

# ReportRun (API)

This is an API method that allows API users to run certain reports through the API, receiving the report as an XML document.

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## Request structure

Key	Type	Description	Mandatory
name	string	Name of the report to run	Yes
filter	XML or string	Filters to apply when running the report	No
filterformat	"xml" or "json"	Format of the filter data	No
limit	integer	Maximum number of rows to return	No
offset	integer	Number of rows to skip	No

## Filters

To apply filters to the specified report, both the "filter" and "filterformat" keys must be specified. The "filterformat" key is either "xml" or "json", specifying the format of the "filter" key, and the "filter" key contains the filter data encoded appropriately.

If the type of a filter is suffixed with "[]", then that filter can accept more than one option. The "list" filter in the examples below shows how multiple options should be specified for a filter.

In the examples below, we're specifying that the "keyword" filter should be set to "test" and the "list" filter should be set to the values "a", "b" and "c".

## JSON Example:

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:ReportRun"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ns2="urn:tsoIntegrator"

SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
  <SOAP-ENV:Body>
    <ns1:ReportRun>
      <parms_in xsi:type="ns2:ReportRunType">
        <api_key>astute</api_key>
        <api_username>api.admin</api_username>
        <api_password>password</api_password>
        <name>customerlist</name>
        <filterformat>json</filterformat>
        <filter>{
          "keyword": "test",
          "list": ["a", "b", "c"]
        }</filter>
      </parms_in>
    </ns1:ReportRun>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

The JSON provided in the "filter" tag *must* be a valid JSON object, anything else will either cause the request to fail or not work as expected.

## XML Example:

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:ReportRun"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ns2="urn:tsoIntegrator"

SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
  <SOAP-ENV:Body>
    <ns1:ReportRun>
      <parms_in xsi:type="ns2:ReportRunType">
        <api_key>astute</api_key>
        <api_username>api.admin</api_username>
        <api_password>password</api_password>
        <name>customerlist</name>
        <filterformat>xml</filterformat>
        <filter>
          <keyword>test</keyword>
        </filter>
      </parms_in>
    </ns1:ReportRun>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

## No Filters:

If no filtering is required, it is ***strongly recommended*** that the "filterformat" and "filter" tags are omitted entirely, however if they must be present, the following examples illustrate how to format the "filter" tag so that no filters will be applied. Note that anything else is likely to cause errors due to the strange way the filters are parsed.

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:ReportRun"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ns2="urn:tsoIntegrator"

SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
  <SOAP-ENV:Body>
    <ns1:ReportRun>
      <parms_in xsi:type="ns2:ReportRunType">
        <api_key>astute</api_key>
        <api_username>api.admin</api_username>
        <api_password>password</api_password>
        <name>customerlist</name>
        <filterformat>xml</filterformat>
        <filter/>
      </parms_in>
    </ns1:ReportRun>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:ReportRun"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ns2="urn:tsoIntegrator"

SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
  <SOAP-ENV:Body>
    <ns1:ReportRun>
      <parms_in xsi:type="ns2:ReportRunType">
        <api_key>astute</api_key>
        <api_username>api.admin</api_username>
        <api_password>password</api_password>
        <name>customerlist</name>
        <filterformat>json</filterformat>
        <filter>{}</filter>
      </parms_in>
    </ns1:ReportRun>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

## Accessible Reports

Name	Location in UI	Description
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payslips	Reports > Payroll > Employee Pay Advices	A listing of employee payslips including amounts paid, pay and pay run details and a link to the payslip.
leavebalance	Reports > Payroll > Leave Balances	A listing of leave balances by employee and leave type. <div>This is a customised version of the UI report for the API</div>
customerlist	Users > Customers	Listing of customers with the ability to search for specific customers. This is different to the BillerQuery API method in that it includes workplace and active job counts.
agedreceivabledetail	Reports > Invoices > Aged Receivables	This produces the "detailed" view from the "Export Detail CSV" export including customer details, consultants, invoice details and outstanding amounts.
paymentdetail	Reports > Invoices > Payment Report	This produces the "detailed" view from the "Export Detailed Payment Report" export including customer details, payment details and notes
customersalesdetail	Reports > Invoices > Customer Sales Detail	This produces the "detailed" view from the "Customer Sales Detailed Report" export including customer details, invoices details and balances.

## Payslip Report

### Columns

### Filters

Name	Type	Description	Name	Type	Description	Example	Mandatory
employee_mid	int	Astute ID of an employee ("MID")	paydate_from	date	From pay date	2017-01-01	Yes
employee_remoteid	string	Remote ID of an employee ("remoteid")	paydate_to	date	To pay date	1.1.2017	No
employee_name_last	string	Surname of an employee	payroll_CM_CID	integer[]	Astute ID of a payroll entity	1	No
employee_name_first	string	First name of an employee	pay_run_number	integer	Number of a pay run	9	No
pay_id	int	Astute ID of a specific pay	status	string	Payslip status, "outstanding", "draft", "sent", "excluded"	draft	No
paydate	date	Date of the pay					
pay_run_number	int	Number of the pay run the pay was paid in					
pay_period_start	date	Start date of the pay period					
pay_period_end	date	End date of the pay period					
gross_wages	money	Total amount paid in the pay	employee	string	Keyword to search for employees	alex	No
tax	money	Tax paid in the pay					
net_wages	money	Total amount paid to the employee	employee_mid	int	Astute ID of an employee ("MID")	12	No
superannuation	money	Super amount paid to the employee	employee_remoteid	string	Remote ID of an employee ("remoteid")	B-CAND-1234	No
payslip_status	string	Payslip status, one of "outstanding", "draft", "sent" or "excluded"					
payslip_link	URL	HTML fragment containing a link to the payslip					

## Leave Balances Report

### Columns

### Filters

Name	Type	Description	Name	Type	Description	Example
employee_mid	integer	Astute ID of an employee ("MID")	payroll_CM_CID	integer[]	Astute ID of a payroll entity	1

employee_remoteid	string	Remote ID of an employee ("remoteid")
employee_name_last	string	Surname of an employee
employee_name_first	string	First name of an employee
LM_type_id	integer	Astute ID of a leave type
leave_type	string	Name of the leave type
current_balance	decimal	Current leave balance in hours
available_balance	decimal	Available leave balance in hours

employee	string	Keyword to search for employees	alex
employee_mid	int	Astute ID of an employee ("MID")	12
employee_remoteid	string	Remote ID of an employee ("remoteid")	B-CAND-1234
include_inactive	boolean	Whether we include employees without active jobs	1

## Customer List Report

### Columns

Name	Type	Description
BID	integer	Astute ID of the customer
company_name	string	Name of the customer
trading_name	string	Trading name of the customer
parent_bid	integer	Astute ID of the customer's parent
parent_company_name	string	Name of the customer's parent
parent_trading_name	string	Trading name of the customer's parent
ABN	string	The customer's ABN
address_street	string	Customer's street address
address_suburb	string	Customer's city or suburb
address_postcode	string	Customer's postcode
address_region	string	Customer's region, e.g. "VIC, AU"
phone	string	Customer's phone number
tax_free	boolean	Whether the customer is tax free
tax_payroll_exempt	boolean	Whether the customer is exempt from payroll tax

### Filters

Name	Type	Description	Example
only_active_jobs	boolean	Whether we only output customers with active jobs	1
keyword	string	Keyword to search for in the customer's name	Council

payment_terms	string	Customer's payment terms
workplaces	integer	Number of workplaces
active_job_count	integer	Number of active jobs
direct_debit_enabled	boolean	Whether the customer has direct debit enabled
direct_debit_default	boolean	Whether to bill the customer via direct debit by default
account_name	string	Name of the customer's bank account (for direct debit)
account_bsb	string	BSB of the customer's bank account (for direct debit)
account_number	string	Number of the customer's bank account (for direct debit)
cc_enabled	boolean	Whether the customer has credit card billing enabled
cc_default	boolean	Whether to bill the customer via credit card by default
cc_payway_id	string	Customer's PayWay ID

## Aged Receivables Detailed Report

### Columns

Name	Type	Description
entity	string	Name of the billing entity
parent_customer_id	integer	Astute ID of the customer's parent
parent_customer_remote_id	string	Remote ID of the customer's parent
parent_customer_name	string	Name of the customer's parent
BID	integer	Astute ID of the customer
customer_remote_id	string	Remote ID of the customer
customer	string	Name of the customer

### Filters

Name	Type	Description	Example
billing_CM_CID	integer[]	Astute ID of a billing entity	1
invoice_number	string	Number of an invoice	INV-123
currency	string	Currency code (only available on multi-currency portals)	AUD
customer	string	Keyword to search for in a customer's name	Council
as_at_date	date	Date to run the report for	24.12.2018
invoice_amount_from	float	Only show invoices with totals more than this amount	1000

contact_id	integer	Astute ID of the billing group
contact	string	Name of the billing group
primary_consultant_id	integer	Astute ID of the first recruiter
primary_consultant	string	Name of the first recruiter
employee_id	integer	Astute ID of the employee ("MID")
employee	string	Name of the employee
IID	string	ID of the invoice or credit note
invoice_remote_id	string	Remote ID of the invoice
invoice_number	string	Invoice number
InvoiceSent	date	Actual date when the invoice was sent
InvoiceDueDate	date	Date the invoice was due
InvoiceTransaction	date	Transaction date of the invoice
total	money	Amount due on the invoice
days	integer	Days aged
due	money	Amount due

There will also be "date\_range\_\*" columns corresponding to the numbers in the "receivable\_date\_ranges" master config setting.

## Payment Detail Report

### Columns

Name	Type	Description
bill_through_entity	string	Name of the billing entity
parent_customer_id	integer	Astute ID of the customer's parent
parent_customer_name	string	Name of the customer's parent
customer_id	integer	Astute ID of the customer
customer_name	string	Name of the customer
payment_date	date	Actual date on which the payment occurred

invoice_amount_to	float	Only show invoices with totals less than this amount	2000
invoice_balance_from	float	Only show invoices with balances more than this amount	1000
invoice_balance_to	float	Only show invoices with balances less than this amount	2000
include_credit_notes	boolean	Whether we include credit notes as aged receivables	1

### Filters

Name	Type	Description	Example
billing_CM_CID	integer[]	Astute ID of a billing entity	1
payment_date_from	date	Only show payments made after this date	2017-01-01
payment_date_to	date	Only show payments made before this date	1.1.2017
customer	string	Keyword to search for in a customer's name	Council
invoice_number	string	Number of an invoice	INV-123
payment_id	integer	Only show payments with this ID	12



payment_transaction_date	date	Transaction date of the payment
payment_received_id	integer	Astute ID of the payment
invoice_currency	string	Code of the currency the payment was received in
payment_total	money	Total of the payment
invoice_iid	integer	Astute ID of the invoice paid
invoice_number	string	Number of the invoice paid
direct_debit_run_number	integer	Astute ID of the direct debit run if the payment was made using direct debit
payment_amount	money	Amount paid of the invoice
amount_due	money	Balance of the invoice
payment_notes	string	Notes attached to the payment
export_id	string	IDs of the export this payment was exported in

include_provisional_payments	boolean	Include direct debit payments which have not been finalised	1
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## Customer Sales Detail Report

### Columns

Name	Type	Description	Invoice
billing_entity_name	string	Name of the billing entity the invoice was sent from	Y
subentity1_region_short	string	Short version of the region the subentity one is in	
subentity1_name	string	Name of the subentity one (e.g. branch)	
subentity2_name	string	Name of the subentity two (e.g. division)	
customer_parent_id	integer	Astute ID of the customer's parent customer	Y
customer_parent_name	string	Name of the customer's parent customer	Y
customer_id	integer	Astute ID of the customer	Y

### Filters

Name	Type	Description	Example
billing_CM_CID	integer[]	Astute ID of a billing entity	1
customer	string	Keyword to search for in a customer's name	Council
invoice_number	string	Number of an invoice	INV-123
employee_search	string	Keyword to search for employees	alex
invoice_issued_date_from	date	Only show invoices issued after this date	2017-01-01
invoice_issued_date_to	date	Only show invoices issued before this date	1.1.2017
invoice_due_date_from	date	Only show invoices due after this date	2017-01-01

customer_name	string	Name of the customer	Y
invoice_id	integer	Astute ID of the invoice	Y
invoice_number	string	Invoice number	Y
invoice_date_issued	date	Actual date the invoice was issued	Y
invoice_contacts	string	Name of the billing group(s) the invoice was sent to	Y
invoice_item_recruiters_string	string	Comma separated list of recruiter IDs associated with the line item	
employee_id	integer	Astute ID of the employee the line item is for	
employee_name	string	Name of the employee the line item is for	
job_workplace	string	Name of the workplace of the job the line item is for	
invoice_item_description	string	Description of the line item	
invoice_item_quantity	decimal	Quantity of the line item	
invoice_item_unit_singular	string	Unit type if known (e.g. hour or day)	
invoice_item_taxtotal	money	Line item tax	
invoice_item_total	money	Line item total, tax inclusive	
invoice_item_account_code	string	Income account line item is for	
invoice_item_po_number	string	PO number the line item is for	

Note that there is a line in the outputted data for every invoice line item found given the filters passed. Each line for a specific invoice will have the same data in the first few columns, identified by being "invoice" columns above. The remaining columns will contain data for each invoice line item found.

invoice_due_date_to	date	Only show invoices due before this date	1.1.2017
invoice_status	string[]	Only show invoices with the statuses provided	sent, viewed

The **invoice\_status** filter can be specified either as a single status or a list of them. Valid options are:

String	Meaning
	Draft invoices
sent	Sent invoices
viewed	Viewed invoices
partial	Partially paid invoices
paid	Paid invoices (includes written off invoices)

For draft invoices, provide an empty string as the status.