March 27, 2023

From: Bernie Adams, Systems Integration Specialist

To: Allen Gulick, ASPIS

Subject: Change Order for GSU – Visitor Passes and PERCS to SmartPark (REVISED)

This requested change order is for changes to the Visitor Pass reservation interface (VPSP) and for the PERCS to SmartPark interface. For the PERCS to SmartPark (PERCS-SP), Transact to SmartPark (TTSP) and SmartPark to Transact (SPTT) interfaces, GSU desires to be able to specify the SmartPark company to be assigned to each permit/monthly. Currently all interfaces utilize a Company default for all additions and updates.

And an additional field to the PERCS-SP interface to be used to identify blacklisted PERCS permits and set the associated Monthly MType to blocked.

The Visitor Pass to SmartPark (VP-SP) interface will require the ability to specify the SmartPark company to be assigned to each e-Reservation in SmartPark. Also, the designation of the VP permit type will translate into an Access Profile in SmartPark, similar to how it is applied in the PERCS-SP interface.

Detailed below will be the statement of work to effect the changes requested. It will be followed by the cost for these changes.

**PERCS to SmartPark (PERCS-SP) - Revised**

Currently PERCS-SP receives change files from PERCS on a periodic basis. PERCS-SP processes those files as they are received. In all cases, new permits and changes to existing permits affecting monthlies in SmartPark are assigned to a singular Company named ‘Panther Cards’. It does not take into consideration if the permit from PERCS is for an employee, a semester student, for a student that desires to use Panther Cash to pay for parking per use, etc. or if the permit is on the blacklist.

The change will allow GSU to be able to group the permits/monthlies into company names that better reflect their actual usage/category. It has an added benefit to allow for more concise reporting. The change requires coordination with Omniq, GSU and ASPIS to properly configure, define and setup the companies in both PERCS and SmartPark. NOTE - The Company ID (also known as the Accounting ID) must be unique to each Company, can be alpha-numeric and must not exceed 25 characters.

The second change related to the PERCS blacklist will allow the blocking of the monthlies in SmartPark while the PERCS permit is on the blacklist. And the reset of the monthly once they have been removed from the list.

PERCS will be required to add two new fields to the end of each row of data in the interface file. Currently, the data exported from PERCS per new/changed permit is:

"CARD NUMBER","ISO CARD NUMBER","FIRST NAME","LAST NAME","PERMIT TYPE","PANTHER CASH","START DATE","EXPIRY DATE","PERSON TYPE","LICENSE PLATE","MODEL DESC","COLOR DESC","EXEMPT"

"002658090","6017080026580902","Sierra","McGill","14","1","03/08/2022","12/31/2099","Student","LAVELLE","accord","BLACK","NO"

"7777770000000010","7777770000000010 ","509-0258","POLICE VEHICLE", "3", "0", "01/01/2022", "01/01/2099", "Employee", "GV11893", "IMPALA", "BLACK","YES"

PERCS will add new fields to the end of the exports: field 1 - denote the SmartPark company ID (accounting ID) to be assigned to the permit and field 2 - to designate if a PERCS permit is on the blacklist and thus a need to block the monthly in SmartPark. The expected new format is as follows:

"CARD NUMBER","ISO CARD NUMBER","FIRST NAME","LAST NAME","PERMIT TYPE","PANTHER CASH","START DATE","EXPIRY DATE","PERSON TYPE","LICENSE PLATE","MODEL DESC","COLOR DESC","EXEMPT",”COMPANY”,”BLACKLIST”

"002658090","6017080026580902","Sierra","McGill","14","1","03/08/2022","12/31/2099","Student","LAVELLE","accord","BLACK","NO"

"7777770000000010","7777770000000010 ","509-0258","POLICE VEHICLE", "3", "0", "01/01/2022", "01/01/2099", "Employee", "GV11893", "IMPALA", "BLACK","YES",”EMPLOYEE”,”YES”

The PERCS-SP interface modification will operate such that it will recognize when the new (14thand 15th) columns is added. With this intelligence, the coordination of the change to PERCS import file and the implementation of this feature will not be critical. The change to current processing in the PERCS-SP interface is detailed below.

Currently the PERCS-SP interface is expecting 13 data elements per row of data. Any variance to that field count and the row is rejected as being malformed. The interface will be changed to recognize up to 15 elements per row of data. If there are 15 elements in a row, it will be assumed that the 14th field is denoting the Company ID and the 15th field denoting is the permit is on the PERCS blacklist. Otherwise, the default Company ID is used and the MType will be set to 2 = standard.

For the new “COMPANY” field: The change will affect the setting of the value of the Company ID in the Smart Park update monthly API command. The current PERCS-SP interface sets all records to a default Company ‘Panther Cards’ with a Company ID of ‘99’.

A new setup item in PERCS-SP will be defined to be able to select the default Company ID from a list of Companies with defined accounting id (company ID). The current program utilizes a simple text box with no checking for validity.

Receiving a value passed in the “COMPANY”: if the value is blank, the default Company will be used. If the value is not a known Company ID, the default Company will be used. Otherwise, the passed PERCS Company ID value is used in the update monthly API command sent to Smart Park.

The interfaces for SmartPark to Transact (SPTT) and for Transact to SmartPark (TTSP) will be affected by this change. Like PERCS-SP, a new setup item will be required to allow the selection of the default Company ID in place of the current simple text box.

For the new “BLACKLIST” field: The change affects the setting of the value of MType in the Smartpark update monthly API command. The current PERCS-SP interface sets all record to a default of “standard”.

Receiving a value in the “BLACKLIST” field: if the field value is blank or a value other than “YES”, the MType will be set to ‘2’ = standard. If the value is “YES” then the MType field will be set to ‘0’ = blocked.

Estimated Cost for PERCS-SP/SPTT/TTSP Company Change: $2,500.00

**Visitor Passes (VP-SP)**

The VP-SP interface receives change files from PERCS on a periodic basis. VP-SP processes those files as they are received. In all cases, new visitor passes and changes to existing visitor passes affecting eReservations in SmartPark are assigned to a default Company, and default Access Profile, regardless the origin of the VP from PERCS.

The change will allow GSU to be able to organize the VPs into Companies and Access Profiles to better reflect their actual usage/category. It also has an added benefit to allow for control over where a VP can be used, more concise reporting and easier bill-back of VPs issued. The change will require coordination with Omniq, GSU and ASPIS to properly configure, define and setup the permit type/Access Profiles and Companies in both PERCS and SmartPark. NOTE - the Company ID must be unique to SmartPark, can be alpha-numeric and must not exceed 25 characters.

PERCS will add the feature to allow the specification of the entity that is issuing/responsible for the Visitor Pass and the permit type/Access profile to define where the VP can be used. This action will require two new fields added to the end of each row of data created in the interface file. Currently, the VP data exported from PERCS per new/changed VP is:  
“Res Num”, “Valid From”, “Valid To”, “Barcode”, ”First name”, “Last Name”, “Plate”, “Product Type”

230410124, 2023-04-10 00:00:00, 2023-04-10 23:59:59, 74591572304101244, “Bernie”, “Adams”, “MT3204”, 1

PERCS will add the new fields to the end of the exports denoting the permit type/Access Profile for limiting usage and the SmartPark company ID (accounting ID) to be assigned/responsible for the VP. The suggested new format is as follows:

“Res Num”, “Valid From”, “Valid To”, “Barcode”, ”First name”, “Last Name”, “Plate”, “Product Type”, “Permit Type”,“Company”

230410124, 2023-04-10 00:00:00, 2023-04-10 23:59:59, 74591572304101244, “Bernie”, “Adams”, “MT3024”, 1, 14, ”ENGINEERING”

Two new setup features will be added to VP-SP: Load a list of the valid Access Profiles from SP to use to select the Access Profile default and load a list of the Companies from SP (with a defined account ID) to use to select the Company default. The VP-SP interface modification will operate such that it will recognize when the format of the import file has changed (new columns added). With this intelligence, the coordination of the change to PERCS import file and the implementation of this feature will not be critical. The change to processing in the VP-SP interface is detailed below.

The changes affect the setting of the value of the Company ID and the Access Profile in the Smart Park insert/update e-Reservation API command. The current design sets the Company ID and Access Profile to defined default values. Also, VP-SP program is expecting 8 data elements per row of data. Any variance to that field count and the row is rejected as being malformed.

The VP-SP interface process will be changed to recognize up to 10 elements per row of data. If the data row contains 8 elements, processing is as before - the Company ID and Access Profile are set to the specified defaults. If there are 10 elements in a row, VP-SP will assume the 9th field denotes the Permit Type/Access Profile and the 10th field denotes the Company ID.

For data received in the Permit Type (9th) field: if the value is blank, the default Access Profile will be used. If the value is not a known Access Profile ID, the default Access Profile will be used. Otherwise, the passed PERCS Permit Type value is used for the Access Profile ID in the eReservation add/update API command sent to Smart Park.

For data received in the Company (10th) field: if the value is blank, the default Company will be used. If the value is not a known Company ID (accounting ID), the default Company will be used. Otherwise, the passed PERCS Company ID value is used for the Company ID in the eReservation add/update API command sent to Smart Park.

Estimated Cost for VP-SP Company Change: $1,250.00

CHANGE-ORDER SUMMARY – MARCH 10, 2023

|  |  |
| --- | --- |
| Item | Cost |
| PERCS-SP/SPTT/TTSP Company Change | $2,500.00 |
| VP-SP Company Change | $1,250.00 |
| TOTAL CHANGE ORDER | $3,750.00 |