x.y.z where x, y, and z are numeric
301 **Directory**
302 Source: CIMv2.15 CIM_Directory.Name
303 SDD Usage: PropertyConstraint
304 Valid Values: String
305
306 **CIM_ApplicationSystem**
307 **Class Reference**
308 Source: CIMv2.15 CIM_ApplicationSystem
309 Consumes Artifacts: N/A
310 Hosts: N/A
311 Completion Actions: N/A
312 SDD Usage: Resource.type
313
314 **Attributes**
315 **Name**
316 Source: CIMv2.15 CIM_Product.Name
317 SDD Usage: Name
318 Valid Values: String
319 **Vendor**
320 Source: CIMv2.15 CIM_Product.Vendor
321 SDD Usage: PropertyConstraint
322 Valid Values: String
323 **Version**
324 Source: CIMv2.15 CIM_Product.Version
325 SDD Usage: PropertyConstraint
326 Valid Values: Strings of form x.y.z where x, y, and z are numeric
327 **Directory**
328 Source: CIMv2.15 CIM_Directory.Name
329 SDD Usage: PropertyConstraint
330 Valid Values: String
331 **State**
332 Source: CIMv2.15 CIM_ApplicationSystem.EnabledState
333 SDD Usage: PropertyConstraint
334 Valid Values: Unknown, Enabled, Disabled, Shutting down, Starting,
335 other
336
337 **CIM_J2eeServer**
338 **Class Reference**
339 Source: CIMv2.15 CIM_J2eeServer
340 Consumes Artifacts: N/A

341 Hosts: CIM_J2eeServlet, CIM_J2eeApplication
342 Completion Actions: N/A
343 SDD Usage: Resource.type
344
345 **Attributes**
346 **Type**
347 Source: SDD:CIM_J2eeServer.Type
348 SDD Usage: PropertyConstraint
349 Valid Values: JBoss, Tomcat, WebLogic, WebSphere, other
350 **Name**
351 Source: CIMv2.15 CIM_Product.Name
352 SDD Usage: Name
353 Valid Values: String
354 **Vendor**
355 Source: CIMv2.15 CIM_Product.Vendor
356 SDD Usage: PropertyConstraint
357 Valid Values: String
358 **Version**
359 Source: CIMv2.15 CIM_Product.Version
360 SDD Usage: PropertyConstraint
361 Valid Values: Strings of form x.y.z where x, y, and z are numeric
362 **Directory**
363 Source: CIMv2.15 CIM_Directory.Name
364 SDD Usage: PropertyConstraint
365 Valid Values: String
366 **State**
367 Source: CIMv2.15 CIM_ApplicationSystem.EnabledState
368 SDD Usage: PropertyConstraint
369 Valid Values: Unknown, Enabled, Disabled, Shutting down, Starting,
370 other
371
372 **CIM_J2eeServlet**
373 **Class Reference**
374 Source: CIMv2.15 CIM_J2eeServlet
375 Consumes Artifacts: N/A
376 Hosts: N/A
377 Completion Actions: N/A
378 SDD Usage: Resource.type
379
380 **Attributes**
381 **Name**
382 Source: CIMv2.15 CIM_J2eeServlet.Name
383 SDD Usage: Name
384 Valid Values: String
385 **Vendor**
386 Source: CIMv2.15 CIM_Product.Vendor
387 SDD Usage: PropertyConstraint
388 Valid Values: String
389 **Version**
390 Source: CIMv2.15 CIM_Product.Version
391 SDD Usage: PropertyConstraint
392 Valid Values: Strings of form x.y.z where x, y, and z are numeric
393 **Directory**
394 Source: CIMv2.15 CIM_Directory.Name
395 SDD Usage: PropertyConstraint

396 Valid Values: String
397
398 **CIM_J2eeApplication**
399 **Class Reference**
400 Source: CIMv2.15 CIM_J2eeApplication
401 Consumes Artifacts: N/A
402 Hosts: N/A
403 Completion Actions: N/A
404 SDD Usage: Resource.type
405
406 **Attributes**
407 **Name**
408 Source: CIMv2.15 CIM_Product.Name
409 SDD Usage: Name
410 Valid Values: String
411 **Vendor**
412 Source: CIMv2.15 CIM_Product.Vendor
413 SDD Usage: PropertyConstraint
414 Valid Values: String
415 **Version**
416 Source: CIMv2.15 CIM_Product.Version
417 SDD Usage: PropertyConstraint
418 Valid Values: Strings of form x.y.z where x, y, and z are numeric
419 **Directory**
420 Source: CIMv2.15 CIM_Directory.Name
421 SDD Usage: PropertyConstraint
422 Valid Values: String
423 **State**
424 Source: CIMv2.15 CIM_ApplicationSystem.EnabledState
425 SDD Usage: PropertyConstraint
426 Valid Values: Unknown, Enabled, Disabled, Shutting down, Starting,
427 other
428
429 **CIM_DatabaseSystem**
430 **Class Reference**
431 Source: CIMv2.15 CIM_DatabaseSystem
432 Consumes Artifacts: N/A
433 Hosts: CIM_DatabaseFile, CIM_DatabaseSegment
434 Completion Actions: N/A
435 SDD Usage: Resource.type
436
437 **Attributes**
438 **Type**
439 Source: SDD:CIM_DatabaseSystem.Type
440 SDD Usage: PropertyConstraint
441 Valid Values: DB2, DB4, DB6, Derby, MSSQL, MySQL, Oracle, Sybase,
442 Teradata, other
443 **Name**
444 Source: CIMv2.15 CIM_Product.Name
445 SDD Usage: Name
446 Valid Values: String
447 **Vendor**
448 Source: CIMv2.15 CIM_Product.Vendor
449 SDD Usage: PropertyConstraint
450 Valid Values: String

451 **Version**
452 Source: CIMv2.15 CIM_Product.Version
453 SDD Usage: PropertyConstraint
454 Valid Values: Strings of form x.y.z where x, y, and z are numeric
455 **Directory**
456 Source: CIMv2.15 CIM_Directory.Name
457 SDD Usage: PropertyConstraint
458 Valid Values: String
459 **State**
460 Source: CIMv2.15 CIM_ApplicationSystem.EnabledState
461 SDD Usage: PropertyConstraint
462 Valid Values: Unknown, Enabled, Disabled, Shutting down, Starting,
463 other
464
465 **CIM_ConnectedTo**
466 **Class Reference**
467 Source: CIMv2.15 CIM_ConnectedTo
468 Consumes Artifacts: N/A
469 Hosts: N/A
470 Completion Actions: N/A
471 SDD Usage: Resource.type
472
473 **Attributes**
474 **Protocol**
475 Source: SDD:CIM_ConnectedTo.Protocol
476 SDD Usage: PropertyConstraint
477 Valid Values: FTP, HTTPS, HTTP, JDBC, ODBC, RMI-IIOP, Telnet, other
478
479 **ArtifactTypeEnumeration**
480 SDD Usage: Artifacts
481 Valid Values: MSI, RPM, TAR, ZIP, JAR, XMT, EXE, SCRIPT, DDL, other
482

483

B. Acknowledgements

484 The following individuals have participated in the creation of this specification and are gratefully
485 acknowledged:

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