



Version Control in OIC

- OIC supports semantic versioning which is like x.y.z where x is major, y is minor and z is patch. i.e major.minor.patch which is defined [here](#).
- **Semantic Versioning has few specifications:**
 1. Software using Semantic Versioning MUST declare a Public API
 2. A normal version MUST take the form of x.y.z where x, y, z are positive integers with no leading zeros and MUST increase numerically
 3. Once a versioned package has been released, the contents of that version MUST NOT be modified. Any modifications MUST be released as a new version.
 4. Major version should be 0.y.z for initial development and changes MAY happen at any time and this SHOULD NOT be considered as stable version.
 5. Version 1.0.0 defines the release of Public API.
 6. Patch version Z ($x.y.Z \mid x > 0$) MUST be incremented if only backwards compatible bug fixes are introduced. A bug fix is defined as an internal change that fixes incorrect behavior.
 7. Minor version Y ($x.Y.z \mid x > 0$) MUST be incremented if new, backwards compatible functionality is introduced to the public API. It MUST be incremented if any public API functionality is marked as deprecated. It MAY be incremented if substantial new functionality or improvements are introduced within the private code. It MAY include patch level changes. Patch version MUST be reset to 0 when minor version is incremented.
 8. Major version X ($X.y.z \mid X > 0$) MUST be incremented if any backwards incompatible changes are introduced to the public API. It MAY also include minor and patch level changes. Patch and minor version MUST be reset to 0 when major version is incremented.

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- **Minor Changes** - Now w.r.t OIC when some modifications like changing tracking ids, adding logs are made to the Integration, then the minor version is increased. Let's say the previous version was 1.0.0 then next version would be 1.1.0.
- For an integration having same major version but two different minor versions, one version can be active at a time say 1.1.0 other one will automatically gets deactivated.
- **Major Changes** – Usually happens when there is a change in service contract or endpoint change etc. along with minor and patch related changes which might impact its' service consumers.



Name	Version	Style	Last Updated	Status
 CreateReceipt NEW	1.0.0	App Driven Orchestration	Dec 29th, 2020 12:27:34 AM IST	Configured
INTEGRATION DETAILS				
Connections All the connections being used are configured.				
				
Name CreateReceipt		Updated By 99531603-ora010		
Identifier CREATERECEIPT		Created Tue, Dec 29th, 2020 12:27:34 AM IST		
Version 01.00.0000		Created By 99531603-ora010		
Updated Tue, Dec 29th, 2020 12:27:34 AM IST		Smart Tags style:app driven orchestration,app:rest		

- To provide time to the consumers to use the new version(say 2.0) and stabilize the new one, both the major versions(1.1 and 2.0, 1.1 is previous minor version) of the service are kept activated. Later the older one 1.1) is deactivated once aforementioned objectives are achieved.

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Let's understand this with an example.

1. Two major versions are active at single point in time.




	Name	Version	Style	Last Updated	Status
	CreateReceipt NEW	1.0.0	App Driven Orchestration	Dec 29th, 2020 12:31:27 AM IST	● Active
	CreateReceipt NEW	2.0.0	App Driven Orchestration	Dec 29th, 2020 12:31:15 AM IST	● Active

2. One Minor version under the same Major version can be active at single point in time.

Before:

	Name	Version	Style	Last Updated	Status
	CreateReceipt NEW	1.1.0	App Driven Orchestration	Dec 29th, 2020 12:37:20 AM IST	● Configured
	CreateReceipt NEW	1.0.0	App Driven Orchestration	Dec 29th, 2020 12:31:27 AM IST	● Active
	CreateReceipt NEW	2.0.0	App Driven Orchestration	Dec 29th, 2020 12:31:15 AM IST	● Active

After:

	Name	Version	Style	Last Updated	Status
	CreateReceipt NEW	1.1.0	App Driven Orchestration	Dec 29th, 2020 12:38:23 AM IST	● Active
	CreateReceipt NEW	1.0.0	App Driven Orchestration	Dec 29th, 2020 12:38:19 AM IST	● Configured
	CreateReceipt NEW	2.0.0	App Driven Orchestration	Dec 29th, 2020 12:31:15 AM IST	● Active