RESILIENT SYSTEMS

Web URL Integration Guide

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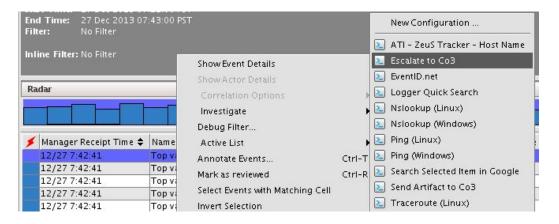
The Resilient Systems Application supports a rich variety of programmable interfaces that can be used for integration with other systems. The simplest of these interfaces is the Web URL.

By directing a user's browser to specially-constructed Web URLs, the user can be guided through automatic creation of an incident, and other functions.

Example Uses

A typical use case for this integration is in manually creating Resilient incidents from within another system, such as a SIEM. This streamlines the process of escalation to the incident response team.

For example, the user interface of HP ArcSight can be extended to add custom commands and configurations. In these configurations, a simple customization creates a direct link from the ArcSight UI where users can immediately create and enrich incidents in Resilient.



This document provides details and examples of the URL syntax, including examples of how these are used in practical integrations.

Web URL Methods

There are two methods for Web URL integration: "#external/new_by_url", to create a new incident, and "#external/add_artifacts_by_url", to add artifacts to an existing incident.

The full URL for these is based at the Resilient server's normal address. For example, for server hostname "app.resilientsystems.com" and the default SSL port 443, the full URLs are

```
https://app.resilientsystems.com/#external/new_by_url?...
https://app.resilientsystems.com/#external/add_artifacts_by_url?...
```

The query-string parameters after '?' are documented in the sections below.

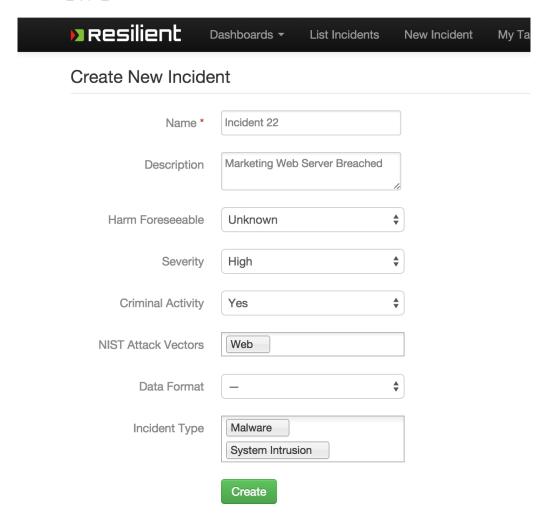
New Incident by URL

Opens a form for creating a new incident. The URL specifies which fields should be displayed on the form layout, and optional values for those fields. If a value is omitted, the field is shown on the form layout, but has no default value.

#external/new_by_url?field=[value]&field=[value]...

A full example is shown below, from the following URL:

https://app.resilientsystems.com/#external/new_by_url?name=Incident%2022&description=Marketing%20Web%20Server%20Breached&harmstatus_id=Unknown&severity_code=high&crimestatus_id=Yes&nist_attack_vectors=Web&data_format=&incident_type_ids=19,20



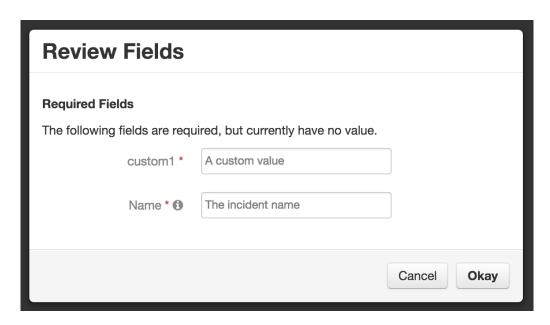
Field names

Fields are specified by their "API name". Every field in Resilient has a unique API name.

Fields in the form layout will appear in the order that they are specified in the URL.

If a fieldname is specified in the URL but does not exist in the server, it will be ignored.

If a required field (for example 'name', or a custom field) is not specified in the URL, it will appear in the "Review Fields" dialog, where it must be completed before the incident can be saved.



Field values

Values for fields with enumerated options, for example "incident type" and "country", can be specified by their ID value or by the full text value. For example, the enumerated code for country Belgium is 1038, so these two are equivalent:

#external/new_by_url?country=Belgium
#external/new_by_url?country=1038

Refer to the table in Appendix 1 for the list of standard fields, and numeric IDs for standard enumerated values.

Some fields support multiple values. In these cases, the URL can include multiple values, separated by comma. For example, multiple incident types would be specified as "incident_type_ids=18,19,22".

Text in field values should be URL-encoded ("percent-encoded"), to allow inclusion of special and non-URL-safe characters.

To specify a value for a field without showing the field on the form layout, the value can be enclosed in a JSON block that includes "hidden":true. The URL-encoded JSON block below shows an example where the "name" field is specified but hidden, and so is not editable by the user when creating the incident.

#external/new_by_url?name={%22value%22:%22Incident%20X%22,%22hidden%22:tr
ue}

Time/date field values are specified in milliseconds of the Unix epoch. In the external application, this might be generated using for example the JavaScript 'Date.now()', Python 'time.time()', or the bash 'date +%s' (seconds) followed by three zeros.

Add Artifacts by URL

Opens a form for adding new artifacts to an existing incident. The URL specifies a list of artifacts, each entry having an artifact type and value.

```
#external/add_artifacts_by_url?artifacts[]=type,value...
```

The resulting page shows a dropdown list of incidents, and the supplied artifacts.

The URL parameter ends with a numeric artifact type, and then the artifact itself, separated by a comma. For example, if the number 1 is used to indicate an IP address, and the IP address is 192.168.1.2, then the resulting URL would be:

```
https://server/#external/add_artifacts_by_url?artifacts[]=1,192.168.1.2
```

Artifact types include IP addresses, DNS names, URL's, and other types. Refer to the table in Appendix 2 for the complete list of artifact types.

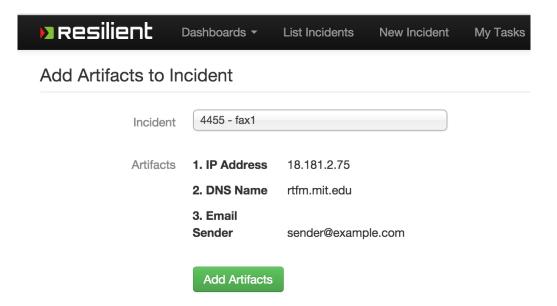
If known, the URL can specify the incident ID. This selects the given incident in the dropdown list:

```
#external/add_artifacts_by_url?incident_id=1234&artifacts[]=type,value...
```

Multiple artifacts can be specified in one URL. To do this, repeat the 'artifacts' parameter as many times as required. For example,

https://server/#external/add_artifacts_by_url?artifacts[]=1,18.181.2.75&artifacts[]=2,rtfm.mit.edu&artifacts[]=9,sender@example.com

produces the result below:



Authentication

When opening a browser window with one of these URLs, a login prompt will appear if the user is not already logged in to the Resilient server. This login prompt requires the user's normal credentials (email address and password). If SAML authentication or two-factor authentication is configured, it also applies to the URL integration methods.

Appendices

Appendix 1: Standard Fields and Values

Field	Description	Available Values
name	Name	Text field
exposure_individual_name	Individual Name	Text field
addr	Address	Text field
zip	Zip	Text field
city	City	Text field
reporter	Reporting Individual	Text field
country	Country	1017 Afghanistan
	,	1261 Ãland Islands
		1018 Albania
		1019 Algeria
		1020 American Samoa
		1021 Andorra
		1022 Angola
		1023 Anguilla
		1024 Antarctica
		1025 Antigua and Barbuda
		1026 Argentina
		1027 Armenia
		1028 Aruba
		1029 Ascension and Tristan Da
		Cunha Saint Helena
		1262 Asia
		1030 Australia
		1031 Austria
		1032 Azerbaijan
		1033 Bahamas
		1034 Bahrain
		1035 Bangladesh
		1036 Barbados
		1037 Belarus
		1038 Belgium
		1039 Belize
		1040 Benin
		1041 Bermuda
		1042 Bhutan
		1043 Bolivarian Republic of
		Venezuela
		1044 Bosnia and Herzegovina
		1045 Botswana
		1046 Bouvet Island
		1047 Brazil
		1048 British Indian Ocean Territory

	1049 British Virgin Islands
	1050 Brunei Darussalam
	1051 Bulgaria
	1052 Burkina Faso
	1053 Burundi
	1054 Cambodia
	1055 Cameroon
	1001 Canada
	1056 Cape Verde
	1057 Cayman Islands
	1058 Central African Republic
	1059 Chad
	1060 Chile
	1061 China
	1062 Christmas Island
	1063 Cocos (Keeling) Islands
	1064 Colombia
	1065 Comoros
	1066 Congo 1067 Cook Islands
	1068 Costa Rica
	1074 Côte d'Ivoire
	1069 Croatia
	1070 Cuba
	1071 Curação
	1072 Cyprus
	1073 Czech Republic
	1075 Democratic People's Republic
	of Korea
	1076 Denmark
	1077 Djibouti
	1078 Dominica
	1079 Dominican Republic
	1080 Ecuador
	1081 Egypt
	1082 El Salvador
	1083 Equatorial Guinea
	1084 Eritrea
	1085 Estonia
	1086 Ethiopia
	1002 Europe
	1087 Falkland Islands (Malvinas)
	1088 Faroe Islands
	1089 Federated States of Micronesia
	1090 Fiji
	1091 Finland
	1092 France
	1093 French Guiana
	1094 French Polynesia
	1095 French Southern Territories

1096 Gabon
1097 Gambia
1098 Georgia (Country)
1099 Germany
1100 Ghana
1101 Gibraltar
1102 Greece
1103 Greenland
1104 Grenada
1105 Guadeloupe
1106 Guam
1107 Guatemala
1108 Guernsey
1109 Guinea
1110 Guinea-Bissau
1111 Guyana
1112 Haiti
1113 Heard Island and Mcdonald
Islands
1114 Holy See (Vatican City State)
1115 Honduras
1116 Hong Kong
1117 Hungary
1118 Iceland
1119 India
1120 Indonesia
1121 Iraq
1122 Ireland
1123 Islamic Republic of Iran
1124 Isle of Man
1124 Israel
1126 Italy
1120 Italy 1127 Jamaica
1128 Japan
1129 Jersey 1130 Jordan
1130 Jordan 1131 Kazakhstan
1131 Kazaknstan 1132 Kenya
1133 Kiribati
1134 Kuwait
1135 Kyrgyzstan
1136 Lao People's Democratic
Republic
1137 Latvia
1138 Lebanon
1139 Lesotho
1140 Liberia
1141 Libya
1142 Liechtenstein
1143 Lithuania

1144 Luxembourg
1145 Macao
1146 Madagascar
1147 Malawi
1148 Malaysia 1149 Maldives
1150 Mali
1151 Malta
1152 Marshall Islands
1153 Martinique
1154 Mauritania
1155 Mauritius
1156 Mayotte
1157 Mexico
1158 Monaco
1159 Mongolia
1160 Montenegro
1161 Montserrat
1162 Morocco
1163 Mozambique
1164 Myanmar
1165 Namibia
1166 Nauru
1167 Nepal
1168 Netherlands
1169 New Caledonia
1170 New Zealand
1171 Nicaragua
1172 Niger
1173 Nigeria
1174 Niue
1175 Norfolk Island
1176 Northern Mariana Islands
1177 Norway
1178 Oman
1016 Other
1179 Pakistan
1180 Palau
1181 Panama
1182 Papua New Guinea
1183 Paraguay
1184 Peru
1185 Philippines
1186 Pitcairn
1187 Plurinational State of Bolivia
1187 Plumational State of Bolivia
1189 Portugal
1190 Province of China Taiwan
1191 Qatar
1192 Republic of Korea

1193 Republic of Moldova
1197 Réunion
1194 Romania
1195 Russian Federation
1196 Rwanda
1198 Saint Barthélemy
1199 Saint Kitts and Nevis
1200 Saint Lucia
1201 Saint Martin (French Part)
1202 Saint Pierre and Miquelon
1203 Saint Vincent and the
Grenadines
1204 Samoa
1204 Samoa 1205 San Marino
1206 Sao Tome and Principe
1200 Saudi Arabia
1207 Saudi Afabia 1208 Senegal
1209 Serbia
1210 Seychelles
1211 Sierra Leone
1212 Singapore
1213 Sint Eustatius and Saba Bonaire
1214 Sint Maarten (Dutch Part)
1215 Slovakia
1216 Slovenia
1217 Solomon Islands
1218 Somalia
1219 South Africa
1220 South Georgia and the South
Sandwich Islands
1221 South Sudan
1222 Spain
1223 Sri Lanka
1224 State of Palestine
1225 Sudan
1226 Suriname
1227 Svalbard and Jan Mayen
1228 Swaziland
1229 Sweden
1230 Switzerland
1231 Syrian Arab Republic
1232 Tajikistan
1233 Thailand
1234 The Democratic Republic of
the Congo
1235 The Former Yugoslav Republic
of Macedonia
1236 Timor-Leste
1237 Togo
1238 Tokelau

	1	T
		1239 Tonga
		1240 Trinidad and Tobago
		1241 Tunisia
		1242 Turkey
		1243 Turkmenistan
		1244 Turks and Caicos Islands
		1245 Tuvalu
		1246 Uganda
		1247 Ukraine
		1248 United Arab Emirates
		1249 United Kingdom
		1250 United Republic of Tanzania
		1000 United States
		1251 United States Minor Outlying
		Islands
		1252 Uruguay
		1253 Uzbekistan
		1254 Vanuatu
		1255 Viet Nam
		1256 Wallis and Futuna
		1257 Western Sahara
		1258 Yemen
		1259 Zambia
		1260 Zimbabwe
exposure_type_id	Exposure Type	1 Unknown
		2 External Source/Vendor
		3 Individual
data_source_ids	Source of Data	CUSTOM#
data_format	Data Format	0 Electronic
		1 Paper
		2 Oral
exposure_dept_id	Department	CUSTOM#
exposure_vendor_id	Vendor	CUSTOM#
state	State, or Province for	1 Alabama
	Canada	2 Alaska
		4 Arizona
		5 Arkansas
		6 California
		7 Colorado
		8 Connecticut
		9 Delaware
		10 District of Columbia
		12 Florida
		13 Georgia
		15 Hawaii
		16 Idaho
		17 Illinois
		18 Indiana
		19 Iowa
		20 Kansas

		21 Kentucky
		22 Louisiana
		23 Maine
		25 Maryland
		26 Massachusetts
		27 Michigan
		28 Minnesota
		29 Mississippi
		30 Missouri
		31 Montana
		32 Nebraska
		33 Nevada
		34 New Hampshire
		35 New Jersey
		36 New Mexico
		37 New York
		38 North Carolina
		39 North Dakota
		41 Ohio
		42 Oklahoma
		43 Oregon
		45 Pennsylvania
		77 Puerto Rico
		47 Rhode Island
		48 South Carolina
		49 South Dakota
		50 Tennessee
		51 Texas
		52 Utah
		53 Vermont
		55 Virginia
		54 Virgin Islands
		56 Washington
		57 West Virginia
		58 Wisconsin
		59 Wyoming
		77 Puerto Rico
		1003 Alberta
		1004 New Brunswick
		1005 Newfoundland and Labrador
		1006 Ontario
		1007 Manitoba
		1008 Quebec
		1009 Nova Scotia
		1010 British Columbia
		1011 Prince Edward Island
		1012 Saskatchewan
		1013 Yukon
		1014 Northwest Territories
		1015 Nunavut
L	<u> </u>	101011000

		1106 Guam
		1176 Northern Mariana Islands
ataut data	Date Occurred	Time/date
start_date	Date Discovered	*
discovered_date		Time/date
harmstatus_id	Harm Foreseeable	1 No
		2 Unknown
		3 Yes
severity_code	Severity	H High
		M Medium
		L Low
crimestatus_id	Criminal Activity	1 No
		2 Yes
		3 Yes – Freeze Tasks
		4 Completed
		5 Unknown
confirmed	Incident Disposition	0 No
		1 Yes
negative_pr_likely	Negative PR	0 No
		1 Yes
		null = Unknown
data_compromised	Data Compromised	0 No
•		1 Yes
		null = Unknown
data_encrypted	Data Encrypted	0 No
7.1	31	1 Yes
		null = Unknown
data_contained	Exposure Resolved	0 No
		1 Yes
		null = Unknown
employee_involved	Employee Involved	0 No
1 7 —		1 Yes
		null = Unknown
plan_status	Status	A Active
1 –		C Closed
phase_id	Phase	1 Engage
P		2 Detect/Analyze
		3 Respond
		4 Post-Incident
nist_attack_vectors	NIST Attack Vectors	0 Manual Selection
mst_acaen_vectors	1 (101 Tittlein Vectors	1 External Media
		2 Attrition (Denial-of-Service and
		Brute-Force Attacks)
		3 Web
		4 Email
		5 Impersonation
		6 Improper Usage
		7 Theft or Loss of Equipment
		8 Other
incident trae ide	Incident Two	
incident_type_ids	Incident Type	1 Lost PDA/Smartphone
		2 Reserved

		3 Lost PDA/Laptop/Tablet 4 Lost Documents/Files/Records 5 Reserved 6 Improper Disposal of Digital Assets 7 Improper Disposal of Documents/Files 8 Lost Storage Device/Media 9 Reserved 10 Reserved 11 Stolen Documents/Files/Records 12 Stolen PC/Laptop/Tablet 13 Stolen PDA/Smartphone
description	Description	14 Stolen Storage Device/Media 15 Vendor/3rd Party Error 16 TBD/Unknown 17 Communication Error(fax;email) 18 Other 19 Malware 20 System Intrusion 21 Denial of Service 22 Phishing 23 Not an Issue Multiline text or rich-text
hard_liability	Assessed Liability	Numeric field (no "\$" sign allowed)
owner_id	Owner	Email address. Must be an invited member of the Resilient organization.
members	Members	Email address(es). Must be an invited member of the Resilient organization. Multi-select allowed, separated by comma
jurisdiction_name inc_training	Jurisdiction Simulation	Text field 0 No
<u> </u>		1 Yes

Appendix 2: Artifact Type IDs

Value	Artifact Type
1	IP Address
2	DNS Name
3	URL
5	Email Subject
6	Email Body
8	Email Attachment Name
9	Email Sender
13	MD5 Hash

14	Malware SHA-1 Hash
19	Email Sender Name
20	Email Recipient
22	Malware Sample Fuzzy Hash
23	User Account
24	Registry Key
25	System Name
26	Process Name
27	Port
28	Service
29	String
30	Mutex
31	File Name
32	Password
34	HTTP Request Header
35	HTTP Response Header