



Corticon Web Console



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About the Corticon Web Console

Corticon Web Console is a distinct installation option that creates a management server accessed from a browser to manage distributed application servers hosting Corticon deployments, as illustrated:



Corticon's Web Console provides a central point for administering and monitoring your Java and .NET Corticon Decision Services. Through the console you can easily deploy individual Decision Services to one or more Corticon Servers. You can also group related Decision Services into an Application to deploy and manage them as one. Once deployed, you can easily monitor the performance of the Decision Services and Corticon Servers and view both individual and aggregated metrics.

3	Corticon Web Console	Decision Services Decision Services	rvice: Cargo	English -	🛛 Help 🧧 admin 🗕
47	Decision Service	e : 🥝 Cargo v1.1			
	Tutorial Sample	₿ Ec	lit 🛍 Delete 📥 Undeploy	Test Execution	WSDL
බ	▼ General				_
ین جھ ل	Servers: Deployed: Effective: Expires: Auto Reload: Maximum Pool Size: Message Style:	 QA Group Oct 17, 2016 4:24:24 PM Yes Auto-detect 	Execution Count: Failure Count: Average Time: Rule Count: Last Execution Time: Message Style: Version Label:	334 0 3.76 milliseconds 4 Oct 18, 2016 11:52 Auto-detect My label for this versi	2:20 AM ion of this Decision Service
	 ▼ Decision Service Sta 500 450 400 350 300 250 200 150 100 50 0 11:44 	tistics Decision Ser 11:45 11:46 11:47 Average Time Max.	vice Response and Execution	Live Data Hour 12	hours 1 day 7 days xecutions: 69 70 ailures: 0 60 rrage Time: 16 40 00 x. Time: 1 30 20 10 0 0 11:53

The following image illustrates a Web Console view of a Decision Service with a graph of the responses and executions over a span of a several minutes:

Actions on Decision Services associated with a Server Group are automatically applied to each server member of the group that is running. For example, if you have a Decision Service managed by an Application which is deployed to a Server Group and add another server to the group, the Decision Service will be automatically deployed to the new server. This helps you scale up or scale down the servers in a deployment to meet demand.

The Web Console is a web application that can be installed in the same application server as the Corticon Server for single-server environments or installed separately for multiple-server environments. The choice is yours, depending on the nature of your Corticon deployment. The Web Console maintains configuration information and historical metrics in a local data store. The historical metrics let you see changes in the performance of your Decision Services and Corticon Servers over time.

Corticon's Windows **Start** menu provides shortcut to **Start Corticon Server**. When the Web Console is installed standalone, this starts just the Web Console. When the Web Console is installed together with the Corticon Server, this shortcut starts both of them. Then, the **Corticon Web Console** shortcut launches your default browser to connect to the local Web Console.

This guide describes user activities in the Web Console interface, followed by an administrator's section that touches on architectural features and management functions.

User Guide

A server administrator uses a web browser to connect to a running Web Console Server. You will see how the Web Console interface works, how you manage Corticon Servers in a distributed architecture, and how you manage and monitor the Decision Services that run on those servers.

Note: If you are getting started with the Corticon Web Console - Requires access to a running network-accessible Corticon Server 6.3 that has the Web Console component. See the *Corticon Installation Guide* for installation information.

Note: If you upgraded the Corticon Server - An updated Corticon Server with the Web Console component will likely have left residual display and link data in its cache. Clear the browser cache to ensure that the Web Console starts cleanly.

To connect to a running Web Console Server:

• On any device, in a supported browser, enter the hostname where Web Console is running followed by the port value (typically 8850) and then /corticon. For example:

http://localhost:8850/corticon

 When you are on the machine that hosts the Web Console installation, simply choose Start > Progress > Corticon 6.3 Web Console

Logging in to the Web Console

Enter your user credentials in the Web Console login page. When you start using the Web Console, the one pre-defined user is the administrative user, admin, with the default password admin. If you are the administrator, you should change the default password soon after you log in. Only the admin user can add new users. All users have rights to deploy and manage Decision Services. If your role is as a user, obtain your user credentials from your Web Console administrator.

What Do You Want To Do?

When you log in for the first time, you see a welcome page that acquaints you with the Web Console's functions. You also can access **What's New** in Corticon.



Click any action button on the welcome page, the title bar, or the function pane to close the welcome page and open the chosen page.

You can re-open the welcome page by clicking in the upper left corner of the page:



Navigation

The general navigation elements of Web Console pages are:

- Title bar:
 - The navigation path to the current page in the Web Console.
 - **English**: The default language is shown. Choose your preferred available language from its drop-down list to view text in that language as well as localized formatting of dates and numbers.
 - Help:
 - Help Contents: Opens a new tab linked to the Web Console help for this release.
 - About: Version information about the connected Web Console Server.
 - Community: Opens a new tab linked to the Progress Corticon community site.
 - admin (the User Name that enabled log in)
 - Profile: Lets the user change their password, full name, and email address.

- Logout: Closes the session and logs the user off the Web Console Server.
- Function bar on the left provides access to the functional areas described on the page:



Note: Automatic logout - A user gets logged out of their Web Console session when they are inactive for a period of time specified by the Web Console administrator. A warning message is issued several seconds before the Web Console logs out with the opportunity to click **OK** to reset the inactive timeout period.

For details, see the following topics:

- Components in a Corticon deployment
- Server groups and Servers
- Decision Services and Applications
- Batch Configurations
- How to view the Activity Log

Components in a Corticon deployment

The components that you work with in the Web Console are:

- Decision Services The Corticon Decision Services added to the Web Console. A Decision Service is a set of Corticon rules and supporting assets packaged for deployment.
- Applications Collections of one or more Decision Services to be managed as set. For example, a set of
 Decision Services in support of a business process that you want to deploy or monitor as a whole.
- Servers Individual instances of Corticon Java or .NET Servers that have been registered with the Web Console. Once registered, the servers are available for deployment of Decision Services.
- Server Groups Groups of one more Servers. Server Groups are useful when you want to deploy Decision Services to a set of Servers. For example, a set of Servers behind a load balancer, or in a regional location.
- Users Defined users who can use the Web Console to administer a Corticon deployment.
- Activity Logs Record of user actions in the Web Console and other asynchronous events such as a server going offline.

Sorting and filtering components In the pages that list Servers, Decision Services, and Users, you can readily adjust the column sizes and display as well as sort and filter which lines qualify for display by clicking on a column header, as illustrated: Expires $\text{CDD} \sim$ Decision Service Name A Version Server \checkmark Iocalhos AllocateTrade Sort Ascending Candidates localhos Sort Descending Cargo localhos ProcessOrder localhos III Columns Show items with value that: Filter Starts with Ca Filter Clear

Server groups and Servers

The Web Console allows you to manage and monitor Corticon Servers. The servers can be managed individually or in groups. Server Groups are useful when you want to deploy Decision Services to a set of Corticon Servers. A common use case is a set of Corticon Servers running behind a load balancer where each Server needs to have the same set of Decision Services deployed. Additionally, you can view aggregate metrics for the performance of the servers in a group.

Servers that automatically register with the Web Console

In an elastic deployment environment, new server instances might not be recognized by the Web Console. These new server instances must be added manually to a Server Group in the Web Console. Server instances might spin up and down based on load. When a new server instance can register itself during startup with the Web Console, the Web Console can automatically report the server's metrics.

See "Server registration with Web Console" in the Corticon Server Guide for details on the procedures and configuration.

Also see the various configuration patterns in the following video:

Add Server groups and Servers

As Corticon Servers are the deployment platform that runs Corticon Decision Services, your Web Console requires that you have one or more Corticon Servers under management so that can you deploy Decision Services and Applications. You can create **Server Groups** to enable common distribution of Decision Services to all servers in the group, and immediate provisioning of new servers added to the group.

Note: When you first start the Web Console in a new installation, no servers are under management unless you installed both Corticon Server for Java and Corticon Web Console. In that case, the Corticon Server is, by default, brought under management in the Web Console as the server localhost.

To add servers and server groups:

- 1. Connect to the Web Console server where you want to add servers and server groups.
- 2. Click the Servers button:
- 3. Click + Add Server: + Add Server
- 4. In the Add Server dialog box, choose whether to add a single server or a server group:

Add Server ×
Corticon Servers can be managed individually or collectively as a Server Group. Add a single Corticon Server Create a Server Group and add Corticon Servers to it
OK Cancel

- 5. Click OK.
- 6. There a few ways to add servers. The following entries are common Server information to each of them:
 - Protocol: Default is HTTP. You can choose HTTPS, if this server has enabled it.
 - Hostname: Enter the DNS-resolvable name or static IP address (avoid localhost and 127.0.0.1)
 - Port: 8850 is the default HTTP port, 8851 for HTTPS, 80 typically on IIS
 - Context URL: The default is axis
 - Server Requires Authentication: When authentication has been enabled on a server, choose this option, and then supply the user name and password for the Web Console to use to establish a connection to the server.

Note: In addition, the default context URL, **axis**, can be replaced with a preferred context URL, such as **CorticonProduction**. This functionality -- renaming a default axis.war file to a preferred .war name -- enables multiple server deployments to use the same host port and supporting resources.

Adding a single Corticon Server

If you choose Add a single Corticon Server, the following dialog box opens:

Add Server	
Add to a Server Group	
Name	
Developer Integration Tests	
Description	
The Java Server where develope deployments for testing.	ers add their latest project
Server http •	
DIT.dev.com	8850 axis
Server Requires Authenticatio	on .
Save Cancel	

Enter the name you want to describe this server, and a description. Then enter then the server information. Click **Save** when your entries are complete.

Adding a Corticon Server to a new Server Group

If you choose Create a Server Group and add Servers to it, the following dialog box opens:

ame			
User /	Acceptance Testing		
escri	otion		
solut	ion's stakeholders will evaluate	e its curren	t functionality.
solut Servei	ion's stakeholders will evaluate	e its curren	t functionality.
solut Server	ion's stakeholders will evaluate 's IP Address	e its curren	t functionality. + Add Context URL

Enter the group name and a description, then click + Add to open the following dialog box:

Add a single Corticon Server	×
http •	
UAT.ourCompany.com	
8850	
axis	
Server Requires Authentication	
Add Can	cel

Enter then the server information. Click **Add** when your entries are complete.

If you want to add more servers at this time, click **+ Add** and follow the steps. When your new server group is complete, click **Save**.

Adding a Corticon Server to an existing group

When you choose **Add a single Corticon Server**, the **Add Server** dialog box provides a way to add the server to an existing group:

Add Server	
Add to a Server Group	
Select Server Group -	
Server	
http 🔻	
IP Address	8850 axis
Server Requires Authentica	tion
Save Cancel	

Click **Select Server Group** to choose a group, and then enter the server information. When your new server and its group assignment are complete, click **Save**.

Note: Adding a server -- individually or within a group -- as localhost might seem practical during evaluation and testing, but when you access Web Console from a remote machine that has a server installation that you want to add, you might find that references to localhost are distracting as it is not *this* localhost. It is a good practice to always use DNS-resolvable hostnames or static IP addresses.

Edit Server groups and Servers

After adding a Server group or a server, you can change its configuration.

To edit a Server Group:

Select Edit on the server group's Details page to open its edit dialog box:

Name						Log Level
My Five						INFO 🔻
Description						Log Filters Accept
					h	
Server	rs			+ Ad	đ	Monitoring
	ID Address	Dent	Context	Log	h da a ita aire a	License File Choose File
	ID Addrocc	Port	URL	Level	Monitoring	
	IF Address					
	nbbedgsaintma5	8850	axis	INFO	Enabled	

- 1. Edit the name and description as appropriate
- 2. Click + Add to add more servers.
- 3. Select a server to access its edit and delete functions. Edit lets you change the server information. Delete removes the server from the group and the Web Console. You are asked to decide whether to undeploy any Decision Services before deletion, and then confirm the deletion action:

Remove Server
Are you sure you would like to remove the Servers?
Undeploy Applications
Delete Cancel

Note that deleting a server from the Web Console does not stop or delete the actual running server instance; it just removes the registration of the server with the Web Console. The server continues to run and could be added back to the Web Console.

4. You can change other server properties that will apply to all servers in the group as illustrated on the right side of the dialog box: Log Level, Log Filters Accept, Monitoring, and License File.

To edit a Server:

Select Edit on the server's Details page to open its edit dialog box:

3	Corticon Web Console Se	ervers	Server: local ser	er	English -	🕑 Help	admin 🗸
4	Edit Server						
۲۵ ۲۳ ۲۳	Name local server Description The default local server			Log Level INFO T Log Filters Accept DIAGNOSTIC X SYSTEM	×		
	Server http v	0050		Monitoring			
	Iocalhost Server Requires Authen Save Cancel	tication	axis	License File Choose File			

Edit:

- Name
- Description
- · Server hostname/IP address, port, and context URL
- Log level The log level on the selected server. The default level is INFO. When you change the level and save the edits, it is immediately applied to that server without stopping and restarting the server. The logs promptly reflect the changed level of detail.

Log Level	
INFO	•
OFF	
ERROR	
WARN	
INFO	
DEBUG	
TRACE	
ALL	

- **Monitoring** Determines whether the statistics from this server are gathered by the Web Console and stored for later analysis.
- License File Copies the selected CcLicense.jar (or its preferred name) from the machine where the browser is connected to the Web Console (or a network-accessible location) to the CcServerSandbox on the machine hosting this server.

Explore Server features

When you click the **Servers** button: in the left panel, the servers and server groups are listed. In this example, there is one Server Group and one Server:

đ	Corticon Web Con	sole	Servers						ish v	🛛 Help	adm	in v
ጘ	Servers									+	Add Serv	/er
										_		_
	Servers											
ମ୍	Manage and monitor Servers where Decision Services are deployed.											
ዖዮ የ	Name	~	Туре ~	Description	~	Status 🗸 🗸	Executions	~	Average T	lime (ms)		~
_	local server		Server	The default local server		S	0		0.00			
Q	QA Group		Server Group	Test servers		S	334		3.76			
	4)	ÞI							1 - 2 0	of 2 items	

Clicking on a server or server group **Name** selects it, and then opens its **Details** page to display the deployment and operational information about it.

1	Corticon Web Console Servers Server: localhos	st:8850			English +	🛛 Help	admin -
) III J	Server Details: Solocal server localhost:8850/axis v5.6.0.0 The default local server	☑ Edit	Delete	≡ View Log	لَّ Downlo	ad Logs	< Back
וריא	▼ Execution Metrics						
r C	Execution Count: Failure Count: Average Time: Server Statistics Properties	0 0 0 milliseconds					=
	▶ License						

For the selected Server, you can choose Edit, Delete, View Log, or Download Logs.

Server Execution Metrics

Execution metrics provide counts and performance data of all Decision Services running on the selected server, or aggregated across a server group.

Execution Metrics	
Execution Count:	334
Failure Count:	0
Average Time:	3.76 milliseconds

Server Statistics

You can look at metrics and statistics at several levels from for all Decision Services running on server or aggregated for all Decision Services and Servers in a server group. The following view shows the categories of information for a server group:



Properties

A Server's Properties lists important settings and platform environment data of the server, from its point-of-view:

Properties

Maintenance Service Enabled	Yes
Maintenance Service Interval	30000
Monitoring Service Enabled	Yes
Maximum Memory	1003 N
Total Memory	503 M
Free Memory	273 M
Number Of Cores	8

s 000 s 03 MB 3 MB 3 MB Java Version Java Vendor Operating System Operating System Version Architecture Autoload Directory Sandbox Directory 1.8.0_131 Oracle Corporation Windows 10 10.0 amd64 C:/_60x/work_dir/Server/cdd C:/_60x/work_dir/Server/SER/CcServerSandbox

Properties are specific to a Corticon Server on the machine where it is installed and running. They are accessed for an individual server, or a member of a server group.

License

License information shows the location of the Corticon license that a specific server is using, as well as essential information about that license:

License

License Path Licensed To License Deactivation Date License Database Access C:/_60x/work_dir/Server/pas/server/webapps/axis/WEB-INF/lib/CcLicense.jar!/CcLicense.lic Evaluation Jun 1, 2019 Yes

The license file that enabled the server to run is typically updated only when a new license has been provided that changes the expiration and enabled features for that server.

View log

Servers lets you access the tail of the current CcServer.log file that the server is using:

ີ່ຈັ	Corticon Web Console	Servers	Server Group: QA Group	Server: NBBE	DGSAIN Log
4				, 	English - 🛛 Help 📃 admin -
	Log NBBEDGS	AINTMA1:	8850/axis		≮ Back
କ୍ରେ	Timestamp	Level	Logger	Marker	Message
ር ። የዋት	Oct 18, 2016 2:48:30 PM	INFO	Сс	DIAGNOSTIC	id=1476816510115,sthp=510.625,shp=263.099990844 72656,sex=0,stq=0,sec=278,sfc=6,saex=3.539568345 323741,sawt=0.5071942446043165
ها	Oct 18, 2016 2:48:30 PM	INFO	Cc	DIAGNOSTIC	id=1476816510115,ds=ProcessOrder.1.10,ec=0,aex=0 .0,awt=0.0,fc=0
U¥	Oct 18, 2016 2:48:30 PM	INFO	Cc	DIAGNOSTIC	id=1476816510115,ds=Candidates.1.14,ec=0,aex=0.0, awt=0.0,fc=0
	Oct 18, 2016 2:48:30 PM	INFO	Cc	DIAGNOSTIC	id=1476816510115,ds=AllocateTrade.1.14,ec=0,aex=0 .0,awt=0.0,fc=0
	Oct 18, 2016 2:48:30 PM	INFO	Cc	DIAGNOSTIC	id=1476816510115,ds=Cargo.1.1,ec=278,aex=3.5395 68345323741,awt=0.5071942446043165,fc=6
	Oct 18, 2016 2:48:30 PM	INFO	Cc	DIAGNOSTIC	id=1476816510115,ds=Cargo.0.16,ec=0,aex=0.0,awt= 0.0,fc=0
	Oct 18, 2016 2:48:00 PM	INFO	Cc	DIAGNOSTIC	id=1476816480099,sthp=510.6875,shp=317.77515411 376953,sex=0,stq=0,sec=278,sfc=6,saex=3.53956834 5323741,sawt=0.5071942446043165
	Oct 18, 2016 2:48:00 PM	INFO	Cc	DIAGNOSTIC	id=1476816480099,ds=ProcessOrder.1.10,ec=0,aex=0 .0,awt=0.0,fc=0
	Oct 18, 2016 2:48:00 PM	INFO	Cc	DIAGNOSTIC	id=1476816480099,ds=Candidates.1.14,ec=0,aex=0.0, awt=0.0,fc=0
	Oct 18, 2016 2:48:00 PM	INFO	Cc	DIAGNOSTIC	id=1476816480099,ds=AllocateTrade.1.14,ec=0,aex=0 .0,awt=0.0,fc=0
	Oct 18, 2016 2:48:00 PM	INFO	Cc	DIAGNOSTIC	id=1476816480099,ds=Cargo.1.1,ec=278,aex=3.5395

Download log

Corticon Web Console enables you to download and view Server log files. This is especially useful when you need to locally examine a remote Server's log files to identify the source of a problem. To download a Server's log files, click **Download Logs** in the Server page. This opens a dialog box where you can choose to download **All** log files or only the **Most Recent**. If you choose **All**, all log files that have been retained since installation will be downloaded. If you choose **Most Recent**, you will get all log files that have been modified by the Server in the last 24 hours. Select the appropriate option and click **Download**. This downloads a ZIP file named CcServerLog.zip that contains the Server log files.

đ	Cortic	on Web Console	Servers	Server Gro	up: QA Group	Server: N	IBBEDGSAIN		I	English +	🕑 Helj		admin -
Ŷ	Se	rver Details	: 🛛 NBBI	EDGSAIN	ITMA1:88	50/axis v	5.6.0.0				load Logo		Paak
بر کی	▼ Exe Exect Failur Avera	ecution Metrics ution Count: re Count: age Time:		ſ	Download Log All O M Download	g s lost Recent Cancel		La Foit		L Down	noad Logs		Jack
Q	▼ Se	rver Statistics		b	Serv	ver Respons	e and Executi	on	Live Data	Hour	12 hours	1 day	7 days
	1 SW												count
	0	14:40	14:41	14:42	14:43 Average Time 🔳 M	14:44 lax. Time Mi	14:45 n. Time = # Exect	14:46 utions = # Fa	14:47 illures	14:48	1	4:49	- 0

To know more about troubleshooting a problem by examining Server logs, see *Troubleshooting Corticon Server in the Server Guide.*

Decision Services and Applications

Types of Decision Services

Many Decision Services might be deployed on a Corticon Server. There are two types of Decision Services from the point of view of the Web Console, based on how they were deployed:

- Managed Decision Services are those deployed through the Web Console. For managed Decision Services
 the Web Console has the EDS file, and can perform more management activities such as deploying it to
 additional Corticon Servers. Managed Decision Services can be:
 - Added directly through the Web Console's Add Decision Service feature.
 - Added directly from Corticon Studio using the Studio's Package and Deploy feature. Studio prompts
 for the Application where the Decision Service will be added, and the Server or Server Group where it
 will be deployed.
- Discovered Decision Services are those deployed not through the Web Console but through another means. The management operations the Web Console can perform on discovered Decision Services is limited so as not to conflict with how they were deployed. Discovered Decision Services could be:
 - Decision Services packaged and deployed directly from Corticon Studio or any of the deployment tools.
 - These are Decision Services deployed through Corticon Deployment Descriptors (CDDs) -- text-based files that specify a Decision Service to be deployed and its deployment properties. CDD files are automatically loaded by the Corticon Server.

In most deployments, you will likely use either managed or unmanaged Decision Services. The approach you take for deployment and management depends on your needs.

How Decision Service types are displayed

When you deploy Corticon rules through CDD files, your unmanaged Decision Services are *discovered*, as shown:

Discovered Decision Services Decision Services not deployed u	Discovered Decision Services Decision Services not deployed using the Web Console, can be viewed here but not fully managed.												
Decision Service Name	~ Version	~ CDD~	Server	~ Executions	 Average Time (ms) 								
AllocateTrade	1.14	~	localhost:8850/axis	0	0.00								
AllocateTrade	1.14	~	NBBEDGSAINTMA5:8850/axis	0	0.00								
AllocateTrade	1.14	~	NBBEDGSAINTMA1:8850/axis	0	0.00								
Candidates	1.14	~	NBBEDGSAINTMA5:8850/axis	0	0.00								
Candidates	1.14	~	localhost:8850/axis	0	0.00								
Candidates	1.14	~	NBBEDGSAINTMA1:8850/axis	0	0.00								
🖉 Cargo	0.16	~	NBBEDGSAINTMA1:8850/axis	0	0.00								
🖉 Cargo	0.16	~	NBBEDGSAINTMA5:8850/axis	0	0.00								
🖉 Cargo	0.16	~	localhost:8850/axis	0	0.00								
ProcessOrder	1.10	~	NBBEDGSAINTMA5:8850/axis	0	0.00								
⊲ ⊲ 1 2 ▶ ▶					1 - 10 of 12 items								

When you deploy Decision Services through the Web Console, they are shown as *managed*:

Managed Decision Services										
Decision Services deployed using the Web Console, can be fully managed here.										
Decision Service Name 🔺 🛛 🗸	Version ~	Servers ~	Executions ~	Average Time (ms) \sim						
Cargo	1.1	🔮 QA Group	0	0.00						
H4 4 1 > H				1 - 1 of 1 items						

When you use applications to group your Decision Services, each *managed* Application lists its Decision Services:

•	Managed Decision Services					
	Decision Services deployed using the	Web Console, can be full	y managed here.			
	Application Name	~ Servers	~ Execu	tions	~	Average Time (ms) 🗸
4	Insurance	local server	0			0.00
	Decision Service Name A	~ Version	~ Exect	itions	~	Average Time (ms) 🗸
	Generate Policy	0.41		0		0.00
	Price Policy	0.41		0		0.00
M	∢ 1 ▶ ⊮					1 - 1 of 1 items

Opening the Decision Services and Applications page

- 1. Connect to the Web Console server where you manage Decision Services.
- 2. Click the Decision Services button:

he Decision Services	page shows all	the types of Decision	Services on the ma	anaged servers,	as illustrated:
		21		ý v	

1	Cor	ticon Web Console Decision Services	i									English -	😯 Help	admin 🗸			
4	D	ecision Services											+ Add D	ecision Service			
ŝ	•	Managed Decision Services Decision Services deployed using the We	b Console	e, can b	e fully manage	ed he	re.										
ዖ ዮዮ		Application Name	Servers						~	Executions			~ Average	Time (ms) 🛛 🗸			
_	4	Insurance	🕑 local	local server 0								0.00					
0		Decision Service Name *	Version	ersion				~	Exec	utions	~	Average Time (ms) ~					
		Generate Policy	0.41	11					0				0.00				
		Price Policy	0.41						0				0.00				
	H 4 1 > H											1 - 1 of 1 items					
ſ	Dec	ision Service Name 🔺	Versio	n		~	Servers			~	Executions		~ Average	Time (ms) 🗸 🗸			
	0	Cargo	1.1			🔮 QA Group		0				0.00					
	M	4 1 F H											1 -	1 of 1 items			
	•	Discovered Decision Services Decision Services not deployed using the	Web Cor	sole, ca	an be viewed I	here t	out not fully	mana	ged.								
	Dec	ision Service Name 🔺	Versio	n ~	Effective	~	Expires	~ (CDD ~	Server	~	Executions ~	Average Tir	me (ms)			
	0	AllocateTrade	1.14						~	localhost:88	350/axis	0	0.00				
	0	AllocateTrade	1.14						~		AINTMA5:8850/axis	0	0.00				
	0	AllocateTrade	1.14						~		AINTMA1:8850/axis	0	0.00				

How to use Applications

An Application is a group of Decision Services that you can deploy to a Server or Server Group. When you deploy an Application to a Server Group, all Decision Services in the Application are deployed to each of the Corticon Servers in the Server Group. Further, if a new server is added to the Server Group, the Web Console automatically deploys the Application to it. An Application is therefore, a unit of deployment. It enables you to manage a set of related Decision Services more easily.

In order to add a Decision Service to an Application, you need to have a Decision Service file (.eds) that was packaged from a Ruleflow. There are several toolsets that perform this task, as discussed in the section *"How to package and deploy Decision Services" in the Deployment Guide*.

A feature of Corticon Studio, as described in "Deploy to Corticon Web Console" in the Deployment Guide, enables you to select Ruleflows in a project to deploy as Decision Services that are sent to a new or existing Application assigned to a server or server group managed in a Web Console. As a result, the Decision Services are immediately deployed (or redeployed) to the server or all active servers in the Server Group.

Add or Edit a Decision Service

The following procedures show to bring a Decision Service under management either as an independent Decision Service, or as a member of an Application.

Note: As the general steps are common to both adding and editing a Decision Service, this topic focuses on the tasks when adding a Decision Service, and then shows how to access a Decision Service to edit it.

To add a Decision Service:

- 1. Connect to the Web Console server where you want to add Decision Services.
- 2. Click the Decision Services button:



- 3. Click + Add Decision Service: + Add Decision Service
- 4. The Add a new Decision Service dialog box opens:



5. You can choose to create an Application for the Decision Service you are adding:

Add a new Decision Service	×
 Decision Services can be managed individually or collectively within an Application. Add a single Decision Service Create a new Application and add Decision Services to it 	
ОК Салсе	el

a. If you choose that option and click OK, the New Application dialog opens:

)escrip Insura	nce ption ance Sample	Rest	rict Info Rule Messages rict Warning Rule Messages rict Violation Rule Messages		
Se	QA G Decisi	; roup + on Services			+ Add	
		Name	File Name	Database Access Mode		
		GeneratePolicy	GeneratePolicy.eds	None		
		PricePolicy	PricePolicy.eds	None		

- **b.** Enter a Name and Description.
- c. Choose the server or server group where the Application's Decision Services are to be deployed.
- d. Set options that will apply to all Decision Services in the Application.
- e. Click + Add for each Decision Service you want to add to the Application.
- 6. On either path, the Add Decision Service dialog box opens at the Decision Service tab:

Add Decision Se	rvice			×
Decision Service	Database	Advanced	Monitored Attributes	
When adding a Decis the EDS file of the De Service to an existing	ion Service you cision Service. Application sel	must specify a Other propertie lect " Add to an	name, select a server and pro s are optional. To add the De Existing Application "	vide cision
Name				
Decision Service Nan	ne			
Description				
EDS File Cheere File				
EDS File Choose File.				
Servers				
Select Servers -				
Add to an Existin	g Application			
		Sa	ve Save & Deploy Ca	ancel

- **a.** Enter a name. Note that this will be its name when deployed, not the name of the EDS file you choose.
- **b.** Add a description.
- c. Click Choose file to locate an EDS file.
- d. Choose a server or server group
- **e.** If you started this process as a single Decision Service, you can choose to add it to an existing application from the list that will be offered.
- 7. Click the Database tab to access its options:

Add Decision Se	rvice			×
Decision Service	Database	Advanced	Monitored Attribute	25
If this Decision Service Configuration file with	e connects to a n connection p	a database you i arameters.	must provide a Datasc	ource
Datasource Configur	ation File Ch	noose File		
If this Decision Service EDC Access Mode of F	e uses Cortico Read Only or R	n EDC to connec ead/Update.	t to a database you m	ust select a
EDC Access Mode None O Read Or	nly⊖ Read/Uj	pdate		
		Sa	ve Save & Deploy	Cancel

- **a.** Datasource Configuration File: Specify the XML file that contains the data source access properties. To learn how to generate this file from Corticon Studio, see the topic: "Export the Datasource Configuration file" in the Data Integration Guide.
- **b.** You can change the **EDC Access Mode** option to either **Read Only** or **Read/Update** to extend the dialog tab to display additional configuration settings:

Add Decision Se	vice			×
Decision Service	Database	Advanced	Monitored Attribute	S
If this Decision Service Configuration file with	connects to a connection p	a database you arameters.	must provide a Dataso	urce
Datasource Configura	ation File Ch	noose File		
If this Decision Service EDC Access Mode of R	e uses Cortico lead Only or R	n EDC to conne lead/Update.	ct to a database you mi	ust select a
EDC Access Mode O None Read On	ly 〇 Read/U	pdate		
EDC Entities Returned	d Mode			
● All Entities ○ Inco	oming and Ne	w Entities		
EDC Caching				
		Sa	ave Save & Deploy	Cancel

- c. In the EDC Access Mode, choose the appropriate access option. This setting controls how a Decision Service will access connected databases. Select Read Only or Read/Update to then expose additional settings that you need to configure:
 - EDC Entities Returned Mode: Choosing All Entities returns all records from the database when the Decision Service executes. Choosing **Incoming and New Entities** returns entities that were in the request message and only those entity records that are added or modified in the database when the Decision Service executes. Select the appropriate option.
 - **EDC Caching**: Database caching enables Corticon to store often-used data in a cache. This improves the performance of the Decision Service since it can read and write data in the cache faster than if this data was in the database. If you choose **Enabled**, database caching will be enabled for the Decision Service. To learn more about database caching, see the topic: *"How to work with database caches" in the Data Integration Guide*.

Important: Turning caching on or off - If you want to enable or disable caching on a deployed Decision Service, the mechanisms of caching require that you undeploy and delete the Decision Service, and then add and deploy the Decision Service again with the cache enablement setting you want.

8. Click the **Advanced** tab to access its options:



Consult the Server Guide for more information about these settings.

- a. In the Maximum Pool Size field, specify how many execution threads for this Decision Service will be added to the execution queue. If you leave this field blank, the Web Console will set a default value of 1.
- **b.** In the **XML message style** section, choose whether request messages for this Decision Service should contain a **Flat** or **Hierarchical** payload structure. **Auto Detect** accepts either style.
- 9. Click the Monitored Attributes tab to access its options:

Add Decision Se	rvice			×
Decision Service	Database	Advanced	Monitored Attributes	
Optionally select one insight into it's proces	or more attrib sing.	utes from a De	cision Service to monitor	to gain
Attribute		Ana	lysis Buckets	Add
		Sa	ve Save & Deploy	Cancel

See how to set up use Monitored Attributes in the topic Monitored Attributes on page 37

10. Click **Save** to store the Decision Service but not deploy it. Click **Save & Deploy** to store the Decision Service and also deploy it. Click **Cancel** to close without making changes.

Undeploy a Decision Service on a Server

You can undeploy Decision Services by selecting the Decision Service and clicking **Undeploy**. Performing this operation on a managed Decision Service takes you to the Application details page, which has options to remove individual Decision Services or undeploy the Application altogether.

Note: In the Web Console, you cannot undeploy a Decision Service that was deployed using a CDD file.



Decision Service General Information

General metrics are a simple table of the count of all request executions of a Decision Service on the selected server, the count of failures, and the average execution time. The average time is average execution time for execution of all the Decision Services on this server.

The Version Label is the text that was added to the Ruleflow that generated the versioned Decision Service.

5	Corticon Web Console Technology Preview	Decision Services	Decision Service: Carg			English -	🛛 Help	admin -
4	Decision Service : < Carg	o 2019 v1.6	☑ Edit	🛓 Undeploy	Test Execution	<>> WSDL	â Delete	< Back
	▼ General							
জ্রি ক্ষ	Servers: Ser	cal server 0, 2019 2:49:01 PM	Exe Failu Ave Rule	cution Count: ire Count: rage Time: e Count:	0 0 0 milliseconds 4	6		
0	Version Label: My Ia Auto Reload: Yes Maximum Pool Size: 1 Message Style: Auto-	bel for this version of this l	Decision Service. Last	Execution Time:	Not Yet Exect	uted		

Note: These metrics are reset when a server restarts.

Decision Service Details

Click on a Decision Service to display its operational and performance data.

If the Decision Service is deployed to a Server Group, the operational and performance data is an aggregate of that Decision Service from all servers in the server group.

The actions available let you Edit, Delete, Undeploy, Test Execution, and display WSDL.



	· · · · · · · · · · · · · · · · · · ·		5	0	1 37			
<u>J</u>	Corticon Web Console De	ecision Services Decision	Service: Freig			English +	🛛 Help 🔛	admin +
q	Decision Service :	Freight1 v1.1	🕑 Edit	🛱 Delete	🕹 Undeploy	Test Execution	<>> WSDL	K Back
	General							
<u>کی</u> الح	Servers: Deployed: Effective: Expires: Auto Reload:	My Five Nov 1, 2016 6:55:29 PM Yes		Execution Failure Cou Average Ti Rule Count Last Execu Message S	Count: unt: me: t: tion Time: tyle:	0 0 milliseconds 4 Not Yet Executed		
Q	Maximum Pool Size:	1		message s	cyrci	Allo detett		
	Decision Service Statisti	ics						
	Monitored Attributes							
	▼ File							
	Local File: EDS File Timestamp:		Cargo56.eds Oct 31, 2016	1:56:42 PM				
	▼ Database							
	Database Access Mode: Database Access Properties File:	None		Database B Mode: Database 0 Use Execut Service:	Entities Returned Caching: tion Recording	ALL No No		
	Rule Messages Restrict	ions						
	Restrict Info Rule Messages: Restrict Violation Rule Mess Restrict Warning Rule Messa	ages: ages:	System Defau System Defau System Defau	ult ult ult				
	History							
	Created On: Created By:		Oct 31, 2016 admin	9:56:41 PM				

You can collapse and expand sections of the page to manage the display, as illustrated:

Application Details

The general metrics shown for an application are a rollup of the metrics of the Decision Services in the Application. For example, the average execution time shown on an application is the average execution time of all it Decision Services.

Test Execution

The **Test Execution** option lets you test your Decision Service by making a REST or SOAP request to it. When you select the Test Execution, you choose a server where the Decision Service is deployed, whether to make a REST or SOAP request, and then locate a JSON or XML file for the payload of the request.

Note: While the Decision Service name is essential for Corticon requests, this panel ignores the decisionServiceName parameter in the request as it is focused on the current Decision Service.

To execute a test against a selected deployment of the current Decision Service :

- 1. Click Server to select a server that has the Decision Service deployed.
- 2. In the Choose Request File area, click Choose File, then locate and open an XML or JSON request appropriate for the Decision Service. The Request area shows the request text.
- 3. Choose its Request Type.
- 4. Click Execute.

The request executes, and then adds the **Response** text, as shown:

5	Corticon Web Console Decision Services A	pplication: Cargo	Test Execution: Cargo		🛛 Help	admin v
4	Test Execute: Cargo				Execute	< Back
ی بی ا	Server NBBEDGSAINTMA1:8850/axis▼ Choose Request File Choose File Sample.xml					
	Request Type REST/JSON SOAP/XML Request <pre></pre>	1ttp://www.w3.org/2001 >	/XMLSchema-instance"			
	Response <pre> </pre> <pre> </pre>	esponse xmlns="um:C	Corticon" decisionServiceName="Cargo"	2		

Simplified JSON in requests

Some users find that their JSON requests have metadata only at the root, expecting that the decision service can infer the metadata for subordinate levels. That tactic is now supported, although the output provides the metadata at all levels. The following example shows the coupons Ruletest in the advanced tutorial. It executes as expected with either request, and produces identical responses (both with metadata).

How to: Use Simplified JSON in requests

- 1. Copy the request you want to simplify to an editor.
- 2. Add the decision service name as name at the top.
- 3. Delete (or leave out) the metadata for related entities.
- 4. Retain the metadata for the primary entity.

For example:



Note

- In the example, Name at the bottom is an attribute of the root entity.
- · Mind your commas, braces, and brackets when you are paring down a known-good request.

WSDL

The **WSDL** option displays the current Decision Service's WSDL, and also provides a link to WSDL data in an editor:

5	Corticon	Web Console	Decision Services	Decision Service:	Cargo		English -	😮 Help		
4	Dec	¥ WSDL ×							DL	< Back
	Tutoria xml version="1.0" encoding="UTF-8"? <definitions targetnamespace="urn:Corticon" xmlns="http://schemas.xmlsoap.org/wsdl/"> <types></types></definitions>									
ଳେ	▼ Gen	<xsd:schem <xsd:elem <xsd:elem< th=""><th>na xmlns:xsd="http://ww nent name="CorticonRed nent name="CorticonRed</th><th>w.w3.org/2001/XMLS quest" type="tns:Corti sponse" type="tns:Cor</th><th>chema" target iconRequest"// rticonRespons</th><th>Namespace="urn:Corticon" ele e"/></th><th>ementFormDefault="qualifie</th><th>ed"</th><th></th><th></th></xsd:elem<></xsd:elem </xsd:schem 	na xmlns:xsd="http://ww nent name="CorticonRed nent name="CorticonRed	w.w3.org/2001/XMLS quest" type="tns:Corti sponse" type="tns:Cor	chema" target iconRequest"// rticonRespons	Namespace="urn:Corticon" ele e"/>	ementFormDefault="qualifie	ed"		
<i>የ</i> ዓየ	Deploy	<xsd.comp <xsd:seq <xsd:ele< th=""><th>plex type name="Cortico juence> ement name="Execution ement name="WorkDoc</th><th>nRequest"> Properties" maxOccu uments" type="tos:\Wr</th><th>urs="1" type="</th><th>ins:ExecutionProperties" minOo</th><th>ccurs="0"/></th><th>ш</th><th></th><th></th></xsd:ele<></xsd:seq </xsd.comp 	plex type name="Cortico juence> ement name="Execution ement name="WorkDoc	nRequest"> Properties" maxOccu uments" type="tos:\Wr	urs="1" type="	ins:ExecutionProperties" minOo	ccurs="0"/>	ш		
Q	Effecti Expire	<xsd:attri <xsd:attri< th=""><th>quence> ibute name="decisionSe ibute name="decisionSe</th><th>erviceName" use="rec erviceTargetVersion" u</th><th>quired" type="></th><th><pre>vsd:string" fixed="Cargo.eds"/> type="xsd:nonNegativeInteger</pre></th><th>"/></th><th>11</th><th></th><th></th></xsd:attri<></xsd:attri 	quence> ibute name="decisionSe ibute name="decisionSe	erviceName" use="rec erviceTargetVersion" u	quired" type=">	<pre>vsd:string" fixed="Cargo.eds"/> type="xsd:nonNegativeInteger</pre>	"/>	11		
	Maxim	<xsd:attri <xsd:comp< th=""><th>ibute name="decisionSe iplexType> plexType name="Cortico</th><th>erviceEffectiveTimesta onResponse"></th><th>amp" use="opt</th><th>iónal" type="xsd:dăte⊤ime"/>́</th><th></th><th></th><th></th><th></th></xsd:comp<></xsd:attri 	ibute name="decisionSe iplexType> plexType name="Cortico	erviceEffectiveTimesta onResponse">	amp" use="opt	iónal" type="xsd:dăte⊤ime"/>́				
	▼ Dec	<xsd:seq <xsd:ele <xsd:ele <xsd:ele< th=""><th>querice> ement name="Executior ement name="WorkDoc ement name="Message</th><th>Properties" maxOccu uments" type="tns:Wo s" type="tns:Message</th><th>urs="1" type=" orkDocuments es"/></th><th>ins:ExecutionProperties" minOo "/></th><th>ccurs="0"/></th><th></th><th></th><th></th></xsd:ele<></xsd:ele </xsd:ele </xsd:seq 	querice> ement name="Executior ement name="WorkDoc ement name="Message	Properties" maxOccu uments" type="tns:Wo s" type="tns:Message	urs="1" type=" orkDocuments es"/>	ins:ExecutionProperties" minOo "/>	ccurs="0"/>			
		<xsd:attri <xsd:attri< th=""><th>quence> ibute name="decisionSe ibute name="decisionSe</th><th>erviceName" use="rec erviceTargetVersion" u</th><th>quired" type="» use="optional"</th><th>ksd:string" fixed="Cargo.eds"/> type="xsd:nonNegativeInteger</th><th>"/></th><th></th><th>day</th><th>7 days</th></xsd:attri<></xsd:attri 	quence> ibute name="decisionSe ibute name="decisionSe	erviceName" use="rec erviceTargetVersion" u	quired" type="» use="optional"	ksd:string" fixed="Cargo.eds"/> type="xsd:nonNegativeInteger	"/>		day	7 days
	18	<xsd:attri <xsd:comp< th=""><th>ibute name="decisionSe iplexType> plexType name="Execu wence></th><th>erviceEffectiveTimesta ionProperties"></th><th>amp" use="opt</th><th>ional" type="xsd:dateTime"/></th><th></th><th></th><th>— 1</th><th>00</th></xsd:comp<></xsd:attri 	ibute name="decisionSe iplexType> plexType name="Execu wence>	erviceEffectiveTimesta ionProperties">	amp" use="opt	ional" type="xsd:dateTime"/>			— 1	00
	16 14 12	<xsd:seq <th>ement name="Execution quence> pplexType></th><th>Property" maxOccurs</th><th>s="unbounded</th><th>" type="tns:ExecutionProperty"</th><th>minOccurs="0"/></th><th></th><th>8</th><th>0 0</th></xsd:seq 	ement name="Execution quence> pplexType>	Property" maxOccurs	s="unbounded	" type="tns:ExecutionProperty"	minOccurs="0"/>		8	0 0
	S 10 E 8	<xsd:comp <xsd:seq <xsd:attri< td=""><th>plexType name="Execu uence/> ibute name="execution!</th><td>ionProperty"> PropertyName" use="I Property/alue" use="r</td><td>required" type</td><td>="xsd:string"/></td><th></th><td></td><td>6 5 4</td><td>count</td></xsd:attri<></xsd:seq </xsd:comp 	plexType name="Execu uence/> ibute name="execution!	ionProperty"> PropertyName" use="I Property/alue" use="r	required" type	="xsd:string"/>			6 5 4	count
	4	<th>iplexType></th> <th></th> <th>equired type-</th> <th>- Asulsuing /></th> <th></th> <th></th> <th>2</th> <th>0</th>	iplexType>		equired type-	- Asulsuing />			2	0
	0	Cargo v1.1 W http://NBBEDG	/SDL URL: GSAINTMA5:8850/axis/	lswsdl/Cargo/1/1				Close	0	
				Average nine a wi	ax. Time 🖬 Will.					
	▼ File									
	Local File: Cargo.eds									
	EDSTI	e ninestamp.		0	2016 4.	24.24 111				
	▼ Data	base								
	Databa	se Access Mode	e: None			Database Entities Returned Mode:	ALL			
	File:	se Access Prop	erues			Database Caching:	No			
						Service:	140			

Monitored Attributes

The Web Console lets you monitor the value distribution of one or more attributes in a deployed Decision Service. By choosing attributes to monitor, you can view the statistical breakdown of attribute values over the course of many Decision Service executions.

For example, the Ruleflow created in the Tutorial: Basic Rule Modeling in Corticon Studio Basic Rule Modeling tutorial reads integer values for Cargo.volume and Cargo.weight in the request, and assigns a text value to the attribute Cargo.container. To monitor these attributes, select the name in the Monitored Attribute dialog, enter comma-separated values or value ranges in the Analysis Buckets entry area, and then click Add.

When you set *bucket* ranges of values, you can analyze categories of data. Bucketing is useful when a wide range of numeric or date data is possible. For this example, the three buckets for Cargo.volume are 1 to 30 kilos, 31 to 99 kilos, and greater than 99.

Entering no values can be useful for string values, especially when there is a small set of values defined in a Custom Data Type (such as Cargo.container in this example), or there is small set of known values, such as risk ratings high, medium, low.

	The monitored	attributes in	this exam	ple are l	listed as	shown:
--	---------------	---------------	-----------	-----------	-----------	--------

Edit Decision Ser	vice	×
Decision Service	Database Advanced	Monitored Attributes
Optionally select one insight into it's proce Select or Search Attr	e or more attributes from a De essing.	ecision Service to monitor to gain ysis Bucket Add
Attribute	Analysis Bucket	Actions
Cargo.container		Remove
Cargo.volume	130,3199,>99	Remove
Cargo.weight	13,49,1029,3089,>8	89 Remove
		Save

Click Save to enable your selections.

In this example, the integer values are examined across narrower ranges than the rules, perhaps as a study to see whether new container categories should be considered. The results of attribute monitoring are visualized as follows:



Batch Configurations

Corticon Web Console lets you connect to remote Web Console servers that in turn connect to managed Corticon Servers where deployed Decision Services are defined that integrate with data sources. When these Decision Services use defined SQL batch queries linked through the Datasource, you can define batch configurations and run batch jobs.

As a result, you can ensure that high-volume rules-based processing occurs on a specified schedule.

Add Batch Configurations

To add batch configurations:

1. Connect to the Web Console server where you maintain batch configurations.

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2. Click the Batch configurations button:



+ New Batch Configuration

4. The New Batch Configuration dialog box opens:

New Batch Config	uration		3
Basic Properties	Advanced Proper	ties Schedule	
Name			
Batch Configuration	lame		
Description			
Decision Service		DataSource	
Decision Service	2	DataSource Select DataSource	
Decision Service Select Decision Service Query	2	DataSource Select DataSource	*
Decision Service Select Decision Service Query Select Query	2 *	DataSource Select DataSource	
Decision Service Select Decision Servic Query Select Query	e •	DataSource Select DataSource	
Decision Service Select Decision Servic Query Select Query	e •	DataSource Select DataSource	*
Decision Service Select Decision Servic Query Select Query	e *	DataSource Select DataSource	ve Cancel

where:

- Name Unique text that you want to use to refer to this configuration
- Description Optional supporting text for the configuration

- Decision Service List of managed, deployed Decision Services that have at least one component that has batch queries in its connected database.
- Datasource The name of the Datasource connection that the Decision Service uses, as assigned in the Vocabulary.

For example, in an export configuration file named myConfig.xml where the first few lines are...

... the **Datasource** value is Patient Data.

- Query The name of the batch query stored in one of the Decision Service's connected databases
- 5. Click to access the Advanced Properties tab:

New Batch Config	guration			×
Basic Properties	Advanced Properties	Schedule		
Number of ID's per F 1000 Entities per Payload 1 Number of Processin 4	etch ng Threads			
Log Path c:\myBatchLogFolder				
			Save	Cancel

where:

- Number of ID's per Fetch Number of Ids that will be retrieved by each Datasource Fetch. Default value is 1000.
- Entities per Payload Number of entities that will be added to each payload sent to the Corticon Server execute method. Default value is 1.
- **Number of Processing Threads** The number of execution threads the Corticon Server will spawn when executing the batch. The Default value is the number of cores on the Corticon Server's machine.
- Log Path The folder that will store the logs produced for this batch configuration on the server that runs the batch process. Default location is [CORTICON_WORK_DIR]\logs\.

The log file name is set as DecisionServiceName(Version)_Threads_Timestamp.log. For example, PatientUpdate(1.2)_4_1515014748084.log

- Logging enabled checkbox To the right of the Log Path entry, the checkbox lets you decide whether to do logging for this batch configuration.
- 6. Click to access the Schedule tab:

New Batch Config	New Batch Configuration							
Basic Properties	Advanced Properties	Schedule						
Enabled								
Choose Frequency	T							
minute								
hour			Save	Cancel				
day			Save	Cancer				
week			_					
month								
year								

where:

- Enabled Chooses to repeat the batch process with the frequency you specify.
- Choose Frequency:
 - minute Once every minute.
 - hour At specified minute past every hour.
 - **day** At the specified time of every day.
 - week At specified week day at the specified time of that day.
 - month At specified day every month at the specified time of that day.
 - year At specified day and month every year at the specified time of that day.

Note: On most of the frequency options, you can use Control+click to choose multiple values, as illustrated:

Basic Properties	Advanced Properties	Schedule	
Enabled	and 45 minutes past the hour		
Every hour •	at minutes past the hour		
	05 10 15		

7. Click Save.

Edit Batch Configurations

To maintain batch configurations:

1. Connect to the Web Console server where you maintain batch configurations.

জ্জ

2. Click the **Batch configurations** button: batch configurations, as illustrated:

Batch Configurations ລົ Help ᡩ **Batch Configurations** How Batch Configuration Batch Configurations Batch Configurations created using the Web Console, can be fully managed here. Batch Configuration 🔺 🗸 Decision Service 🗸 Start Time 🗸 Time to Completion (mins) 🗸 Finish Time 🗸 Processed Count 🗸 Server Scheduled --> 200 Ø Ø O DoMorePatientBatches C PatientUpdate 1.2 localhost:8850/axis O DoPatientBatches PatientActivities 1.1 localhost:8850/axis 4 Image: H.

The Batch Configuration page opens and displays the current

3. Click the Batch Configuration name you want to edit, as illustrated:



4. On the Details page, click Edit, as shown:

Batch Configuration: DoMorePatientBatches	► Execute	🕜 Edit	🛱 Delete	K Back
---	-----------	--------	----------	--------

- 5. The Edit Batch Configuration dialog box opens.
- 6. Follow the steps for the dialog box as described in Add Batch Configurations on page 39
- 7. Click Save.

Run Batch Configurations

To run a batch configuration:

- 1. Connect to the Web Console server where you maintain batch configurations.
- 2. Click the **Batch Configurations** button: The Batch Configuration page opens and displays the current batch configurations:
- 3. Click the Batch Configuration name you want to edit, as illustrated:



4. On the Details page, click Execute, as shown:

Execute	𝗭 Edit	â Delete	K Back				
Note: When execution is running, you can terminate it by clicking Stop , as shown:							
Stop	🕑 Edit 🛛 🕯	🗊 Delete	< Back				

The job statistics show the time and counts of the most current run, as shown:

Statistics

Start Time:	Jan 3, 2018 1:12:22 PM	Processed Count:	4
Finish Time:	Jan 3, 2018 1:12:23 PM	Retrieved Count:	4
Running Time:	0 mins		
Time to Completion:	0 mins		

The logs are produced on the server that ran the deployed Decision Service at the location you specified or the default location [CORTICON_WORK_DIR]\logs. The filename for each run is DecisionServiceName(Version)_Threads_Timestamp.log

Note: For an example of batch runs, see "Getting Started with Batch" in the Data Integration Guide.

For more about batch processing in Corticon, see:

• "Getting Started with Batch" in the Data Integration Guide.

How to view the Activity Log

Corticon Web Console maintains a log of its activities. The log includes:

- User actions such as deploying or undeploying Decision Services and creating or modifying Applications and Servers.
- · System events such as deployment failures and lost connections to Servers.

To view the activity log:

- 1. Connect to the Web Console server where you want to view the Activity Log.
- 2. Click the Activity Log button:

The Activity Log page opens and displays the log in a three-column table:

б

ີຈັ	Corticon Web Console Activity Log		English - 19 Help 🕒 admin -
ſ	Activity Log		Configuration
	User All - Component All -	Action All - Stat	tus All → Fitter Page Size 10 →
<u>କ</u> ୍	From 9/19/16	т	To 10/19/16
<i>ት</i> ዋቶ	Time	User Name	Message
Q	Oct 18, 2016 2:20:48 PM		Connection to "NBBEDGSAINTMA5:8850/axis" established
	Oct 18, 2016 2:20:48 PM		Connection to "NBBEDGSAINTMA1:8850/axis" established
	Oct 18, 2016 2:20:47 PM		Connection to "localhost:8850/axis" established
	Oct 18, 2016 2:05:06 PM	admin	Application "hbbedmcicel2" successfully removed
	Oct 18, 2016 2:04:37 PM	admin	Server "nbbedmcicel2" successfully removed
	Oct 18, 2016 2:04:36 PM	admin	Decision Service "nbbedmcicel2" successfully undeployed from "nbbedmcicel2:8850/axis"
	Oct 18, 2016 2:04:32 PM	admin	Server "nbbedmcicel2_2" successfully removed
	Oct 18, 2016 2:04:21 PM		Connection to "nbbedmcicel2:8087/axis" failed
	Oct 18, 2016 2:04:09 PM	admin	Server nbbedmcicel2_2 successfully added
	Oct 18, 2016 2:04:09 PM	admin	Connection to "hbbedmcicel2:8087/axis" failed
	First Previous 21 22 2	23 24 25 26	27 28 29 30 Next Last
	Page: 29 / 41		

Some log messages, such as those relating to failed deployment of Decision Services, have additional information about the problem that is not displayed in the table. To view this information, hover over a *Failed* log message, and then click on the information button ¹ at the end of that line. An alert opens with additional information on the issue.

You can filter the table to view a subset of the log messages. To do this, select the filters you want from the drop-down lists, and then click **Filter**. For example, to view all failed Decision Services deployments by a user, select the username from the **User** drop-down, select **Decision Service** in **Component**, select **Deploy** in **Action** and finally, select **Failed** in the **Status** drop-down. You can also add a date range to the filter to narrow the information to only log messages recorded between specified dates.

1	Corticon Web Console Activity Log			English +	🤨 Help 🧧 admin 🗕
q	Activity Log				Configuration
	User All - Component All - A	Action All - Stat	us Failed -	Filter	Page Size 10 -
ଞ୍ଚ	From 9/19/16	т	All 🗰		
<i>ት</i> ዋዮ	Time	User Name	N Failed		
Ø	Oct 18, 2016 5:12:48 PM		Connection to "NBBEDGSAINTMA5:8850/axis" failed		
	Oct 18, 2016 5:09:33 PM		Connection to "NBBEDGSAINTMA1:8850/axis" failed		
	Oct 18, 2016 2:04:21 PM		• Connection to "nbbedmcicel2:8087/axis" failed		
	Oct 18, 2016 2:04:09 PM	admin	• Connection to "nbbedmcicel2:8087/axis" failed		
	Oct 18, 2016 2:04:06 PM	admin	• Execute of Decision Service "Cargo" on "NBBEDGSAINTMA1:	8850/axis" Failed	I
	Oct 18, 2016 2:04:06 PM	admin	• Execute of Decision Service "Cargo" on "NBBEDGSAINTMA1:	3850/axis" Failed	I
	Oct 18, 2016 2:04:06 PM	admin	• Execute of Decision Service "Cargo" on "NBBEDGSAINTMA1:	3850/axis" Failed	I.
	Oct 18, 2016 2:04:06 PM	admin	Execute of Decision Service "Cargo" on "NBBEDGSAINTMA1:	8850/axis" Failed	I
	Oct 18, 2016 2:04:06 PM	admin	Execute of Decision Service "Cargo" on "NBBEDGSAINTMA5:8	3850/axis" Failed	1
	Oct 18, 2016 2:04:06 PM	admin	• Execute of Decision Service "Cargo" on "NBBEDGSAINTMA1:8	3850/axis" Failed	I
	First Previous 1 2 Next L	Last			
	Page: 1 / 2				

The Web Console maintains this log for a configurable period of time. This setting is visible only to Web Console Administrators. To know more about configuring the Activity Log, see the topic Configure the Activity Log on page 51.

Administrator Guide

Architecture Overview - The Web Console is a separate web application (corticon.war) from the Corticon Server (axis.war), deployable to either the same or separate application server as the Corticon Server.

When managing a group of Corticon Servers the recommended practice is to deploy the Web Console to a separate application server as depicted in this diagram:



Key aspects of this diagram:

- There is a single application server hosting the Web Console and three application servers hosting Corticon Servers. The Web Console is agnostic to the application server hosting a Corticon Server, this includes a mix of Java and Corticon Server for .NETs.
- REST/JSON is used for communication between the browser and the Web Console and between the Web Console and the Corticon Server.
- The Web Console stores all configurations locally. This includes definition of server groups, applications, and Decision Services (including the EDS file).
- The Web Console stores historical metrics locally. A retention policy will be supported for determining how long to keep historical metrics.

Installation

The Corticon Java and Corticon Server for .NET installers are in one installer, together with the new Web Console. See the *Corticon Installation Guide* for more information. See the Progress Software web page Corticon Supported Platforms Matrix to review the currently supported browsers, platforms and application servers.

For details, see the following topics:

- User management
- Configure the Activity Log
- Configure auto logout
- Reset the administrator password

User management

The Web Console provides secure access. The administrator (User Name admin) is a preset user that cannot be deleted. You can change the administrator's password -- that's a task you should do as soon as you get started with the Web Console and take the administrator's role.

The administrator is the only user that can access user management to create, edit, and delete other users. Note that the case matters in the user name and password.

To display users:

- 1. Connect to the Web Console server as admin where you want to manage users.
- 2. Click the Users button: The Users page opens:

3	Corticon Web C	Console Users		English - 🛛 🛛 Help	admin -
47	Users			+ New User 🔅 Confi	iguration
	▼ Users				
ମ୍ଟ୍ର	Manage us	er access to the Cortic	on Web Console.		
ዖ ዋጓ	Name ~	Full Name	Email Address	LDAP/AD User	~
	admin	Web Console Adminis	strator	8	
Ø	⊌ ◄]	▼ ► ►		1 - 1 of 1	items

To create new users, click + New User, and then enter the user information and click Save:

1	Corticon Web Console	Users	Profile	English -	Help	admin 🕶
Ŷ	New User					
ی چ س	User Name ahamilton Password Full Name					
ľ	Email Address ahamilton@history.gov Save Cancel					

ticon Web Consol	Users		English - 😯	Help 🧧 admin 🗸
sers			+ New User	Configuration
Users Manage user acc	ess to the Corticon Web Console.			
ie v	Full Name ~	Email Address	~ LDAP/AD	User ~
in	Web Console Administrator		8	
milton	Alexander Hamilton	ahamilton@history.gov	8	
▲ 1 ▼	▶ ▶			1 - 2 of 2 items
	SERS Jsers Janage user accord in nilton	SERS Jsers Janage user access to the Corticon Web Console. e Full Name Keb Console Administrator nilton Alexander Hamilton I Full Alexander Hamilton Alexan	Sers Jsers Janage user access to the Corticon Web Console.	SerS + New User Jsers Manage user access to the Corticon Web Console. e Full Name Full Name LDAP/AD in Web Console Administrator Alexander Hamilton Alexande

How to use LDAP for Web Console authentication

You can also set up LDAP authentication, if business needs require your users to be authenticated through an LDAP server. After LDAP authentication is set up, LDAP users who log in to the Web Console are added to the **Users** page. LDAP users are differentiated from other users by the **LDAP/AD** annotation. Note that while LDAP users can be deleted from the **Users** page, their details cannot be modified in the Web Console.

To configure LDAP authentication, edit the file CorticonServerConsoleConfig.groovy located in [CORTICON_WORK_DIR]\etc.

Uncomment all property lines in this file and enter values for the first four properties. Here is an example:

```
/*Configure the manager distinguished name based on your ldap configuration*/
grails.plugin.springsecurity.ldap.context.managerDn = 'uid=admin,ou=system'
/*Ldap password*/
grails.plugin.springsecurity.ldap.context.managerPassword = 'secret'
/*Ldap server url */
grails.plugin.springsecurity.ldap.context.server = 'ldap://localhost:10389'
/*Ldap search base*/
grails.plugin.springsecurity.ldap.search.base = 'o=mojo,ou=groups'
```

To map Web Console Admin and User roles to LDAP user groups, specify the user group names in the 1dap{}section at the bottom as shown. Use commas to define multiple user groups for each role.

corticon {
ldap {
admin = "Admin.DBAdmin"
users = "User.Ánalyst.Developer"
authenticateUsersWithGroups = "false" //This flag is used to
authenticate the Admin and User groups listed above. If the flag is
false, and the group is not listed above, the user will be defaulted
to user role.
1
۲ ^۲

After setting these properties, save the file and restart Corticon Server. LDAP users can log then in to Web Console using their LDAP user credentials. Once an LDAP user logs in, they are added to the **USERS** page in Web Console.

Note: Setting up LDAP authentication adds LDAP users to the Web Console user base. You can add other users in the **USERS** page and have them access Web Console using their Web Console user credentials.

Configure the Activity Log

Corticon Web Console maintains a log of its activities. The log includes:

- User actions such as deploying or undeploying Decision Services and creating or modifying Applications and Servers.
- · System events such as deployment failures and lost connections to Servers.

A Web Console Administrator can view the Activity Log as well as configure the duration for which Corticon Web Console maintains log records. To view the Activity Log, click **ACTIVITY LOG** on the left pane. To configure the duration for which Web Console keeps log records, click **Configuration** on the Activity Log page and set the number of days for which Web Console maintains log records.

Activity Log Configuration × Retain Activity Log records for 30 days			

To know more about viewing and filtering the Activity Log, see the topic How to view the Activity Log on page 45.

Note: The Web Console Activity Log is different from a Server log, which logs user actions, system events, and other information for a specific instance of Corticon Server based on configurable log levels.

Configure auto logout

As part of user management, you can define a period of inactivity (in minutes) after which a user is automatically logged out of the Web Console. To configure this setting, click **Configuration** on the **Users** page. In the **User Configuration** dialog box, enter the duration of inactivity, as shown below:



Reset the administrator password

If the login password of the Web Console administrative user (admin) is lost, Corticon provides a way to reset the password to the default (also admin).

To reset the administrator's password:

- 1. Stop the Corticon Server that is running the Web Console.
- 2. Select Start > Progress > Corticon 6.x Command Prompt.
- 3. Enter set JAVA_OPTS=-DCORTICON_RESET_ADMIN_PASSWORD=true.
- 4. Enter Server\tomcat\bin\startup.bat.

Corticon Server starts and resets the administrator's password.

After completing these steps, you can connect the Web Console and log in with the default administrator credentials, user admin, password admin. It is good idea to immediately replace the default password with your preferred administrator password.

This procedure applies to the application server that is installed by Corticon Server, Apache Tomcat. You can perform similar steps for other supported application servers and platforms. Consult your application server documentation for how to pass the JVM system property CORTICON_RESET_ADMIN_PASSWORD to the server.

Note: Do not set this property in startup scripts as it will reset the password on each startup. This should be only done only when the password needs to be reset. Subsequent launches of Corticon Server and the Web Console should use the normal startup procedures.