



# Invoice Cloud Integration

**Govern V6 Integration**

308-iCloud

**Release 6.0**

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## Invoice Cloud Integration

### Overview

Govern's Invoice Cloud integration provides an invoice presentation / payment solution using Invoice Cloud. With Invoice Cloud integration Govern users have 24/7 access to online bills and flexible payment options that include all major credit/debit cards and Electronic Checks (eChecks).

### What's New

The Invoice Cloud Invoice batch process creates invoices based on the whole file and not based on a cycle that may have different billing dates. This is also the case for the Invoice Cloud Balance batch process. When there is a need to accommodate an additional invoice type, a type ID can be used, as an example, mobile homes which could be assigned a an InvoiceTypeID of 44 as an example.

The two (2) Govern batch processes that are associated with the Invoice Cloud process for *Real Property* and *Personal Property* modules have been modified to allow them to identify required InvoiceTypeID's that match with AR Cycle codes for Real Property (RE) and Personal Property (PP). See [Modifications](#) and the [APPENDIX](#) section below for additional details.

### Configuration

For a successful Govern/Invoice Cloud integration process the following components are required:

- Internet Access to the Invoice Cloud Web Site
- Govern's WCF A/R Web Service is typically installed in the organizations network DMZ. This may be installed on the same server that is hosting the eGovern – Public Self Service Portal
- FTP Server access to the Invoice Cloud FTP site. This allows the billing and balance files that are generated from the Govern Scheduler batch process to be sent directly to the Invoice Cloud.
- *Optionally these processes can be scheduled to be run overnight.*

### Installation of Web Services

#### Invoice Cloud Web Service (Release 5.1/6.0)

To install the following are the installation steps for the Invoice Cloud Web Service:

1. Deploy the Release 5.0.9 of the Resources Files.
2. Install and configure the WCF Accounts Receivable API [Filename: WCFAccountsReceivableAPI.zip].

#### Steps specific to release 5.0/5.1 – (Not required for release 6.0)

3. Modify the **web.config** file to use the GoverNetConfig.xml of the deployment [Location: In the root of the specific deployment folder]

4. When installing Release 5.1 of the web service, administrators will need to manually create the following table in (Table: NA\_NAMES: WEBPROFILEACCESSRT (**smallint**, allow **NULL**). This field was added to provide support for the eGov and is used in the business rules of the Names.

**NOTE:** The above steps 3 and 4 are not required when installing release 6.0 of Invoice Cloud. The action in these steps have been incorporated into the Verify Database process that is launched in the Govern New Administration (GNA)

## Verification of the Service

The WcfTestClient.exe application is used to test the web service. This application can be obtained on the Govern FTP site or from Govern Technical Support: WCF Test Application.zip. For additional details regarding testing Govern Web Services

## Option(s)

- Paperless option in the bill printing program to exclude paperless bills from printing.

**NOTE:** A PDF file containing all bills is sent to **Invoice Cloud** after each billing cycle.

## Preprocess

1. End-user bills are processed in Govern.
2. A .PDF copy of the bill is generated in Govern; this bill is manually pushed to **Invoice Cloud** through FTP.
3. The Govern System generates a .CSV invoice for the Invoice Cloud system; this file is automatically sent through FTP to **Invoice Cloud**.
4. Govern generates a balance as a .CSV file; this file is also sent through FTP to **Invoice Cloud**.

## Main Process

1. The end user logs on through the eGovern portal.
2. A search is performed for an account, e.g., Utility Billing, Personal Property, or Real Estate.
3. A customized report is displayed; embedded in the report is a payment settlement link to the **Invoice Cloud** Web Site. A click on the embedded Payment link takes the user to the **Invoice Cloud** Web Site.
4. The user is presented with the account information and can select what to pay.
5. Payment is effected through the **Invoice Cloud** system.

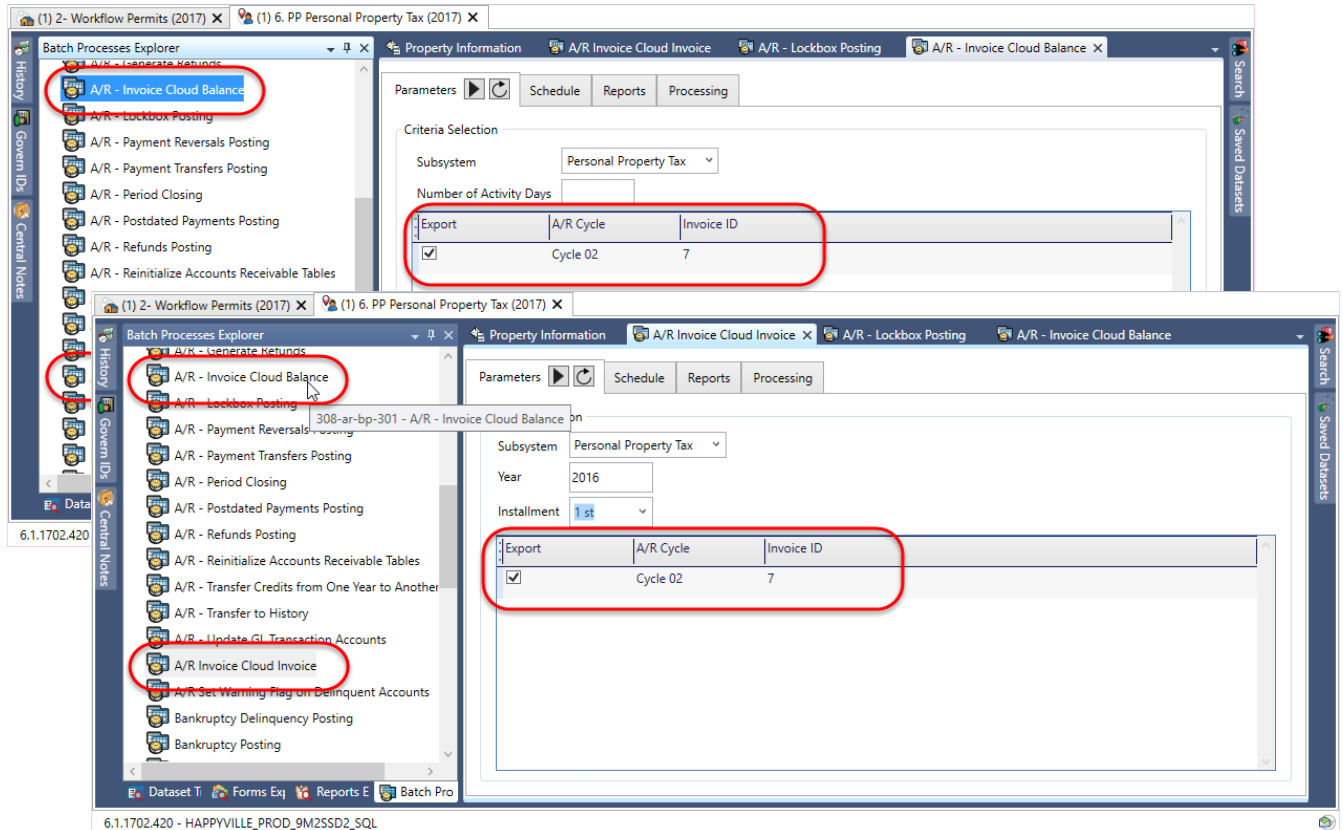
## Payment Process

When payment is effected through Invoice Cloud, two (2) actions occur through the Govern Web Service.

1. Invoice Cloud calls the A/R Web service using the **GetBalance** method.
2. Another call is made to the Govern System to register the payment information using the **PayInvoice** method.

**NOTE:** Refer to the **MS Govern WCF Account Receivable Service API** document for details about the `GetBalance()` and `PayInvoice()` methods.

## Modifications



## User Interface Modifications

The user interface for the two batch processes have been modified to provide the user with additional options. The billing code fills in for the respective sub system, and the user is able to change the Invoice ID for the export with a click in the Invoice ID column in the Criteria Selection grid.

## Batch Process Changes

Modifications were made to the functioning of the Invoice, and the Balance batch processes.

Changes were made to adhere to the following business rules:

### Business Rules

- If the year or subsystem is changed by the user, a query is run.
- If the user changes either the year or subsystem, then all A/R cycles are checked.

## APPENDIX

### Changes to the Invoice batch process

A cycle code is required in OpenForms for Real Property and Personal Property, and with the understanding that future clients may go to Invoice Cloud with different invoice types, the following customizable solution was implemented. The invoicetypeID is hardcoded to cycles.

- For the year selected the distinct values for the sub system and year selected were found. There is a need to associate an InvoicetypeID to an AR Cycle for Real and Personal Property.

#### Select Statement

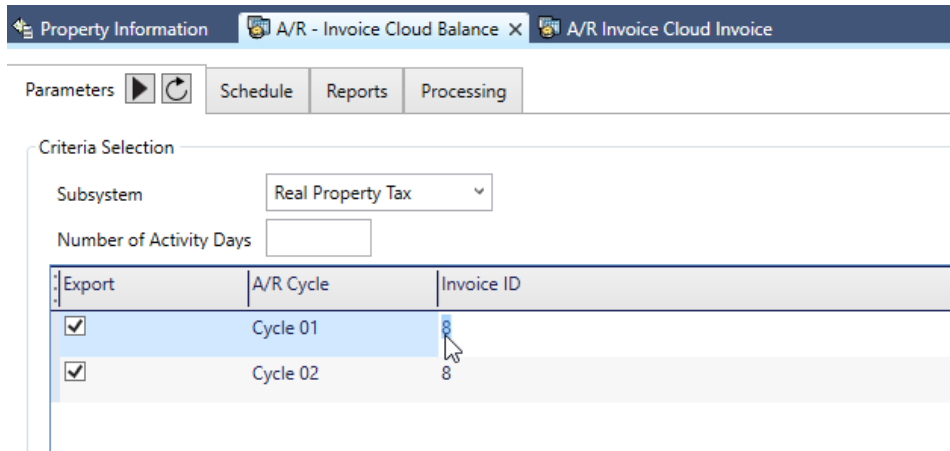
```
select distinct cycle_code, SHORT_DESC_EN from ar_parm_class a left join vt_user b on
a.CYCLE_CODE = b.code and b.table_name = 'arcycle' where a.year_id = 2016 and
sub_system = 're'
```

where...

MH      Manufactured Homes

RP      Real Property

- Once the options are found all are checked; the user can optionally uncheck them.



Property Information   A/R - Invoice Cloud Balance   A/R Invoice Cloud Invoice

Parameters   Schedule   Reports   Processing

Criteria Selection

Subsystem: Real Property Tax

Number of Activity Days:

Export	A/R Cycle	Invoice ID
<input checked="" type="checkbox"/>	Cycle 01	8
<input checked="" type="checkbox"/>	Cycle 02	8

**NOTE:** The billing code fills in for the Subsystem in question. The user is able to change the invoice id for this export.

- If the user changes the year or subsystem, the same query should be run.
- If the user changes either the year or subsystem, then all AR cycles should be checked.

### Changes to Balances batch process

The same principle applies for the balances where the invoice ID will need to be associated with an A/R Cycle.