

## Sequential numbers

In order to create a sequential (study-)number for each new respondent, you need to create you own respondent controller.

Please see the [howto](#) page first, on how to do that.

In the code below, you will see three functions in this controller:

- `beforeSave`, which will check the respondent number just before saving it
- `createModel`, which uses the parent model and creates the new respondent number using an extra variable for organization id
- `getRespNr`, which uses the organization ID, gets the latest respondent number for that organization and returns the next respondent number

```
class RespondentController extends Gems_Default_RespondentAction
{
    /*
     * default value for respnr needed before validation of form
     */
    public function createModel($detailed, $action) {
        $model = parent::createModel($detailed, $action);

        $orgcode = $this->loader->getOrganization()->getCode();
        $model->set('gr2o_patient_nr', 'default',
$this->getRespnr($orgcode));

        return $model;
    }

    /*
     * get new studynr if needed and display appropriate message
     */
    public function beforeSave(array &$data, $isNew, Zend_Form $form = null)
    {
        If ($isNew) {

            //MUtil_Echo::track($data);
            $orgcode =
$this->loader->getOrganization($data['gr2o_id_organization'])->getCode();

            $respNr = $this->getRespNr($orgcode);

            if ($data['gr2o_patient_nr'] !== $respNr) {
                $this->addMessage(sprintf($this->_('Studynumber changed from
```

```
%1$s to %2$s!'), $data['gr2o_patient_nr'], $respNr));
    }else{
        $this->addMessage(sprintf($this->_('Studynumber %s
assigned!'), $respNr));
    }

    $data['gr2o_patient_nr'] = $respNr;
}
return true;
}

/*
 * This function will get the next studynumber for the current
organization
 * use gor_code that can be set in the organization interface
 *
 */

protected function getRespNr($orgcode)
{
    $orgcodelength = strlen($orgcode);

    $sql = "SELECT CAST(substr(`gr2o_patient_nr`, $orgcodelength+1) AS
UNSIGNED) AS mynr, `gr2o_patient_nr`
FROM `gems__respondent2org`
WHERE `gr2o_patient_nr` LIKE '$orgcode%'
ORDER BY mynr DESC LIMIT 1;";

    /*
 * This can result in different organisations having identical
respnrns if you use orgcodes like A, AB, AC or N, N1, N3, etc !
 * It depends on your situation if this is a feature or an unwanted
option.
 * If unwanted you should change this code to fit your needs.
 * Please note that this is not a problem for Gemstracker as it keeps
track of the patient and organization ids.
 */

    $value = $this->db->fetchRow($sql);
    $nr = $value['mynr'];
    $nr++;
    $respnr = $orgcode.sprintf('%04d', $nr);

    //MUtil_Echo::track($respnr);

    return $respnr;
}
```

}

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