

Panel display at the 18th Northeast Asia OSS Promotion Forum in Seoul

Date : November 21, 2019

Venue : Stanford Hotel Seoul, NURITKUM Square Business Tower



Exastro

IT Automation



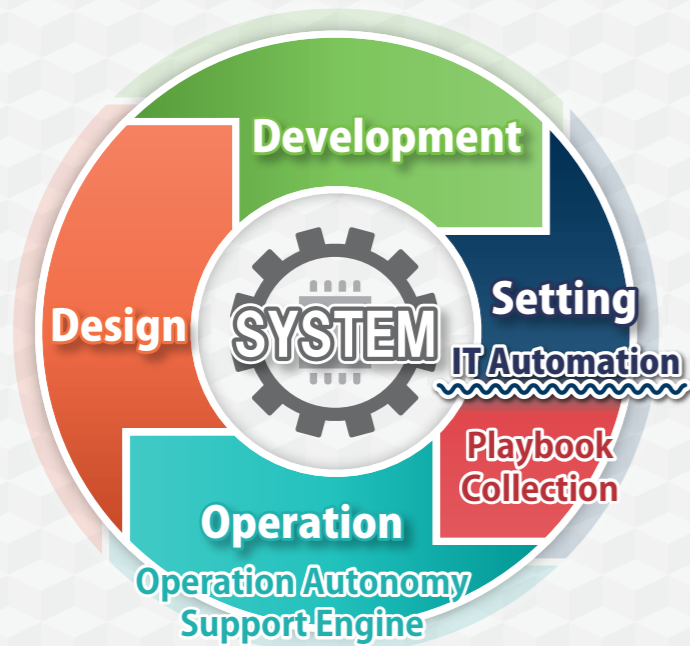
Search

Exastro

<https://exastro-suite.github.io/docs/>



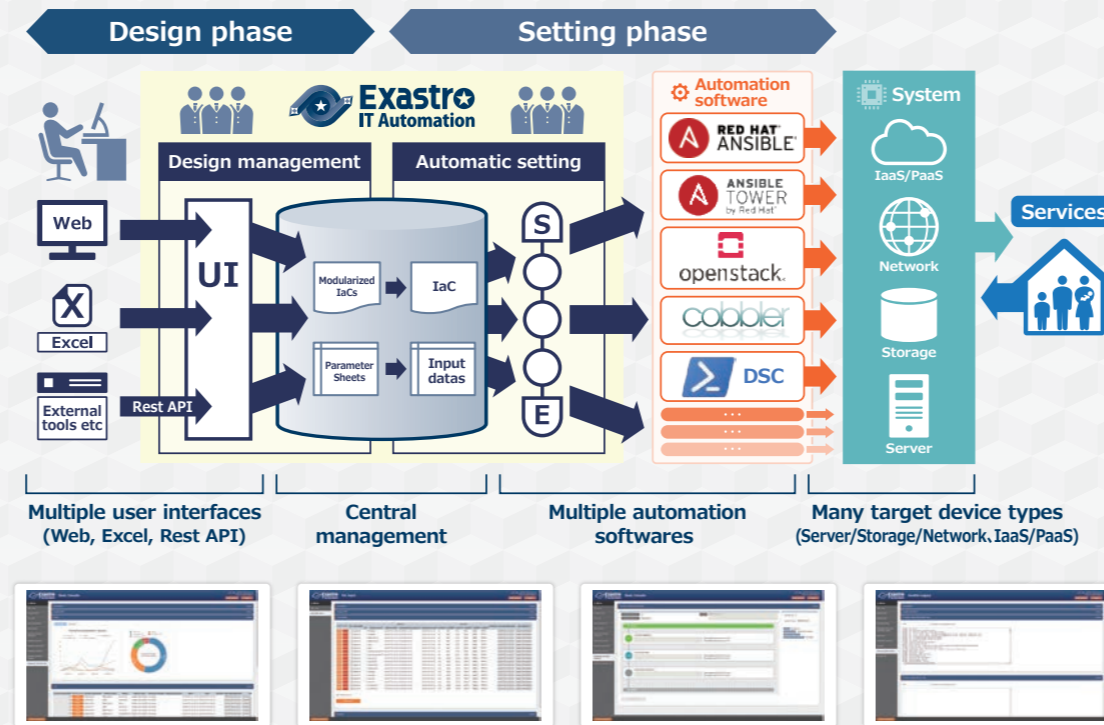
What is Exastro ?



Exastro is an open source software suite for digitizing, automating and labor saving the system life cycle. (design, development, setting and operation)

What is Exastro IT Automation ?

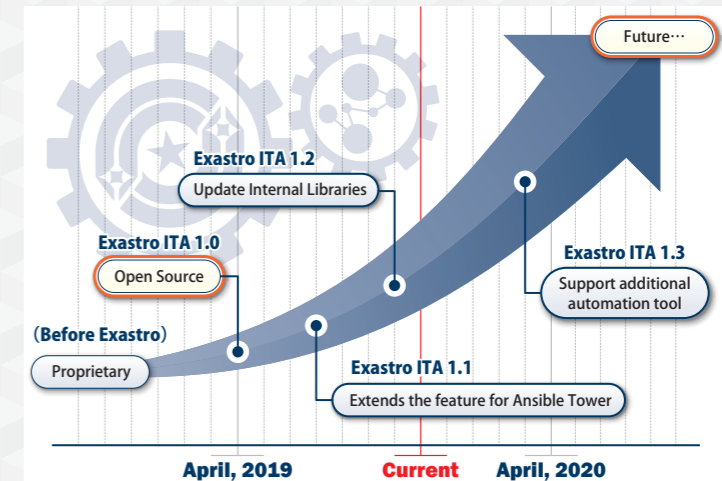
Exastro IT Automation is an Open Source Framework for digitizing and centrally managing the system configuration.



"7 Features" of Exastro IT Automation

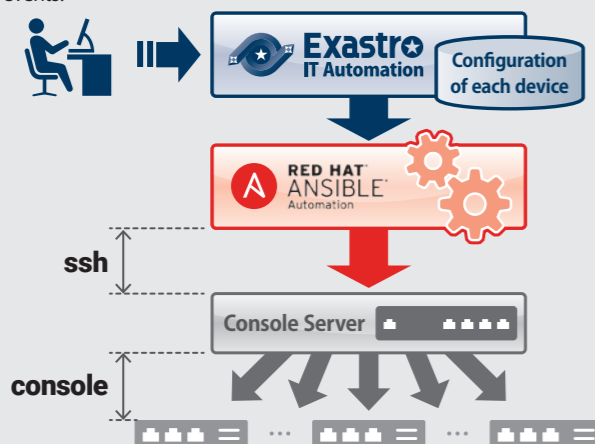
- 1 Multiple user interfaces & Role Base Access Control
- 2 Function to manage parameters' change history
- 3 Function to prevent typos of variable names
- 4 Function to improve the reusability of the IaC
- 5 Function to control multiple automation tools (incl. Ansible)
- 6 The last way to continue automation: pioneer mode
- 7 Real-time monitoring of execution status

Roadmap



Case 01

Exastro IT Automation has made it possible to efficiently configure tens of thousands of network devices via the console server for which even management-IP address is not set to use in a big event such as national events.



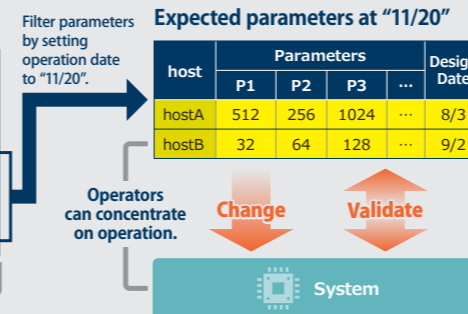
Case 02

Exastro IT Automation has automated all the operations of a large-scale carrier system i.e. from "system construction phase" to "operation phase" and made it "One-Stop Operation". In large-scale systems, things get updated every day and device failure occurs frequently. Even in such scenario, Exastro IT Automation provides an environment where designers and operators can concentrate on their work by managing the design history of system configuration centrally. In other words, with the use of Exastro IT Automation, high level of efficiency and quality balance can be achieved easily.

Parameter sheet with history management function provided by Exastro IT Automation

host	Operation		Parameters				Design Date
	date	Name	P1	P2	P3	...	
hostA	12/20	Prepare for Christmas	1024	512	2048	...	10/1
hostA	11/20	Add hostB	512	256	1024	...	8/3
hostA	9/3	First release	256	128	512	...	7/7
hostB	12/20	Prepare for Christmas	16	32	64	...	10/1
hostB	11/20	Add hostB	32	64	128	...	9/2

Designers can concentrate on design.



Case 03

Exastro IT Automation enables "automatic incident recovery" in system operations. We will soon release an Open Source Software that classifies the incidents occurs in the system's known and unknown events. We have named the software as "Exastro Operation Autonomy Support Engine". This software in combination with "Exastro IT Automation", enables the automatic execution of countermeasures for known events.

