

# CONFIDENTIAL

## ResWare Search Data Web Service

### Description

The Search Data web service is used to send search data to a file in a ResWare system. This can be done by either another ResWare system or a third party system.

### Implementation

The web service is implemented using Microsoft WCF. For best results connecting to the service it is recommended to use .NET 3.0 to generate code from the WSDL to do this.

### WSDL

The WSDL of this web service can be found at:

<https://xxx.com/ResWareWebServices/ReceiveSearchDataService.svc?wsdl>

### Methods

There is one method that can be called on the web service:

```
ReceiveSearchDataResponse ReceiveSearchData(ReceiveSearchDataData theData);
```

### Fields

#### ReceiveSearchDataData Element

Field Name	Type	Required	Description
FileNumber	String	Yes	File number in the remote ResWare system that the search data needs to be attached to.
ProposedInsured	String	No	
Vesting	String	No	
ParcelID	String	No	
Legal	String	No	
CommitmentEffectiveDate	DateTime	No	
CommitmentInterestID	Int	No	
Liens[]	Array of <a href="#">ReceiveSearchDataLien</a>	No	Array of liens.
Requirements[]	Array of <a href="#">ReceiveSearchDataRequirement</a>	No	Array of requirements.
Easements[]	Array of <a href="#">ReceiveSearchDataEasement</a>	No	Array of easements.
Restrictions[]	Array of <a href="#">ReceiveSearchDataRestriction</a>	No	Array of restrictions.

ChainOfTitle[]	Array of <a href="#">ReceiveSearchDataChainOfTitle</a>	No	Array of chain of title items.
Taxes[]	Array of <a href="#">ReceiveSearchDataTax</a>	No	Array of taxes.
Leasehold	String	No	
YearAcquired	Int	No	Primary property attribute.
AssessedLandValue	Decimal	No	Primary property attribute.
AssessedImprovementValue	Decimal	No	Primary property attribute.

## ReceiveSearchDataLien Element

Inherits from [ReceiveSearchDataLienRequirementBase](#)

Field Name	Type	Required	Description
LienID	Int	No	ID of the lien on the local system.
LienTypeID	Int	Yes	LienTypeID of the lien. The list of LienTypeID's are maintained on the remote system.
LienTypeName	String	No	Name of the lien type. Only used for sending to third party systems not making use of LienTypeID.

## ReceiveSearchDataRequirement Element

Inherits from [ReceiveSearchDataLienRequirementBase](#)

Field Name	Type	Required	Description
RequirementID	Int	No	ID of the requirement on the local system.
RequirementTypeID	Int	Yes	RequirementTypeID of the requirement. The list of RequirementTypeID's are maintained on the remote system.
RequirementTypeName	String	No	Name of the requirement type. Only used for sending to third party systems not making use of the Requirement Type ID.

## ReceiveSearchDataLienRequirementBase Element

Field Name	Type	Required	Description
Date	DateTime	No	
RecordedDate	DateTime	No	
Amount	Decimal	No	
Holder	String	No	
Against	String	No	
InFavorOf	String	No	
Trustee	String	No	
Assignor	String	No	
Assignee	String	No	
AssigneeBook	String	No	
AssigneePage	String	No	
AssigneeLiber	String	No	
AssigneeInstrument	String	No	
AssigneeVolume	String	No	

DocumentName	String	No	
Purpose	String	No	
Grantor	String	No	
Grantee	String	No	
Endorsements	String	No	
BookPages[]	Array of <a href="#">ReceiveSearchDataBookPage</a>	No	Array of book/pages.
Book	String	No	Deprecated, use BookPages instead.
Page	String	No	Deprecated, use BookPages instead.
Liber	String	No	
Instrument	String	No	
Volume	String	No	
State	String	No	
StateDistrict	String	No	
County	String	No	
CourtType	String	No	
CourtDistrict	String	No	
CaseNumber	String	No	
TaxYears	String	No	
InstallmentNumber	String	No	
InstallmentAmount	Decimal	No	
MaturityDate	DateTime	No	
Language	String	Yes	
IsAllCaps	Bool	No	
Flagged	Bool	No	

## ReceiveSearchDataEasement Element

Inherits from [ReceiveSearchDataEasementRestrictionBase](#)

Field Name	Type	Required	Description
EasementID	Int	No	ID of the easement on the local system.
EasementTypeID	Int	Yes	EasementTypeID of the easement. The list of EasementTypeID's are maintained on the remote system.
EasementTypeName	String	No	Name of the easement type. Only used for sending to third party systems not making use of the Easement Type ID.

## ReceiveSearchDataRestriction Element

Inherits from [ReceiveSearchDataEasementRestrictionBase](#)

Field Name	Type	Required	Description
RestrictionID	Int	No	ID of the restriction on the local system.
RestrictionTypeID	Int	Yes	RestrictionTypeID of the restriction. The list of RestrictionTypeID's are maintained on the remote system.
RestrictionTypeName	String	No	Name of the restriction type. Only used for sending to third party systems not making use of the Restriction Type ID.

## ReceiveSearchDataEasementRestrictionBase Element

Field Name	Type	Required	Description
Date	DateTime	No	
RecordedDate	DateTime	No	
DocumentName	String	No	
Purpose	String	No	
Grantor	String	No	
Grantee	String	No	
BookPages[]	Array of <a href="#">ReceiveSearchDataBookPage</a>	No	Array of book/pages.
Book	String	No	Deprecated, use BookPages instead.
Page	String	No	Deprecated, use BookPages instead.
Liber	String	No	
Instrument	String	No	
Volume	String	No	
Language	String	Yes	
IsAllCaps	Bool	No	

## ReceiveSearchDataChainOfTitle Element

Field Name	Type	Required	Description
ChainOfTitleID	Int	No	ID of the chain of title on the local system.
DeedType	String	No	
Grantors	String	Yes	
Grantees	String	Yes	
BookPages[]	Array of <a href="#">ReceiveSearchDataBookPage</a>	No	Array of book/pages.
DeedBookVolumePage	String	No	Deprecated, use BookPages instead.
Instrument	String	No	
Dated	DateTime	No	
Recorded	DateTime	No	
Consideration	Decimal	No	
Notes	String	No	

## ReceiveSearchDataTax Element

Field Name	Type	Required	Description
TaxID	Int	No	ID of the tax on the local system.
TaxTypeID	Int	Yes	TaxTypeID of the tax. The list of TaxTypeID's are maintained on the remote system.
TaxTypeName	String	No	Name of the tax type. Only used for sending to third party systems not making use of the Tax Type ID.
TaxIDNumber	String	Yes	
TaxIDNumberFurtherDescribed	String	No	
StateIDNumber	String	No	
Year	Int	Yes	
TaxingEntity	String	Yes	
TaxingEntityPhone	String	No	
TaxingEntityStreet1	String	No	

TaxingEntityStreet2	String	No	
TaxingEntityCity	String	No	
TaxingEntityState	String	No	
TaxingEntityZipCode	String	No	
TotalAnnualTax	Decimal	No	
PaymentFrequencyTypeID	Int	No	
PaymentFrequencyTypeName	String	No	Name of the payment frequency type. Only used for sending to third party systems.
Land	Decimal	No	
Improvements	Decimal	No	
ExemptionMortgage	Decimal	No	
ExemptionHomeowners	Decimal	No	
ExemptionHomesteadSupplemental	Decimal	No	
ExemptionAdditional	Decimal	No	
Other	Decimal	No	
Notes	String	No	
Estimated	Bool	No	Deprecated, use installment *Estimated instead.
FirstEstimated	Bool	No	
FirstInstallment	Decimal	Yes	First installment amount.
FirstPartiallyPaidAmount	Decimal	No	
FirstPartiallyPaid	Bool	No	
FirstPaid	Bool	No	
FirstDue	Bool	No	
FirstDelinquent	Bool	No	
FirstTaxesOutDate	DateTime	No	
FirstDiscountDate	DateTime	No	
FirstDueDate	DateTime	No	
FirstDelinquentDate	DateTime	No	
FirstGoodThroughDate	DateTime	No	
FirstPaidDate	DateTime	No	
SecondEstimated	Bool	No	
SecondInstallment	Decimal	No	Second installment amount.
SecondPartiallyPaidAmount	Decimal	No	
SecondPartiallyPaid	Bool	No	
SecondPaid	Bool	No	
SecondDue	Bool	No	
SecondDelinquent	Bool	No	
SecondTaxesOutDate	DateTime	No	
SecondDiscountDate	DateTime	No	
SecondDueDate	DateTime	No	
SecondDelinquentDate	DateTime	No	
SecondGoodThroughDate	DateTime	No	
SecondPaidDate	DateTime	No	
ThirdEstimated	Bool	No	
ThirdInstallment	Decimal	No	Third installment amount.
ThirdPartiallyPaidAmount	Decimal	No	
ThirdPartiallyPaid	Bool	No	
ThirdPaid	Bool	No	
ThirdDue	Bool	No	
ThirdDelinquent	Bool	No	
ThirdTaxesOutDate	DateTime	No	
ThirdDiscountDate	DateTime	No	
ThirdDueDate	DateTime	No	
ThirdDelinquentDate	DateTime	No	

ThirdGoodThroughDate	DateTime	No	
ThirdPaidDate	DateTime	No	
FourthEstimated	Bool	No	
FourthInstallment	Decimal	No	Fourth installment amount.
FourthPartiallyPaidAmount	Decimal	No	
FourthPartiallyPaid	Bool	No	
FourthPaid	Bool	No	
FourthDue	Bool	No	
FourthDelinquent	Bool	No	
FourthTaxesOutDate	DateTime	No	
FourthDiscountDate	DateTime	No	
FourthDueDate	DateTime	No	
FourthDelinquentDate	DateTime	No	
FourthGoodThroughDate	DateTime	No	
FourthPaidDate	DateTime	No	

### ReceiveSearchDataBookPage element

Field Name	Type	Required	Description
BookPageID	Int	No	ID of the book/page on the local system.
ReferenceID	Int	No	ID of the parent element: LienID, RequirementID, EasementID, RestrictionID or ChainOfTitleID.
BookPageSourceTypeID	Int	Yes	BookPageSourceTypeID of the book/page. The list of BookPageSourceTypeID's are maintained on the remote system.
Book	String	No	
Page	String	No	
SortOrder	Int	No	

### ReceiveSearchDataResponse element

Field Name	Type	Required	Description
ResponseCode	<a href="#">ReceiveSearchDataResponseCode</a>	Yes	Encapsulates information about success or failure of the method call.
Message	String	Yes	More detailed explanation of why the method call may have failed.

### ReceiveSearchDataResponseCode Enumeration

Name	Value	Description
SUCCESS	0	Returned when data was added/updated successfully.
INVALID_LOGIN	1	Returned when the login credentials were incorrect.
INVALID_FILE_NUMBER	2	Returned when the file number could not be found in the system.
DOWN_FOR_MAINTENANCE	3	Returned when ResWare is down for maintenance (being upgraded).
UNEXPECTED_ERROR	4	Returned when an unexpected error occurs. The Message returned will contain more information.
SEARCH_DATA_ERROR	5	Returned when search data could be not added for some reason. The returned Message will have more details.
LIEN_ERROR	6	Returned when liens could not be added for some reason. The returned Message will contain more details.
REQUIREMENT_ERROR	7	Returned when requirements could not be added for some reason. The

		returned Message will contain more details.
EASEMENT_ERROR	8	Returned when easements could not be added for some reason. The returned Message will contain more details.
RESTRICTION_ERROR	9	Returned when restrictions could not be added for some reason. The returned Message will contain more details.
CHAIN_OF_TITLE_ERROR	10	Returned when chain of title items could not be added for some reason. The returned Message will contain more details.
TAX_ERROR	11	Returned when taxes could not be added for some reason. The returned Message will contain more details.

## Send Process

Search data from the local file is sent via XML when:

- A user is on the XML tab and selects the "ResWare: Send Search Data" XML Message and clicks the "Send XML" button.
- An action task affect has been set up to send the " ResWare: Send Search Data" XML message on the start/complete task of an action and the action is started/completed.

## Data Sent

This service will send the following search data from the Search Data tab of a local file:

- Proposed Insured
- Vesting
- Parcel ID
- Legal
- Commitment Effective Date
- Interest
- Leasehold
- Liens/Requirements/Easements/Restrictions
  - ID of the item on the local system. To be stored on the remote system as a "remote ID".
  - ID of the item type on the remote system. From the partner item type mapping on the local system.
  - Name of the item type on the local system. For third party systems not using the item type ID mapping (above).
  - Plus all other fields that make up the item, including both the language template and populated language.
- Chain of Title
  - ID of the chain of title item on the local system. Stored on the remote system as a "remote ID".
  - Plus all other fields that make up the chain of title item.
- Taxes
  - ID of the tax on the local system. To be stored on the remote system as a "remote ID".
  - ID of the tax type. This is a tax type ID enumeration that will be the same on both the local and remote ResWare systems.
  - Name of the tax type. For third party systems not using the tax type ID enumeration (above).
  - Plus all other fields that make up the tax.

This service will also send the following primary property data from the Edit Property panel of a local file:

- Year Acquired
- Assessed Land Value
- Assessed Improvement Value



If no search data exists on the file, no data will be sent. So, for example, if there is no search data on the file but there is a primary property, no data will be sent.

For a lien/requirement/easement/restriction item, both the language template and populated language will be sent. This is because, while only the language template is needed in ResWare to ResWare, if an external third party system is receiving search data, they may only need the populated language.

This service will not send the following search data from the Search Data tab. This data is not sent either because it doesn't make sense to send it or the receiver should either already have this data, or the data shouldn't really be automatically overwritten on the remote file.

- Loan Amount
- Loan Number
- Typed Date
- First Mortgagee
- Second Mortgagee
- Property Address
- Client's Comments/Special Instructions

## Receive Process

When the search data XML is received on the remote file:

- Add a note that will include information about specifically what search data was:
  - Added (if didn't already exist)
  - Updated (if already exists and overwritten)
  - Not updated (if already exists and not overwritten)
- Fire an external trigger called "XML: Search Data Updated". This trigger can be used to affect the file by marking an action started/completed, create an action or group, or setting a value.
  - If an action is marked started/completed or an action is created as result of the trigger being fired, associate the note (above) to the action.

## Data Received

This service will receive the following search data for the Search Data tab of a remote file:

- Proposed Insured (Don't Overwrite\*)
- Vesting (Don't Overwrite\*)
- Parcel ID (Don't Overwrite\*)
- Legal (Don't Overwrite\*)
- Commitment Effective Date (Don't Overwrite\*)
- Interest (Don't Overwrite\*)
- Leasehold (Don't Overwrite\*)
- Liens (Add/Overwrite\*\*)
- Requirements (Add/Overwrite\*\*)
- Easements (Add/Overwrite\*\*)
- Restrictions (Add/Overwrite\*\*)

- Chain of Title (Add/Overwrite\*\*)
- Taxes (Add/Overwrite\*\*)

This service will also receive the following primary property data for the Edit Property panel of a remote file:

- Year Acquired (Don't Overwrite\*)
- Assessed Land Value (Don't Overwrite\*)
- Assessed Improvement Value (Don't Overwrite\*)

For a lien/requirement/easement/restriction item:

- When the item is first added, the ID of the item on the local system will be stored on the remote system as a "remote ID". If data for the same item is received again, and a match can be made on the remote ID, then the data for the existing item will be updated with any new data. If a match on the remote ID cannot be made, then a new item will be added to the remote file.
- The office option "XML: Search Data: Use local language template instead of remote language template" is used to determine the language template that will be used in the remote file when an item is added/updated.

\* Don't Overwrite: Existing data in the remote file will NOT be overwritten with data being received. This data is added only if it doesn't already exist in the remote file.

\*\* Add/Overwrite: Existing data will be overwritten with any data being received. This data is always added in the remote file.