WebDriver (java) IWebDriver (C#)		
driver = New ChromeDriver();	driver.get(String)	Not Available
- openqa.selenium.Chrome;(JAVA)	driver.close()	driver.Close()
 OpenQA.Selenium.Chrome;(C#) 	driver.quite()	driver.Quite()
driver = New FirefoxDriver();	driver.getCurrentUrl()	driver.Url { get, set }
- openqa.selenium.Firefox; (JAVA)	driver.getTitle()	driver.Title { get }
	driver.getPageSource()	driver.PageSource { get }
OpenQA.Selenium.Firefox;(C#)driver = New	driver.getWindowHandle()	driver.CurrentWindowHandle; { get
InternetExploreDriver();	driver.getWindowHandles()	driver.WindowHandles; { get }
openqa.selenium.le; (JAVA)OpenQA.Selenium.ie; (C#)	driver.findElement(By)	driver.FindElement(By)
	driver.findelements(By)	driver.Findelements(By)
	driver.manage()	driver.Manage()
	driver.navigate()	driver.Navigate()
2 / 2 / 2 / 2 / 2	driver.switchTo()	driver.SwitchTo()
KA- KA		

Navigate (Java) INavigate (c#)			
Java D A 2 D A 1	navigate.to(String)	Navigate GoToUrl(String)	
navigate = driver.navigate();	navigate.to(URL)	Navigate GoToUrl(URI)	
- openqa.selenium.WebDriver.Navigation;	navigate.back();	Navigate Back();	
C# RA* RA* RA	navigate.forward();	Navigate Forward();	
Navigate = driver.Navigate(); - OpenQA.Selenium.IWebDriver.INavigation;	navigate.refresh();	Navigate Refresh();	

DA- DA

Options (Java) IOptions (C#)			
Java manage = driver.manage();	manage.getCookieNamed(String)	manage.Cookies.GetCookieNamed(String)	
- openqa.selenium.Web	manage.getCookies()	manage.Cookies.AllCookies { get }	
Driver.Manage;	manage.addCookie(Cookie)	manage.Cookies.AddCookie(Cookie)	
C# 2 R A 2 R	manage.deleteCookie(Cookie)	manage.Cookies.DeleteCookie(Cookie)	
manage = driver.Manage();	manage.deleteAllCookies()	manage.Cookies.DeleteAllCookies()	
 OpenQA.Selenium.IWe bDriver.IManage; 	manage.deleteCookieNamed(String)	manage.Cookies.DeleteCookieNamed(String)	
	manage.timeout()	manage.TimeOut()	
	manage.window()	manage.Window { get }	
	manage.ime()	Not Available	
	manage.log()	manage.Log { get }	

TargetLocator (Java) ITagetLocator (C#)			
Java	switchTo.activeElement()	switchTo.ActiveElement()	
switchTo = driver.switchTo();	switchTo.alert()	switchTo.Alert()	
- openqa.selenium.WebDriver.SwitchTo; switchTo.frame(int) switchTo.Frame			
C#	switchTo.frame(String)	switchTo.Frame(String)	
switchTo = driver.SwitchTo();		switchTo.Frame(WebElement)	
 OpenQA.Selenium.IWebDriver.ISwitchTo; 	switchTo.window(String)	switchTo.Window(String)	
		<pre>switchTo.parentFrame()</pre>	

WebElement (Java) IWebElement (C#)		
Java	webElement.clear();	webElement.Clear();
webElement =	webElement.click();	webElement.Click();
driver.findElement(By);	webElement.sendkeys(charSeque	webElement.Sendkeys(String)
- openqa.selenium.WebElement;	nce)	F
C#	webElement.submit()	webElement.Submit()
webElement = driver.FindELement	webElement.getText()	webElement.Text { get }
(By);	webElement.getAttribute()	webElement.GetAttribute()
- OpenQA.Selenium.IWebElement;	webElement.getCssValue()	webElement.GetCssValue()
RA- RA- RA	webElement.getLocation()	webElement.Location { get }
	webElement.getTagName()	webElement.TagName { get }
RΔ ² RΔ ²	webElement.getSize()	webElement.Size() { get }
NA NA	webElement.getRect()	Not Available
RA+ RA	<pre>webElement.getScreenshotAs(Ou tputType<x>)</x></pre>	Not Available
32—32 ALWEST	webElement.isDisplayed()	webElement.Displayed { get }
RA ² RA ³	webElement.isEnabled()	webElement.Enabled { get }
VA IVA	webElement.isSelected()	webElement.Selected { get }
200	webElement.findElement(By)	webElement.FindElement(By)
RA* RA	webElement.findElements(By)	webElement.FndElements(By)
		webElement.GetProperty(String)
A ² RA ² RA ² I	RA ²	RA ² H

Timeouts (Java) ITimeouts (C#)		
Java timeouts = driver.manage().timeouts(); - openqa.selenium.WebDriver.Time outs;	timeouts.implicityWait(long, TimeUnit) timeouts.pageLoadTimeout(long, TimeUnit)	timeouts.ImplicityWait {get,set} timeouts.PageLoad {get,Set}
C# timeouts = driver.manage().timeouts();	timeouts.setScriptTimeout(long, TimeUnit)	Not Available
 OpenQA.Selenium.IWebDriver.ITi meouts; 	Not Available	timeouts.Asynchronous JavaScript

Window (Java) IWindow (C#)		
Java	window.Timeouts.fullscreen()	window.Fullscreen()
<pre>window = driver.manage().window(); - openqa.selenium.WebDriver.Window; C# window = driver.manage().window(); - OpenQA.Selenium.IWebDriver.IWindow;</pre>	window.getPosition() window.setPosition()	window.Position {get, set}
	window.getSize() window.setSize()	window.Size {get, set}
	window.maximize()	window.Maximize()
RA- RA-	Not Available	window.Minimize()

Alert (Java) | IAlert (C#)

RA² RA³

RA2 RA3

RA2 RA

Java	alert.accpet();	alert.Accpet();
alert = driver.manage().alert();	alert.dismiss();	alert.Dismiss();
- openqa.selenium.WebDriver.Alert;	alert.getText();	alert.Text; - {get}
C#	alert.sendKeys(String);	alert.SendKeys(String);
alert = driver.manage().timeouts();		alert.SetAuthenticationCredentials(String,
 OpenQA.Selenium.IWebDriver.IAlert; 	Not Available	String)
24.04		

Point (Java) IPoint (C#)		
Java point =	point.getx() point.gety()	pointX {get,set} point.Y {get,Set}
driver.findElement(By).getlocation(); - openqa.selenium.WebDriver.Point;	point.move(int, int) point.moveBy(int, int)	Not Available Not Available
<pre>c# point = driver.findElement(By).getlocation(); - OpenQA.Selenium.IWebDriver.Point;</pre>	Not Available	point.isEmpty{get} ::::

Java Actions action = new Actions(driver) action.click(webElement) action.click(WebElement) action.clickAndHold() action.clickAndHold() action.clickAndHold() action.clickAndHold() action.clickAndHold() action.clickAndHold() action.clickAndHold() action.contextClick() action.contextClick() action.contextClick() action.contextClick() action.contextClick() action.contextClick() action.doubleClick()	Action (Java) IAction (C#)		
Actions(driver) - openqa.selenium.Interacti ons.Actions; C# Actions action = new Actions(driver) - OpenQA.Selenium.Interacti ions.Actions; C OpenQA.Selenium.Interacti ions.Actions; C OpenQA.Selenium.Interacti ions.Actions; C OpenQA.Selenium.Interacti ions.Actions; Actions action = new Actions(driver) - OpenQA.Selenium.Interacti ions.Actions; Actions action = new Actions(driver) - OpenQA.Selenium.Interacti ions.Actions; Action.Selement	Java	action.click()	action.Click()
- openqa.selenium.Interacti ons.Actions; C# Actions action = new Actions(driver) - OpenQA.Selenium.Interacti ions.Actions; action.doubleClick() - OpenQA.Selenium.Interacti ions.Actions; action.doubleClick() - OpenQA.Selenium.Interacti ions.Actions; action.doubleClick() - OpenQA.Selenium.Interacti ions.Actions; action.doubleClick(WebElement) - Actions action = new Actions, action.gapAndDrop(WebElement) - OpenQA.Selenium.Interacti ions.Actions; action.doubleClick(WebElement) - Action.DragAndDrop(WebElement) - Action.KeyDown(WebElement) - Action.KeyDown(WebElement) - Action.KeyDown(WebElement) - Action.KeyDown(WebElement) - Action.MeyDown(WebElement) - Action.MoveToElement(WebElement) - Action.MoveToElement(WebElement) - Action.DoubleClick(WebElement) - Action.MoveToElement(WebElement) - Action.MoveToElement(WebElement) - Action.DoubleClick(WebElement) - Action.MoveToElement(WebElement) - Action.MoveToElement(WebElement) - Action.Perform() - Action.Perform() - Action.Perform() - Action.Perform() - Action.Release() - Action.Release() - Action.Release() - Action.Release() - Action.Sendkeys(WebElement) - Action.Send	Actions action = new	action.click(webElement)	action.Click(WebElement)
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Actions(driver) - OpenQA.Selenium.Interact ions. Actions; - OpenQA.Selenium.Interact ions. Actions; - OpenQA.Selenium.Interact ions. Actions; - Action.Actions; - Action.Action.Composed (WebElement, int,int) - Action.Action.Actions(MebElement, action.KeyDown(webElement, String) - Action.Action.MoveToElement, String) - Action.Action.MoveToElement, String) - Action.Action.MoveToElement(WebElement) - Action.Action.MoveToElement(WebElement) - Action.Action.Perform() - Action.Action.Perform() - Action.Perform() - Action.Pelease() - Action.Pelease() - Action.Release() - Action.Sendkeys(String) - Action.Sendkeys(WebElement, char Sequence) - Action.Sendkeys(WebElement, char Sequence) - Action.Action() - Acti	RA2 RA	action.doubleClick()	action.DoubleClick()
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		action.tick(interaction)	Not Available

TargetLocator / DIMENSION	
TargetLocator	driver.switchTo().frame
TargetLocator	driver.switchTo().Window
TargetLocator	driver.switchTo().activeElement
DIMENSION	driver.findElement(By).getSize

Selenium - Java / C# Version		
Above details originated from given	Selenium Java –	Selenium C# - 3.141.0
Selenium version	3.141.59	

Selenium Release Notes: (2.53 TO 3.141)

1) V2.53 - Final Release in 2.XX

- a. NoSuchSessionException Introduce This exception will occur when try to access browser after browser.quit().
- b. Fixs in Member leak
- c. Updated Expected Condition
- d. Firefox support only v46 and below.

2) V 3.0.0 - B1 | B2 | B3 | B4 | Final

- a. Java 8+
- b. RC API Separated (only available for leg-rc package)
- c. Firefox support be removed from core legacy, need to use GeckoDriver for Firefox support from **v47.0.1** or earlier
- d. Firefox profile passed to both legacy FirefoxDriver and GeckoDriver.
- e. MS -> IE Driver provide service for V9 (or) above.
- f. MS -> Support for Edge via Edge Driver
- g. Mac -> support for Safari via safari driver (as part of safari 10)
- h. SessionNotFoundExecption is removed (Deprecated) favour of NoSuchSessionException
- i. Stability fix in grid

3) V 3.0.1

- a. Include ElementScrollBehaviour enum in the release.
- b. Update in HtmlUnit (Dependency) / Grid (new session)
- c. Firefox driver clean up for fie system.

4) V 3.1.0

- a. Update Wait and fluent Wait for java 8, require to update guava-v21.0
- b. Selenium server introduce new '-version' server.
- c. WebElement.getText will return text from shadow DOM.
- d. ChromeDriver support 'new connection' interface.

5) V 3.3.0

a. Support for GeckoDriver 0.15.0

6) V 3.3.1

a. Support for GeckoDriver 0.15.0 notably, exception returned from remote end unwrapped properly.

7) V 3.4.0

- a. GeckoDriver 0.16.0 Strongly recommended.
- b. Better support for W3C endpoints.
- c. requriedCapabilities removed use desiredCapabilities instead.

8) V 3.5.0

- a. New standalone server and grid node feature for "pass through" Mode.
- b. Guava 21+ and lambda being used in expected condition.
- c. Better handling for getText() for shadow DOM.

9) V3.6.0

- a. Added Interactive interface to EventFiringDriver
- b. Now Option Class extend 'MutableCapabilities

Selenium Release Notes: (2.53 TO 3.141)

c. Add option to start firefox and chrome in headless mode.

10) V 3.7.0

- a. Minimise the disk space when starting new remote connection.
- b. Safari driver
 - i. Moving some safari config option from safariOption to the safariDriverservice.
- c. Better error message for htmlrunner.
- d. Migrated from using 'DesiredCapabilities' to either 'mutableCapabilities' or (perfectly) 'immutableCapabilities'

11) V 3.141.59 (Latest – Dec-2018)

- a. Restored Remote Host support
- b. Fix in help servlet.

Calculation:

Version 3 release mostly covered.

- The changes in geckoDriver / SafariDriver support.
- Java 8 / Guava /Shadow Dom / W3C compatibilities
- Selenium Standalone server / Grid Issue Fixes

Version Details for drivers, Test Framework, BDD Framework (As of Dec'18)

ChromeDriver Support

Chrome	Chrome
Driver	Browser
V 2.45	V70 - V72
V 2.44	V69 – V71
V 2.23	V69 – V71
V 2.42	V68 – V70
V 2.41	V67 – V69
V 2.40	V66 – V68
V 2.39	V66 – V68
V 2.38	V65 – V67
V 2.37	V64 – V66
V 2.36	V63 – V65
V 2.35	V62 – V64
V 2.34	V61 – V63
V 2.33	V60 – V62
V 2.32	V61 – V62+
V 2.31	V 58+
V 2.30	V58 – V60
V 2.29	V 57+
V 2.28	V 57+
V 2.25	V 54+
V 2.21	V 51+
V2.19	V 44+
V2.15	V 42+

FirefoxDriver Support

Gecko	Firefox	Selenium
Driver	Browser	
V 0.23.0	V 57+	3.11 or
V 0.22.0	V 57+	earlier
V 0.21.0	V 57+	A
V 0.20.1	V 55+	3.5 or
V 0.20.0	V 55+	earlier
V 0.19.1	V 55+	4 1
V 0.19.0	V 55+	
V 0.19.0	V 53+	3.4 or
V 0.17.0	V 52+	earlier
Selenium 2.	53 support – Fir	efox V46

EdgeDriver Support

Edge Driver	Edge
	Browser
V 6.17134	V 17.17134
V 5.16299	V 16.16299
V 4.15063	V 15.15063
V 3.14393	V 14.14393
V 2.10586	V 13.10586
V 1.10240	V 12.10240

IEDriver Support

IE Driver	IE Browser
V 3.6.0 +	IE 7,8,9,10,
The second second	11
Selenium not support with IE	
6	

Safari Driver Support

Safari Driver	Safari Browser
Safari driver	Safari 10+
installed by	
default when	
install safari	
Selenium V 2.48	Support- Safari
7.8	3.9

JUnit

Junit V 5 (5.3.2 −Nov'18 to 5.0 − Jul'16) V4 (4.12 − Dec 2014 to 4.0 − Feb'2006) V3 − (3.8 − May 2007 to 3.0)

TestNG

<u>TestNG</u>
V 7 (7.0 Beta – Sep 18)
V 6 (6.14.3 – Apr 2018 TO 6.0 –Mar-
2011) – <mark>6.9</mark>
V5 (5.14.10 – Feb 2010 TO 5.0 Jul-2010)
V4 (4.7 – Jul 2010 TO 4.4 – Jul 2010)

Version Details for drivers, Test Framework , BDD Framework (As of Dec'18)

C#-.Net - Visual studio Version

C#	.Net	Visual Studio
	Framework	
V 1.0	.Net 1.0/1.1	V 2002
V 2.0	.Net 2.0	V 2005
V 3.0	.Net 3.0/3.5	V 2008
V4.0	.Net 4.0	V 2010
V 5.0	.Net 4.5	V 2012 /V
-		2013
V 6.0	.Net 4.6	V 2013 /V
	KA-	2015
V 7.0	.Net Core	V 2017

Specflow – TechTalk Specflow Team

Visual Studio		Specflow
V 201	0	1.9.2
V 201	2	1.9.2
V 201	3	2.7
V 201	5	2.7
V 201	7	2.7

Nunit

Nunit	Support
V 3.11.0	.Net 2.0+ & .Net Core &
	.Net Std 1.6+ NuGet
	2.12 +
V	.Net 2.0+ & .Net Core &
3.10.0/	.Net Std 1.6+ NuGet
V 2.10.1	2.12 +
V 3.9.0	Window 8 .Net 2.0+ &
to V	.Net Core
3.0.0	
V 2.6.7	.Net 2.0+
to V	2
2.6.1	

Rest Assured

Version	Details
V3 .2	V3.2.0 - Oct 2018
V 3.1	V3.1.1 - Aug 2018
	V3.1.0 – Apr 2018
V3.0	<mark>V3.0.7</mark> – Feb 2018
	V3.0.0 – Jun 2016
V2.0	V2.9.0 – Mar 2016
	V2.0.0 – Nov 2013
V 1.0	V1.9.0 – Nov 2013
15 A	V 1.0.0 – Dec 2010
**Developed by 'com.iavway.restassured' till V2.9	

Cucumber Java (io.cucumber)

Version	Details
V4.x	V4.0.0 TO 4 .2.0 - Oct
	2018
V3.X	V3.0.1 to 3.0.2 – May
4- K	2018
V2.X	V2.4.0 – Mar 2018
10 6	V2.0.0 – Aug 2017

Migration from Junit 4 to Junit 5





^{**&#}x27; Developed by io.rest-assured' from V3

- Annotations reside in the org.junit.jupiter.api package.
- Assertions reside in org.junit.jupiter.api.Assertions
- @Before and @After no longer exist; use @BeforeEach and @AfterEach instead.
- @BeforeClass and @AfterClass no longer exist; use @BeforeAll and @AfterAll instead.
- @Ignore no longer exists: use @Disabled or one of the other built-in execution conditions instead
- @Category no longer exists; use @Tag instead.
- @RunWith no longer exists; superseded by @ExtendWith.
- @Rule and @ClassRule no longer exist; superseded by @ExtendWith and @RegisterExtension

