



# SW6000 User Manual

## CDA Personalized

User guide for Shure SW6000 Conference Management Software  
Version: 9.2 (2021)

---

# Table of Contents

<b>1</b>	<b>Introduction</b> .....	<b>4</b>	7.1	HorizontalLine, VerticalLine .....	19
1.1	Licensing .....	4	7.2	Image .....	19
<b>2</b>	<b>CDA Configuration   CDA Screen Configuration   Personalized CDA Screens</b> .....	<b>5</b>	7.3	MessageViewer .....	20
2.1	Purpose .....	5	7.4	MicrophoneList .....	20
2.2	CDA Screen Definition .....	5	7.5	RemainingRequestTime .....	20
<b>3</b>	<b>XML description</b> .....	<b>6</b>	7.6	Conference Variables .....	21
3.1	Syntax .....	6	7.7	Text .....	22
3.1.1	Screen .....	6	7.7.1	Content properties .....	22
3.1.2	Controls .....	6	7.7.2	View properties .....	22
3.1.3	Comments .....	6	7.7.3	Layout properties .....	22
3.1.4	Help .....	6	7.8	Manual Clock .....	22
<b>4</b>	<b>Screen elements</b> .....	<b>7</b>	<b>8</b>	<b>Skin colors and styles</b> .....	<b>23</b>
4.1	Screen margin .....	7	<b>9</b>	<b>Advanced objects' properties</b> .....	<b>24</b>
4.2	Grid definition .....	7	9.1	2D position properties .....	24
4.2.1	Grid definition example .....	8	9.2	3D position properties .....	24
4.3	Row and column priorities .....	9	9.3	Mimic item-level properties .....	25
4.3.1	Priority example .....	9	9.4	Chart control-level properties .....	25
4.4	Placement of Controls .....	10	9.5	Chart item-level properties .....	25
4.5	Controls Definition .....	10	<b>10</b>	<b>Data tables</b> .....	<b>26</b>
4.5.1	Control parameters .....	10	10.1	Supported controls .....	26
<b>5</b>	<b>Formatted and list controls</b> .....	<b>11</b>	10.2	ItemFormat fields .....	28
5.1	ItemSize .....	11	10.3	HeaderFormat fields .....	33
5.2	ItemFormat .....	11	10.4	Default value notes .....	33
5.2.1	Field names .....	11	<b>11</b>	<b>Interpretation display</b> .....	<b>34</b>
5.2.2	Field options .....	12	11.1	Interpretation Channels List .....	34
5.2.2.1	Width .....	12	11.1.1	Item format .....	34
5.2.2.2	Align .....	12	11.2	Interpretation booth list .....	36
5.2.2.3	Format .....	12	11.2.1	Item format .....	37
5.2.2.4	Overflow .....	13	11.2.1.1	No Interpretation is on-going: .....	38
5.3	HorizontalContentAlignment, VerticalContentAlignment .....	14	11.2.1.2	Russian Floor (1) .....	39
<b>6</b>	<b>List definition</b> .....	<b>15</b>	11.2.1.3	Russian Floor (2) .....	40
6.1	ColumnCount, ColumnPadding .....	15	11.2.1.4	Russian Floor (3) .....	41
6.2	AlternationCount .....	15	11.2.2	CDA skin settings .....	41
6.3	ShowHeader, HeaderFormat, HeaderTextId .....	15	<b>12</b>	<b>Personalized displays, examples</b> .....	<b>42</b>
6.4	ListViewType .....	15	12.1	Agenda .....	42
6.5	AutoScroll .....	16	12.1.1	Agenda and Speakers .....	42
6.6	SortDescriptor .....	16	12.1.2	Agenda and Speakers with Picture .....	43
6.6.1	Filter option .....	16	12.1.3	Agenda and Speakers, Picture latest speaker .....	44
6.6.2	Order option .....	16	12.1.4	Agenda, Speakers and Mimic .....	44
6.6.3	GroupBy option .....	17	12.1.5	Agenda, Speakers and Mimic with lines .....	46
6.6.4	Vote result table filter .....	17	12.1.6	Long Description, Speakers .....	47
6.7	GroupHeaderFormat .....	17	12.1.7	Long Description, Speakers, Group Time .....	48
6.8	ItemsToSkip .....	18	12.1.8	Short Description, Speakers .....	49
6.9	MaxItemsBefore .....	18	12.2	Speakers .....	50
<b>7</b>	<b>Simple controls</b> .....	<b>19</b>	12.2.1	Speakers, Requests and Group .....	50
			12.2.2	Speech Time Display .....	51
			12.2.2.1	Speaker Stand .....	51

---

12.2.2.2	First Speaker .....	51	12.3.3	Voting, Group result .....	57
12.2.2.3	Latest Speaker .....	51	12.4	Conference Variables.....	58
<b>12.2.3</b>	<b>Sub-title for chroma key .....</b>	<b>52</b>	12.5	Interpretation Channels .....	59
12.2.3.1	Speaker, Seat Comments .....	52	12.6	Interpretation booth with channel list ..	60
12.2.3.2	Speaker, Agenda Title Line .....	53	12.7	Interpretation booth, Sign at booth, Horizontal .....	61
12.2.3.3	Speaker, Agenda Title .....	53	12.8	Interpretation booth, Sign at booth, Vertical.....	61
12.3	Voting .....	54			
12.3.1	Voting, List and Individual .....	55			
12.3.2	Voting, Individual result .....	56			

# 1 Introduction

The CDA Conference Display Application is an application in the SW6000 suite of applications designed to show various displays for a large audience like:

- Microphones (Speakers and speak request lists)
- Microphone mimic diagram (Speakers and speak request)
- Voting results (in list form, graphically, pie chart, mimic and individually)
- Agenda
- Logged in participants

The presentation is normally done by feeding the VGA signal from the PC running the CDA application to a large screen projector placed inside the meeting room or hall.

The CDA application has when used in the meeting no user interface. Setup of the displays on the CDA applications is done in the CAA application and the selection of the display to show is done in the CUA application.

This manual describes the options for making personalized CDA screens.

## 1.1 Licensing

The CDA application is not included in SW6000 Software (basic), but is licensed separately, one license is needed for each active instance.

## 2 CDA Configuration | CDA Screen Configuration | Personalized CDA Screens

### 2.1 Purpose

The purpose of this screen is to allow client-side personalized displays, The editing is simple, not using special tools. The definition is essentially a small text file.

### 2.2 CDA Screen Definition

The 'Personalized CDA screen' window is opened by selecting the [Edit] – 'Personalized CDA screen' button in the 'CAA|Setup|Configuration|CDA screen configuration' window.

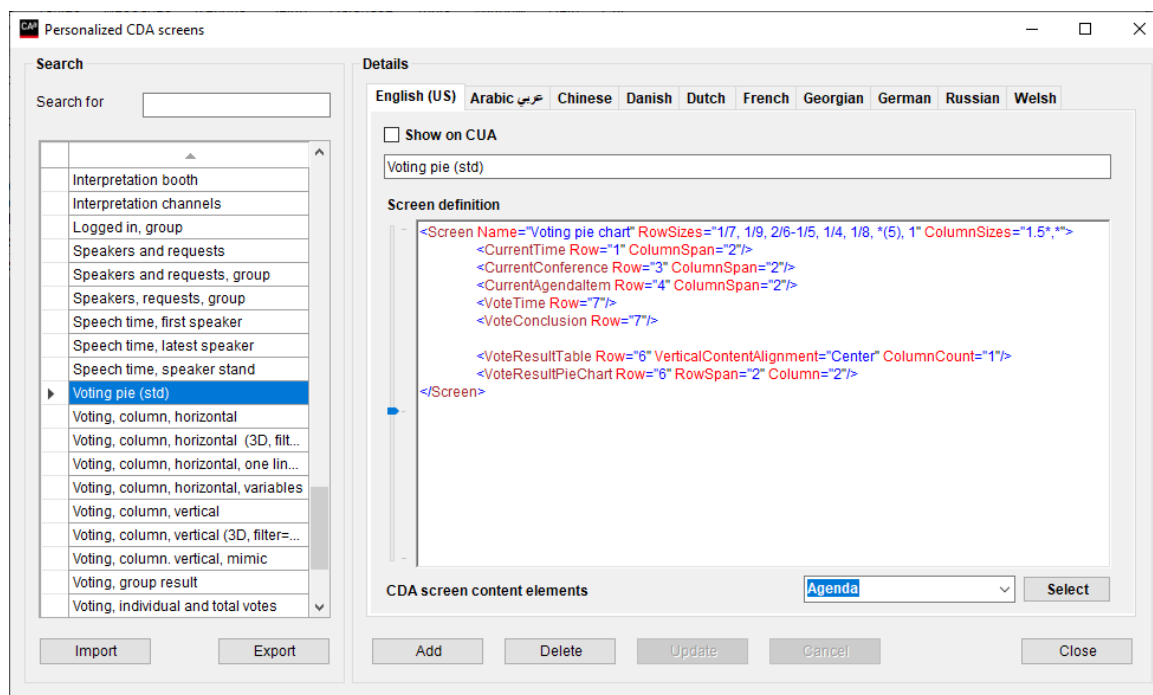


Figure 2.2-A

<b>Name</b>	Screen name. The name is shown in CAA and CUA
<b>Screen definition</b>	Window for typing or pasting screen definitions. The screen definitions are defined as XML elements. Refer to the next chapters for details
<b>'Slider'</b>	Slider to the left of the 'Screen Definition' window to adjust the font size in the 'Screen Definition' window
<b>CDA screen content elements</b>	Dropdown window for selecting controls to be inserted in the Screen definition window

## 3 XML description

### 3.1 Syntax

A screen definition consist of three types of elements:

- Screen Definition
- Controls
- Comments

#### 3.1.1 Screen

The main element in the screen definition is Screen. It has the following attributes:

- Name – screen name
- Margin – margin in pixels, default is 1/18 of the screen size
- ShowGridLines – a development flag for showing cell divisors (False/True), defaults to “False”
- RowSizes – row sizes definition string, defaults to “\*”
- ColumnSizes – columns sizes definition string, defaults to “\*”

Attributes for the RowSizes and ColumnSizes are described in chapter ‘5.2 Grid Definition’.

All parameters are optional.

#### Syntax Example

```
<Screen Name="Agenda" RowSizes="1,*,*" ColumnSizes="*,0.5,*" ShowGridLines="true" Margin="10" |
..
Controls
..
</Screen>
```

#### 3.1.2 Controls

The Controls are defined as XML elements inside Screen. Attributes for the controls are described in Table 1.

#### 3.1.3 Comments

Comments can be placed in the Screen Definition. A comment will not be executed but is useful when creating screens.

#### Syntax Example

```
<!--
This is a comment
-->
```

#### 3.1.4 Help

A help function is available for all controls. When the help function is invoked the CDA screen will show the valid properties for the control.

#### Syntax Example

```
<ConferenceVariable Help=""/>
```

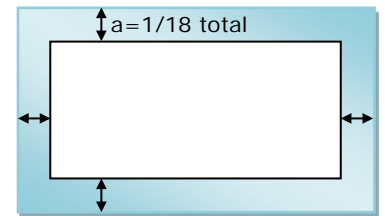
## 4 Screen elements

### 4.1 Screen margin

From the available CDA screen space a margin is subtracted. The margin thickness is by default 1/18 of the screen height.

The rectangle within that margin is divided into a grid, where the elements should be placed.

Refer to section '4 Syntax' for setting the margin.



### 4.2 Grid definition

The main unit of grid layout is a unit, retrieved by dividing the grid size (height or width) by a certain number. The default number is 16 for both dimensions. The actual values depend on the CDA in question (defined in the CAA, Setup/Equipment/Meeting Displays, 'Grid Units') and not on the meeting. The unit indirectly defines the font size used throughout the application.

This grid is then divided into a number of logical elements (rows and columns).

- RowSizes – row sizes definition string, defaults to "\*"
- ColumnSizes – columns sizes definition string, defaults to "\*"

The rows and columns sizes can be defined as:

- Absolute in pixels – e.g. 300 pixels (syntax: "300px"). Should not be used, unless really needed.
- Absolute in units – e.g. 2 units (syntax: "2"). The font size is so one text line fits well into one unit.
- Relative – the space left is divided into parts. E.g. if two rows shall have their heights in ratio 1:2, one needs to define them as "1\*" (or just "\*\*") and "2\*".
- Auto-fit – the row or column takes as little space as it can (syntax: "Fit"). If this is a column definition, all such columns will have the same width. Not recommended for rows.

If the definition is omitted, it is assumed that only one row/column is needed, with definition "\*".

The visual elements (controls) are then placed in this grid.

### 4.2.1 Grid definition example

To define a logical grid with 5 rows, of which first and last take up 1 unit, second – 2 units, and the other two take up the available room and have 1:2 ratio, the following definition is used: "1,2,1\*,2\*,1".

This definition translates into the following sizes, if we take 10, 16 and 28 row units:

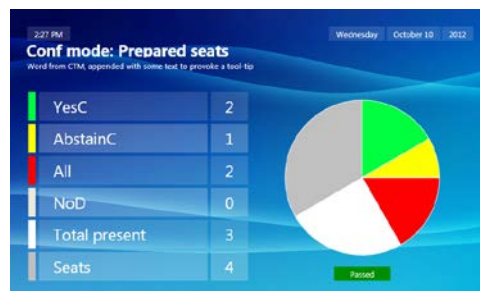
10 units		16 units		28 units	
Real row	Logical row	Real row	Logical row	Real row	Logical row
0	1	0	1	0	1
1	2	1	2	1	2
2		2		2	
3	3	3	3	3	3
4		4		4	
5	4	5	4	5	4
6		6		6	
7	5	7	5	7	5
8		8		8	
9		9		9	
		10		10	
		11		11	
		12		12	
		13		13	
		14		14	
		15		15	
				16	
				17	
				18	
				19	
				20	
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	

The same structure is valid for columns as well.

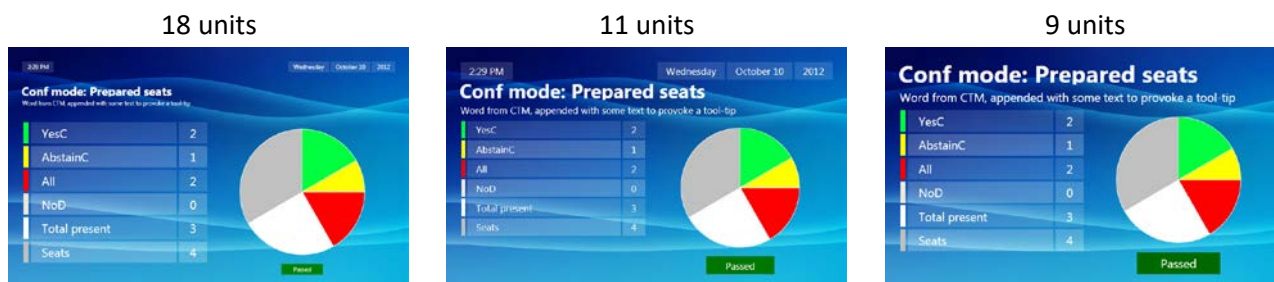
This example produces a simplified Voting Pie Chart page using primary standard settings.

```

<Screen Name="VotingPieChart"
RowSizes="1/7,1/9,1/3,1/2,1/8,* ,1" ColumnSizes="* ,*">
<CurrentTime Row="1" ColumnSpan="0" />
<CurrentConference Row="3" ColumnSpan="0" />
<CurrentAgendaItem Row="4" ColumnSpan="0" />
<VoteResultTable Row="6" RowSpan="2" ItemSize="Auto" />
<VoteResultPieChart Row="6" Column="2" />
<VoteConclusion Row="7" Column="2" />
</Screen>
    
```



Note the row priorities. This screen looks as following with different row units.





### 4.3 Row and column priorities

Each logical element (row or column) has a priority, 1 or larger. Lower number means higher priority, 1 is top priority. If no priority is defined, it defaults to 1.

Each logical grid element also has a minimum size. It is the unit size for unit elements, and minimum size (default 5) for relative (“star”) elements. The pixel and fit types are ignored (minimum size 0).

When the number of grid units goes down, and there is not enough space for the minimum size of all defined logical elements, the lower-priority elements get adjusted, until the screen can fit the required information, or there is nothing more to adjust. None of the top-priority definitions are ever adjusted. If several rows have the same priority, they are adjusted simultaneously.

For each adjusted element an alternative definition is used, if it exists. An unlimited number of alternatives can be defined; each should have a higher priority than the definition it replaces. The default alternative is to have height 0. Note, that the rows are not removed, so the controls are not moved around – they just get shrank or disappear.

#### 4.3.1 Priority example

Example “1/9, 2/6-1/5, \*(4)/3, 1/2, 2\*, 1/9” defines the following elements:

#	Definition	Type and size	Minimum size	Priority	Alternative
1	1/9	1 unit	1	9	Disappear
2	2/6-1/5	2 units	2	6	1 unit with priority 5, then disappear
3	*(4)/3	1 part	4	3	Disappear
4	1/2	1 unit	1	2	Disappear
5	2*	2 parts	5 (default)	1	None (never adjusted)
6	1/9	1 unit	1	9	Disappear

And here is what happens when the number of units is decreasing.

Grid units:	17 units	16 units	15 units	14 units	13 units	12 units	5 units	4 units
<b>Sizes</b>								
Element 1	1	0	0	0	0	0	0	0
Element 2	2	2	2	1	0	0	0	0
Element 3	4	4.33	4	4	4	0	0	0
Element 4	1	1	1	1	1	1	0	0
Element 5	8	8.67	8	8	8	8	5	4
Element 6	1	0	0	0	0	0	0	0
Adjusted priority	∞	9	9	6	5	3	2	2

## 4.4 Placement of Controls

Each cell in this logical grid has two coordinates: row and column. Each coordinate is an integer number 1 to Max.

Each control is placed in the space, occupied by crossing of a number of rows with a number of columns. This rectangle is identified by the left-top cell and the number of rows and columns. By default, the control is 1 row high and 1 column wide.

- Row – row of the top part of the control, mandatory
- Column – column of the left part of the control, optional, defaults to 1
- RowSpan – how many rows the control takes, optional, defaults to 1
- ColumnSpan – how many columns the control takes, optional, defaults to 1; can be 0 meaning “all columns to the right”

### Syntax Example

```
<Screen Name="Agenda" RowSizes="1,*,*" ColumnSizes="*,0.5,*" ShowGridLines="true" Margin="10" >
..
<Agenda" Row="2" RowSpan="2" Column="1" ColumnSpan="0" />
..
</Screen>
```

## 4.5 Controls Definition

A complete list of supported controls is given in Table 1.

### 4.5.1 Control parameters

Some controls require parameters. In this case, each parameter has a name and a value, and these name-value pairs are given in the control definition. Possible parameters are described in Table 1.

## 5 Formatted and list controls

Most of the controls are either formatted controls or list controls. The former controls only show one data item (or nothing), the latter — potentially many items.

Both kinds of controls share a number of properties:

- ItemSize
- ItemFormat
- HorizontalContentAlignment
- VerticalContentAlignment

### 5.1 ItemSize

ItemSize property makes an item larger. It can have one of these values:

- Normal (default) – the height of items is one row unit size.
- Large – the height of items (not list header) is row unit size multiplied 2
- Auto (for lists) – Large is used if all list items can fit with this font, otherwise – Normal.
- Auto (for non-lists) – the height of the control is regulated by its row; the text adjusts to the row height.
- Value – Used for defining the height of an item. The value '1' is one row unit size.

On the image below Speakers list's ItemSize is set to Large, while group list keeps the default.

SPEAKERS	
Liselott Blixt	DF 60 Delegate
GROUP SPEECH TIME	
Venstre	59:02
Dansk Folkeparti	59:00

Figure 2. Normal-size and large-size lists

### 5.2 ItemFormat

ItemFormat makes up the definition of how the item is presented. Item format consists of any number of field definitions. Each field in ItemFormat value becomes a single item (column for lists) in the data representation.

Each field has the following format:

- '[' – opened square bracket
- Field name
- ',' Options (optional set of comma-separated name-value pairs)
- ']' – closed square bracket

#### 5.2.1 Field names

The field names depend on which control is being personalized. Table 2 gives all available fields.

## 5.2.2 Field options

The following options are available:

- Width
- Align
- Format
- Overflow

### 5.2.2.1 Width

By default, all same fields in the same list have the same width, which is just enough to show the largest item in that column. This behavior can be modified by assigning the following values to Width option:

- ItemFit – this field would take up just the space needed to show this very item, not the whole column. As a result, the field width is variable – different on different lines.
- ColumnFit (default for most fields) – this field would take up the space needed to show all items on all visible rows in this column.
- Rest – this field would take up all the space available after all other fields. Although it is technically possible to have more than one field with Rest option, it hardly makes sense. If there are any variable fields in this list definition, the Rest fields may not be of the same size.
- Rest & WidthMultiplier – the Rest property can be combined with WidthMultiplier. This property adjusts the relative size of the columns which are specified with the Rest property.

### Example

`ItemFormat="[VotingState][Text,Width=Rest, WidthMultiplier=3][Result,Width=Rest]"`

Note that if there is only one field in the definition, its default Width is set to Rest, unless explicitly overwritten.

`[Text,Width=Rest][GroupName]`

DELEGATES	
Helge Sander	Venstre
Liselott Blixt	Dansk Folkeparti
Juliane Henningsen	Inuit Ataqatigiit

`[Text,Width=ColumnFit]`

`[GroupName]`

DELEGATES	
Helge Sander	Venstre
Liselott Blixt	Dansk Folkeparti
Juliane Henningsen	Inuit Ataqatigiit

`[Text,Width=ItemFit]`

`[GroupName]`

DELEGATES	
Helge Sander	Venstre
Liselott Blixt	Dansk Folkeparti
Juliane Henningsen	Inuit Ataqatigiit

### 5.2.2.2 Align

Usually there is a default alignment for each field. It can be changed by using Align option. Possible values are Left, Right and Center. For main texts default is Left, for the other fields – Center.

`[Text][GroupName,Align=Left]`

DELEGATES	
Helge Sander	Venstre
Liselott Blixt	Dansk Folkeparti
Juliane Henningsen	Inuit Ataqatigiit

`[Text][GroupName]`

DELEGATES	
Helge Sander	Venstre
Liselott Blixt	Dansk Folkeparti
Juliane Henningsen	Inuit Ataqatigiit

`[Text][GroupName,Align=Right]`

DELEGATES	
Helge Sander	Venstre
Liselott Blixt	Dansk Folkeparti
Juliane Henningsen	Inuit Ataqatigiit

### 5.2.2.3 Format

If some additional text needs to be shown in the field along (or even instead) of the field value, Format option comes handy. Use '{0}' as a value placeholder.

For some controls and fields, one could build a string using '{PropertyName}' in the Format option. Property names often, but not always correspond to ItemFormat fields defined 'Table 1. Supported controls' and 'Table 2. ItemFormat fields'. They are also shown on the CDA screen in case of a mistyped property.

The format should not use characters '{', and '}' for other purposes than described above. Square brackets and commas should be preceded by a backslash ('\['', '\]', '\,', '\,').

**Example 1**

```
<DelegateList Row="2" ItemFormat="[Text][GroupName, Format=-({0})-]"/>.
```

DELEGATES	
Helge Sander	-(Venstre)-
Liselott Blixt	-(Dansk Folkeparti)-
Juliane Henningsen	-(Inuit Ataqatigiit)-

**Figure 3. ItemFormat example**

**Example 2**

```
<ConferenceVariable Row="3" ItemFormat="[Expression, Format=Logged on {DelegatesLoggedIn} of {DelegatesOnList}]" />.
```

In more advanced scenarios, Format option can be used to set ItemFormat attribute for an embedded control.

**Example 3**

Showing a percentage directly on a voting bar:

```
<VoteResultBarChart ItemFormat="[Bar, Format=[PercentOfSum]]"/>
```



#### 5.2.2.4 Overflow

This option tells the CDA, what to do in case there is more text in the field than there is screen space. It can have one of the following values:

- OneLineNoScroll – the text is limited to one line, no scrolling occurs; default for most fields
- OneLineScroll – the text is limited to one line and begins to scroll, if it can't fit that one line; default for important fields like participant names or meeting title
- MultiLine – the text is wrapped on as many lines as necessary to show the complete text

**Example**

```
<CurrentAgendaItem Row="1" Level="1" ItemFormat="[LongDescription, Overflow=MultiLine]" />
```

### 5.3 HorizontalContentAlignment, VerticalContentAlignment

These properties regulate how the list data area as a whole is placed inside its cell.

For lists HorizontalContentAlignment only has effect when ColumnCount is not 1 (see Figure 4).

For non-lists HorizontalContentAlignment only affects Text control.



**Figure 4. Horizontal alignment in a multi-column list**

For horizontal alignment of the data fields use [Space] field and Align option.

VerticalContentAlignment aligns the whole list to the Top (default), Center or Bottom of the cell. For non-lists, VerticalContentAlignment aligns the text inside the field (default is Center).

## 6 List definition

Many of the controls are lists (these are marked in Table 1). Most lists support the following parameters:

- ColumnCount
- ColumnPadding
- AlternationCount
- ShowHeader
- HeaderFormat
- HeaderTextId
- GroupHeaderFormat
- ListViewType
- AutoScroll
- SortDescriptor
- ItemsToSkip

### 6.1 ColumnCount, ColumnPadding

The lists are designed as multi-column lists. The number of columns is given by ColumnCount property. The space in between the columns is defined by ColumnPadding, relative to row unit height.

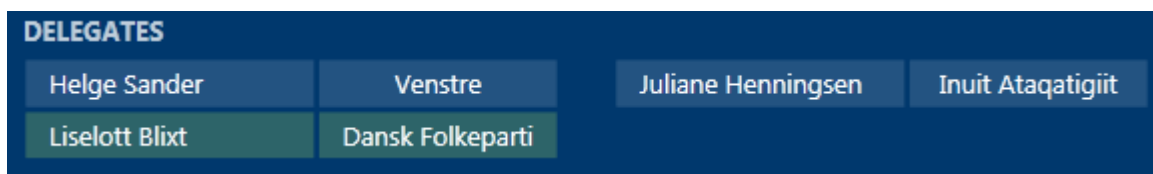


Figure 5. List with 2 columns ColumnPadding=1

### 6.2 AlternationCount

AlternationCount can be 1 or 2. If it is set to 2, every second line of the list gets another background, based on AlternatingBackgroundColor.

Generally, this parameter shouldn't be changed.

### 6.3 ShowHeader, HeaderFormat, HeaderTextId

A list can display a header text, if ShowHeader is true (it is the default for most lists).

HeaderFormat defines in the same way as ItemFormat, what is shown in the header. See Table 3.

The header is displayed with no background and a brush based on HeaderForegroundColor color as foreground.

The header text, if shown, is fetched from the label database for the current language with text ID HeaderTextId. Generally, HeaderTextId shouldn't be changed.

### 6.4 ListViewType

There are three kinds of lists defined: Continuous, Pages, and Horizontal (from 6.1). Continuous is more applicable to lists with items of different vertical sizes (e.g. Agenda), the others – with identical vertical sizes. Horizontal (from 6.1) places its items on a single line. Generally, this attribute shouldn't be changed.

## 6.5 AutoScroll

Tells the list, whether it shall scroll automatically, or not scroll at all. The scrolling speed / delay is predefined. It is usually set to True (except for Agenda and CurrentAgendaList lists) and, generally, shouldn't be changed.

## 6.6 SortDescriptor

Each list can be filtered, sorted and grouped by desired property name. It is possible to add multiple sorting properties. SortDescriptor can be used on all lists.

Each field in sorting definition has the following format:

- '[' – opened square bracket
- Property name to sort by
- Optionally and multiply
  - ',' – comma
  - Option name (Filter, Order, GroupBy)
  - For Filter and Order
    - '=' – equal sign
    - Option value (one or multiple in a square-bracket list)
- ']' – closed square bracket

Often, but not always, the property names correspond to fields defined in 'Table 1. Supported controls' and 'Table 2. ItemFormat fields'. They are also shown on the CDA screen in case of a mistyped property.

### Example

```
<QueueList SortDescriptor="[MicrophoneState, Filter=Reply] [GroupShortName, Filter=[RP,GP,BP,LP]] [Text]" />
```

### 6.6.1 Filter option

One can specify a single value (Filter=Speak) or several values, placed inside square brackets and separated by commas (Filter=[Speak, Reply, Request]). If multiple values are given, value '\*' gives all the not yet put values (e.g. Filter=[Speak, \*]). In this case, the items are grouped in the order of Filter definition.

If the filtered property type is an enumeration, value names can be used. For numbers, the numbers can be specified. For strings, regular expression syntax<sup>1</sup> is used (do not use commas unless in square brackets; the expression must match the whole string).

For filtering of Agenda items by level the values can be separated by semicolon or a dash.

### Example

```
<Agenda SortDescriptor="[Level, Filter=1;4-6,Order=Original]"
```

Here is the agenda filtered to show agenda Level 1 and Level 4 to Level 6.

### 6.6.2 Order option

Each filtered group can be sorted Ascending (default) or Descending (or not sorted at all – value None is to be used). For Agenda items the value Original can be used, which orders the Agenda in the original order.

If the groups should be sorted differently, a list of values must be assigned to the Order option (in square brackets). If there are more groups than Order values, the last one is "propagated" to the additional groups.

### Example

```
<DelegateList SortDescriptor="[GroupName, Filter=[., .., *], Order=[Descending, Ascending]][Text]" />
```

<sup>1</sup> Refer to: <http://msdn.microsoft.com/en-us/library/az24scfc.aspx> for regular expression syntax. For instance, "[A.\*]" matches for all strings, that start with a capital A. '^' is implicitly added to the beginning of the expression, and '\$' – to the end.



Here the list is first ordered by GroupName (1 character, then 2 characters, then the rest; the first group is sorted reverse-alphabetically, the other groups — alphabetically). Then within each group the entries are sorted by Text (in alphabetical order).

### Example

```
<Agenda SortDescriptor="[Level, Filter=[1;5-6],Order=[Original]]"
```

Her is the agenda filtered to show agenda Level 1, Level 5 and Level 6.

### Example

```
<VoteResultBarChart SortDescriptor="[Text, Filter=[Not.*]]"
```

Her is the voting result filtered to only show results, starting with 'Not', like 'Not voted'.

## 6.6.3 GroupBy option

This option has no value. It puts group headers before the item's property changes.

The group headers have their own style (ListGroupHeader) and their own item format (GroupHeaderFormat). The header item has the same type as the data item, thus it has all the fields defined for ItemFormat. But only the GroupBy fields should be shown, as the contents of the other fields is not well defined.

### Example

```
<QueueList GroupHeaderFormat="[GroupName]" SortDescriptor="[MicrophoneState, Filter=Reply] [GroupShortName, GroupBy, Filter=[RP,GP,BP,LP]] [Position]" />
```

The list is grouped by GroupShortName, and within each group sorted by the Position in the list. The list is filtered to show 'Replies' only. The header is showing the GroupName.

## 6.6.4 Vote result table filter

The vote result tables can be filtered to show only the voting results marked 'Show in voting pie' in the CAA Voting configuration:

```
<VoteResultTable Filter="Pie"/>
```

Show in Voting Pie		Show in CUA		Width
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1

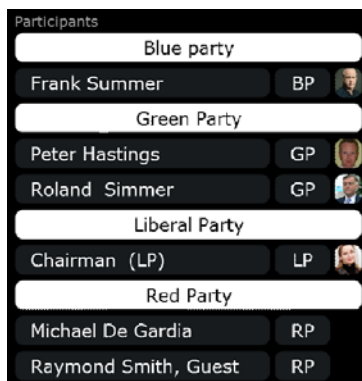
## 6.7 GroupHeaderFormat

The format and the available fields are the same as ItemFormat for this list. Used in connection with GroupBy option of SortDescriptor.

### Example

```
<DelegateList Row="3" SortDescriptor="[GroupName, GroupBy][Text]" GroupHeaderFormat="[GroupName]"/>
```

The list is grouped by GroupName, and within each group sorted by participant name. CDA shows the following:



## 6.8 ItemsToSkip

Items in the list can be skipped via the `ItemsToSkip` parameter. A number of items from the beginning of the list will simply not be shown in the UI.

The skipping is done after sorting, if there is sorting defined.

Default value for `ItemsToSkip` is 0.

## 6.9 MaxItemsBefore

The agenda items are as default shown with the current subject in the middle of the screen. It is possible to specify how many agenda items to be shown before the active subject using the parameter `MaxItemsBefore`.

## 7 Simple controls

A number of controls have only few parameters to adjust. This section describes some of them. All controls are briefly described in 'Table 1. Supported controls'.

### 7.1 HorizontalLine, VerticalLine

Draw a line in the given cell, according to the specified direction and alignment.

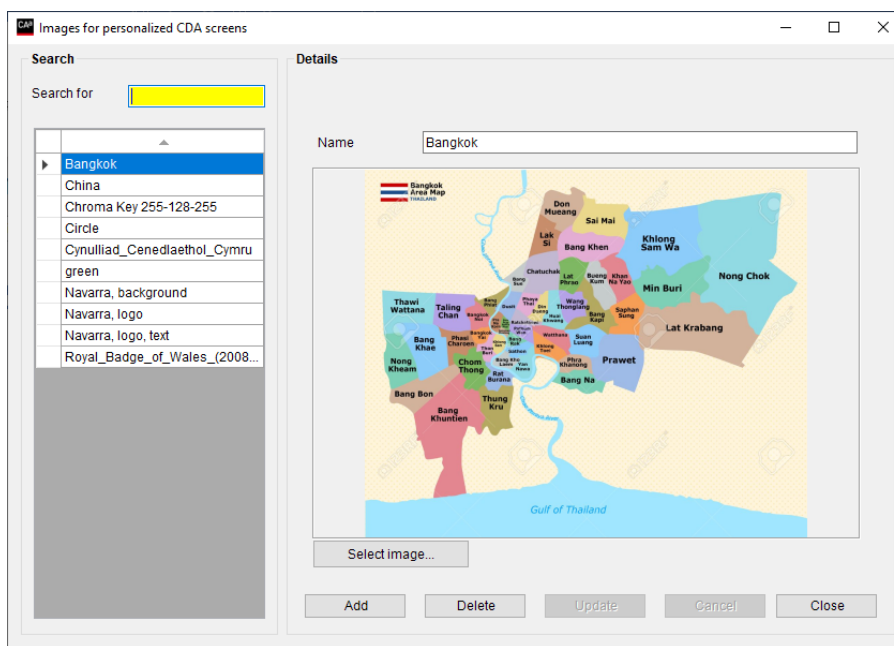
Properties:

Thickness – determines how thick a line item is shown (0-1). The thickness property is relative to the row/column size; line with thickness value '1' fills the whole row/column.

Color – One of the colors specified in section 8 Skin colors and styles.

### 7.2 Image

This control shows a user-defined image. The image is defined in CAA in 'Setup|Configurations|CDA screen configuration/Images for personalised CDA screens', where an image can be uploaded and given a name (a text string):



In the CDA the image is located within the defined cell according to its aspect ratio and content alignment.

The following attributes are adjustable.

Attribute	Type	Description
ImageId	String	The ID is the 'Name' as defined in 'Setup Configurations CDA screen configuration/Images for personalised CDA screens'
IsCustomImage	Boolean	True by default. When set to False, the ImageId can refer to a system-defined image, like participant picture. Used internally.
Stretch	Enum	Fill, Uniform, UniformToFill. None value shouldn't be used. See <a href="http://msdn.microsoft.com/en-us/library/system.windows.media.stretch(v=vs.110).aspx">http://msdn.microsoft.com/en-us/library/system.windows.media.stretch(v=vs.110).aspx</a> for usage explanation.
HorizontalContentAlignment	Enum	How the image is aligned horizontally, if it doesn't fit all the space. Default Center.
VerticalContentAlignment	Enum	How the image is aligned vertically, if it doesn't fit all the space. Default Center.
Opacity	Double	Opacity of the image (0-1). Default 1.

### Example

```
<Image Row ="3" ImageId="Companylogo" Opacity="0.5" Stretch="None"
HorizontalContentAlignment="Center" VerticalContentAlignment="Center" />
```

## 7.3 MessageViewer

Show an alert message. The message is defined in 'CAA|Meeting| Alert on CDA' and is shown, when an 'Alert on CDA' button is depressed on CUA.

The viewer is basically a text control with its own style and optional shadow, regulated by skin.

## 7.4 MicrophoneList

A container, which combines SpeakerList, RequestList and GroupList and dynamically rearranges them, based on the lists contents.

## 7.5 RemainingRequestTime

How much time is left until request list is closed.

## 7.6 Conference Variables

The following variables are available in this control:

Variable name	Type	Description
DelegatesOnList	Integer	The number of participants expected according to meeting-defined participant list; if there is no participant list, 0. The value of this variable is the same as the variable <b>'DelOnList'</b> used in Voting Configurations.
DelegatesLoggedIn	Integer	The number of participants currently logged in.
DelegatesNotLoggedIn	Integer	The number of participants not yet logged in; if there is no participant list defined, 0.
DelegatesVoted	Integer	The number of participants voted.
DelegatesPresent	Integer	The number of participants indicated presence.
DelegatesRegistered	Integer	The number of participants timely registered.
DelegatesLateRegistered	Integer	The number of participants late registered.
DelegatesNotRegistered	Integer	The number of participants not registered.
DelegatesDelegated	Integer	The number of delegated votes (proxy votes).
VotesOnList	Real	Total vote weight of participants expected according to meeting-defined participant list; if there is no participant list, 0.
VotesLoggedIn	Real	Total vote weight of participants currently logged in. The value of this variable is the same as the variable <b>'TotalVotes'</b> used in Voting Configurations.
VotesNotLoggedIn	Real	Total vote weight of participants not yet logged in; if there is no participant list, 0.
VotesVoted	Real	Total vote weight of participants voted.
VotesPresent	Real	Total vote weight of participants indicated presence. The value of this variable is the same as the variable <b>'TotalPresent'</b> used in Voting Configurations. The variable does only have a value during voting or attendance sessions.
VotesDelegated	Real	Total vote weight of delegated votes.

These variables can be used inside an Expression ItemFormat field like this.

### Example

```
<ConferenceVariable Row="1" ItemFormat="[Expression, Format=Logged on {DelegatesLoggedIn} of {DelegatesOnList}]" />.
```

## 7.7 Text

This is the basic control showing text with a large number of properties.

### 7.7.1 Content properties

- TextId – ID from labels database, which text should be shown. Shows the text in the current language, if not defined – in the default language.
- Text – verbatim text to show; overwrites TextId.
- FormatString – verbatim text, in which all occurrences of {0} are replaced with TextId.
- TextShowMode – post-formatting option:
  - Normal – no changes to the string
  - AllCaps – the string is capitalized
  - NoCarriageReturn – all new-line characters are replaced with spaces
  - ParseCarriageReturn – sequence \n is replaced with a new-line.
- AutoScroll – whether the text should scroll automatically, if it exceeds the available room; defaults to True in most cases.

### 7.7.2 View properties

- TextStyle – chooses a style from a set of margins and colors, defined by skin; refer to '8 Skin colors and styles'; this property is inherited, so it can be set on any control.
- HasOutline – whether the text box has outline, as defined by skin.
- HasCorners – whether the text box outline has round corners, as defined by skin.
- HasGlow – whether the text has a glow effect (allowing to see text on a similarly colored background).

### 7.7.3 Layout properties

- HorizontalAlignment – how the text is aligned horizontally.
- VerticalAlignment – how the text is aligned vertically.
- ItemSize – Refer to: '5.1 ItemSize'.
- TextWrapping – how to wrap text, which is too long
  - NoWrap – no wrapping, text is shown on one line, potentially scrolled
  - Wrap – the text is wrapped and shown on several lines, if there is room

## 7.8 Manual Clock

This is a basic control showing the time from the 'Manual' speech timer, when started in the CUA.

### Example

```
<Screen RowSizes="*,1">
<StopwatchTimer Row="1" ItemSize="7" />
</Screen>
```

## 8 Skin colors and styles

Some properties accept a skin color/style enumeration, which allows reuse of skin-defined colors (see the 'User Manual SW6000 CDA').

Values are described in the following table.

Name	Stroke color	Background color	Other
Primary	Primary text color	Transparent	
DisabledPrimary	Color for disabled item	Transparent	
ConferenceTitle	Primary text color	Transparent	Emphasized
Header	Color for list header	Transparent	Smaller font
DisabledHeader	Color for disabled header	Transparent	Smaller font
Outline	Outline color	Transparent	
Dataltem	Color for date items	Data item fill color	Border
ListItem	Color for list items	Odd list item fill color	Border
NarrowListItem	Color for list items	Odd list item fill color	No text padding
ListGroupHeader	Color for list group header	List group header fill color	Border
ListOddBackground	Odd list item fill color	–	Not text style
ListEvenBackground	Even list item fill color	–	Not text style
AgendaItemInactive	Color for inactive agenda item	Odd list item fill color	
AgendaItemActive	Color for active agenda item	Even list item fill color	
AgendaItemCurrent	Color for active agenda item	Even list item fill color	Emphasized
VotingBarContentItem	Color for data items	Transparent	No border
VotingItemUnfinished	Color for voting conclusion text	Transparent	Border
VotingItemPassed	Color for voting conclusion text	Passed	Border, no pulse
VotingItemFailed	Color for voting conclusion text	Failed	Border, no pulse
MessageItem	Message item text color	Message item fill color	
None	Uses ItemBackground and Foreground, which is specified in XML Transparent as default		
NoneDataItem	Same as None, uses CornerRadius and Outline from DataItem		
NoneListItem	Same as None, uses CornerRadius and Outline from ListItem		
ColorListItem	Color for QueueList (and descendants) and VoteResultTable. The text in the lists will follow the configured state colors for the lists: MicrophoneState for the QueueList VotingState for the VoteResultTable		

These can be used as TextStyle property's values for any control – though the primary target for this property is Text control.

## 9 Advanced objects' properties

The following properties are being described in this section.

Property	Mic mimic	Vote mimic	Bar chart	Pie chart
Elevation	x	x		x
RotationAngle	x	x		
OscillationPoint	x	x		
OscillationAngle	x	x		
DotSize	x	x		
ItemStyle	x	x		
Filter			x	x
Thickness			x	x
ItemPadding			x	
ItemThickness			x	
ItemOrientation			x	
BarStyle			x	
BarContentFormat			x	
MaxBarThickness			x	
InternalRadius				x
PopOutRadius				x
OpacityBeginning			x	x
OpacityEnd			x	x

### 9.1 2D position properties

RotationAngle is measured in degrees and allows rotating the object.

### 9.2 3D position properties

Elevation defines, at which angle the camera is looking onto the center of the mimic (angle  $\gamma$  on the figure in degrees). Default is  $90^\circ$ , which projects the mimic as a flat view from the top.

Oscillation settings allow the mimic to rotate around a pivot point (OscillationPoint, 0 means "furthest from the viewer", 1 means "closest to the viewer").

The rotation amplitude is regulated by OscillationAngle (in degrees, default is "0", meaning "off"). Rotation goes from  $-OscillationAngle$  to  $+OscillationAngle$ , then back. Thus negative value of OscillationAngle changes the phase.

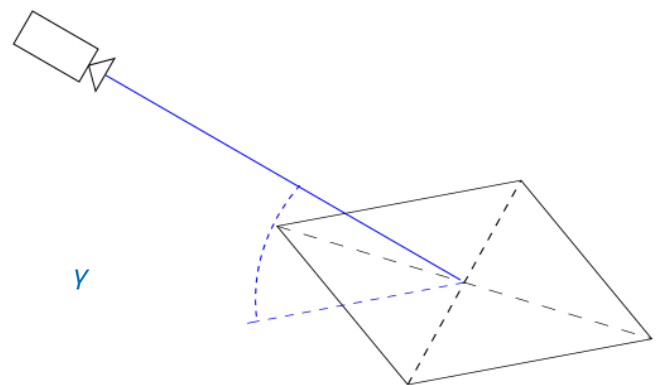


Figure 6. Camera position



### 9.3 Mimic item-level properties

DotSize allows changing the dot size on a per-control basis. The default is set in the mimic definition.

ItemStyle defines how the items (dots) on the mimic look like. These styles are predefined.

- None – nothing is shown for this item.
- FlippingFlat (default) – a thin squared or circular item, flipping when the state changes.
- GrowingBar – a squared or circular bar, changing its height based on the state.

### 9.4 Chart control-level properties

Filter property regulates, what data is shown: all defined in CAA or a “Show in pie” subset. Values are None (default) and Pie.

ItemPadding defines how much space is around the bars. Value of “1” (default) corresponds to one row unit (Refer to ‘4.2.1 Grid definition example’).

ItemThickness property defines, what defines the thickness of the bars. Values are:

- None – the thickness is the same for all items on this chart
- Width (default) – the thickness depends on the width setting in CAA
- Value – the thickness depends on the actual value; in this case ItemPadding is recommended to set to 0.

ItemOrientation controls, in which way the items are built up. The Vertical orientation (default) builds ItemFormat fields vertically, bottom-up. The Horizontal orientation creates a left-to-right horizontal formation.

### 9.5 Chart item-level properties

BarStyle controls how the actual bar looks like:

- ‘Plain’ value (default) uses a flat 2D bar
- ‘Bar3d’ creates a 3D-like bar

BarContentFormat specifies what data is shown overlaid onto the bar. The format of this field is the same as for ItemFormat and uses the same fields as chart’s ItemFormat.

MaxBarThickness defines, how large a bar can get (horizontally or vertically) as a percentage of the control’s size (padding is discarded). For instance, a value of 0.25 cuts the bar, if it becomes more than ca. 25% of the control.

Default value is 1, unless the ItemThickness is set to Width – then it is 0.25. If any bar is cut, the chart is placed inside the control according to HorizontalContentAlignment (default Center) / VerticalContentAlignment (default Top).

Thickness determines, how thick a 3D item is shown – both for pie and bar charts.

InternalRadius – a radius of a round hole inside a pie, in relative units (0-1)

PopOutRadius – a radius, on which the slices shall start, in relative units (0-1)

OpacityBeginning and OpacityEnd regulate the opacity (transparency) of the bars and slices; 0 is fully transparent, 1 is fully opaque.

# 10 Data tables

## 10.1 Supported controls

If control's name is mistyped, a list of available controls is shown on CDA screen.

All controls support the following properties:

- Row – on which Screen row the control's left top corner is located (1 or more)
- Column – on which Screen column the control's left top corner is located (1 or more)
- RowSpan – how many Screen rows the control takes
- ColumnSpan – how many Screen columns the control takes
- VerticalContentAlignment – vertical alignment of the list as a whole (if a control is a list) or text (for formatted and text-based controls)

**Table 1. Supported controls**

Control name	Content	Type	Additional properties
Agenda	All agenda items, with the current item being emphasized.	List	
Conference Variables	Variables, related to counting participants and their votes.	FC	Expression
ConnectionStatus	Shows the name of the PC which the CDA is connected to	Text	
CurrentAgendaItem	The currently active agenda item.	FC	Level, ItemSeparator
CurrentAgendaList	The currently active agenda items.	List	
CurrentConference	The current meeting.	FC	
CurrentTime	The actual date and time.	FC	
DelegateList	Logged on participants.	List	
GroupList	Speaking time of the groups.	List	
HorizontalLine	A line along horizontal axis.		Color Thickness VerticalContentAlignment
Image	Image from database.		ImageId Stretch HorizontalContentAlignment VerticalContentAlignment Opacity
LastSpeakerList	A list of recently opened microphones.	List	
LatestSpeaker	A latest opened microphone (while it is still on).	FC	
MessageViewer	Show the 'Alert on CDA' message from CAA defined in the Meeting screen		
MicrophoneList	A container, which combines SpeakerList, RequestList and GroupList and dynamically rearranges them, based on the lists contents.		
MicrophoneMimic	Mimic image with microphone status.	Adv	
NoConference	Show predefined no-meeting text.	Text	
PrepareConference	Show predefined prepare-meeting text.	Text	
QueueList	A list of all activated microphones, be it speak, request, or reply (from 6.1)	List	
RemainingRequestTime	How much time is left until request list is closed.		ClosedTextId ClosedTextFormat
RequestCounter	How many persons are on the request queue.	Text	

Control name	Content	Type	Additional properties
RequestList	A list of persons on the request queue. This is a QueueList with a predefined SortDescriptor.	List	
SpeakerList	A list of open microphones. This is a QueueList with a predefined SortDescriptor.	List	
SpeechTimeStatus	Whether the speech timer is paused	FC	
StopwatchTimer	The time from the Manual speech timer.	Text	
Text	Locally defined text or one from database in the current language.		TextId Text TextShowMode
VerticalLine	A line along vertical axis.		Color Thickness HorizontalContentAlignment
VoteConclusion	The result of the voting session.	FC	PulsationMode
VoteIndividual	A list of individual vote answers.	List	ShowVotedOnly
VoteMode	Provides some basic information about the ongoing voting session.	FC	IsHiddenWhenOpen
VoteResultBarChart	Distribution of the vote answers as a bar chart.	List, Adv	
VoteResultPieChart	Distribution of the vote answers as a pie chart.	Adv	Filter
VoteResultTable	Distribution of the vote answers as a plain table.	List	Filter
VoteTime	The time elapsed since the voting started.	FC	
VotingMimic	Mimic image with voting status.	Adv	<b>This property has been discontinued:</b> UseDefaultColorForVotes (True/False)
VoteGroup	A list to Groups and their Vote answers	List	

<sup>2</sup> “FC” means a formatted control, which supports ItemFormat (see Table 2) and a few properties (see 0).

“List” means a multi-column list with header, supporting ItemFormat (see Table 2) and other properties (see 0).

“Adv” means an advanced graphical control, which supports properties described in section ‘10.2 ItemFormat fields’

“Text” means this is a simple control, having the same properties as Text control (see 07.7 Text’ ).

Empty cell indicates that this is a poorly adjustable simple control.

## 10.2 ItemFormat fields

The available fields are also shown on CDA in case of a mistyped field.

**Table 2. ItemFormat fields**

Control	Field	Comments	Default format
Agenda, CurrentAgendaItem, CurrentAgendaList	Indentation	Horizontal space, corresponding to the agenda item level multiplied by row unit size. Only works for Agenda and CurrentAgendaList controls. Default value for Width option is ItemFit.	N/A <sup>2</sup>
	Id	The “#” column in CAA.	<sup>3</sup>
	IdEmphasized	The “#” column in CAA with different formatting for current and non-current items.	<sup>3</sup>
	Title	Agenda title. Default value for Width option is Rest.	<sup>3</sup>
	TitleEmphasized	Agenda title with different formatting for current and non-current items. Default value for Width option is Rest.	<sup>3</sup>
	TitleLine	A string, consisting of titles of all levels from 1 to the current one. The titles are separated by ItemSeparator. Level is ignored.	N/A <sup>2</sup>
	ShortDescription	Short description text. Default value for Width option is Rest.	<sup>3</sup>
	LongDescription	Long description text. Default value for Width option is Rest.	<sup>3</sup>
	TitleWithDescription	A title and a short description (on one line) or long description (multi-line). Default value for Width option is Rest.	<sup>3</sup>
	VotingIcon	The result of the voting on the given agenda item as icon.	N/A <sup>2</sup>
	VotingText	The result of the voting on the given agenda item as text.	<sup>3</sup>
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>
ConferenceVariable	Expression		Refer to: ‘7.6 Conference Variables’
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>

<sup>2</sup> This field does not use Format option.

<sup>3</sup> This is a string field; the default format is {0}.

Control	Field	Comments	Default format
CurrentConference	Name	The current meeting name.	3
	TimeMmSs	The running time of the meeting.	%m:ss <sup>4</sup>
	TimeHhMm	The running time of the meeting.	%h:mm <sup>4</sup>
	TimeHhMmSs	The running time of the meeting.	%h:mm:ss <sup>4</sup>
	CustomTime	The running time of the meeting.	4
	ScheduledStart	The date/time of the scheduled meeting start.	f <sup>5</sup>
	ScheduledStartDate	The date of the scheduled start.	D <sup>5</sup>
	ScheduledStartTime	The time of the scheduled start.	t <sup>5</sup>
	VotingTime	Default voting time, as defined in meeting options.	%m:ss <sup>4</sup>
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>
CurrentTime	Time	Current time.	t <sup>5</sup>
	Date	Current date.	M <sup>5</sup>
	DayOfWeek	Day name (default format "").	ddd <sup>5</sup>
	DayOfMonth	Current day of month, 1-31.	G <sup>6</sup>
	MonthName	Month name.	MMMM <sup>5</sup>
	MonthNumber	Current month number, 1-12.	G <sup>6</sup>
	Year	Current year (full number).	G <sup>6</sup>
	CustomDateTime	Current date and time.	5
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>
Delegatelist	Text	Name or show-name for this participant's meeting role. Default value for Width option is Rest.	3
	DelegatePicture	The image of the participant	N/A <sup>2</sup>
	GroupName	Full name of the group, where this participant belongs to.	3
	GroupShortName	Short name of the group, where this participant belongs to.	3
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>
GroupList	Text	Full name of the group. Default value for Width option is Rest.	3
	GroupShortName	Short name of the group.	3
	GroupSpeechTime	Total group's used or remaining speech time (depends on the RunningDirection configuration).	mm:ss <sup>4</sup>
	GroupSpeechLimit	Total group's speech time limit.	mm:ss <sup>4</sup>
	GroupSpeechUsed	Total group's used speech time.	mm:ss <sup>4</sup>
	GroupSpeechRemaining	Total group's remaining speech time.	mm:ss <sup>4</sup>
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>

<sup>4</sup> For TimeSpan custom formatting see <http://msdn.microsoft.com/en-us/library/ee372287.aspx>.

<sup>5</sup> For DateTime custom formatting see <http://msdn.microsoft.com/en-us/library/az4se3k1.aspx>.

<sup>6</sup> For number formatting refer to: <http://msdn.microsoft.com/en-us/library/dwhawy9k.aspx>

Control	Field	Comments	Default format
ReplyLastSpeakerList, LatestSpeaker, RequestList, SpeakerList QueueList	Text	Name or show-name for this participant's meeting role. Default value for Width option is Rest.	<sup>3</sup>
	Position	Position in the list (1 is the first position, 2 – next, etc.)	G <sup>6</sup>
	DelegatePicture	The image of the participant. If none is defined, the field background is still shown.	N/A <sup>2</sup>
	DelegatePictureOrNothing	The image of the participant. If none is defined, nothing is shown (this field is only defined for 'LatestSpeaker').	N/A <sup>2</sup>
	SeatNumber	Seat number.	G <sup>6</sup>
	UserTypeName	The name of the participant's meeting role.	<sup>3</sup>
	GroupName	Full name of the group, where this participant belongs to.	<sup>3</sup>
	GroupShortName	Short name of the group, where this participant belongs to.	<sup>3</sup>
	DelegateSpeechTime	Participant's used or remaining speech time (depends on the RunningDirection configuration).	mm:ss <sup>4</sup>
	DelegateSpeechLimit	Participant's speech time limit.	mm:ss <sup>4</sup>
	DelegateSpeechUsed	Participant's used speech time.	mm:ss <sup>4</sup>
	DelegateSpeechRemaining	Participant's remaining speech time.	mm:ss <sup>4</sup>
	GroupSpeechTime	Participant group's used or remaining speech time (depends on the RunningDirection configuration).	mm:ss <sup>4</sup>
	GroupSpeechLimit	Participant group's speech time limit.	mm:ss <sup>4</sup>
	GroupSpeechUsed	Participant group's used speech time.	mm:ss <sup>4</sup>
	GroupSpeechRemaining	Participant group's remaining speech time.	mm:ss <sup>4</sup>
	MicrophoneState	The state of the microphone	Circle <sup>7</sup>
	ReplyDescription	The description to a reply	<sup>3</sup>
	ReplyLabel	The label assigned to a reply	<sup>3</sup>
	SeatComment	Shows the 'Comments' field from the Conference Units Setup table for the seat the participant is logged into	<sup>3</sup>
Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>	
RemainingRequestTime	Time	Elapsed time or "closed" text.	mm:ss <sup>4</sup>
	Limit	Time limit for the request.	mm:ss <sup>4</sup>
	TimeBar	A progress bar for the elapsed time.	N/A <sup>2</sup>
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>

<sup>7</sup> Possible formats: Circle, Thin, Square. These shapes use the same corner and outline settings as other items on the control.

Control	Field	Comments	Default format
SpeechTimeStatus	Text	Text, when speech timer is paused, nothing when running.	<sup>3</sup>
	Rectangle	Shows a rectangle, when the timer is paused. Colour is TimeWarning. Default value for Width option is Rest.	N/A <sup>2</sup>
	Square	Shows a square, when the timer is paused. Colour is TimeWarning.	N/A <sup>2</sup>
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>
Vote Conclusion	Text or TextOrNothing	Pulsating vote text or nothing, if the voting result is not acquired	<sup>3</sup>
	State	Color element showing the conclusion, or nothing, if the voting result is not acquired	Circle <sup>7</sup>
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>
VoteGroup	GroupName	Group full name	<sup>3</sup>
	GroupShortName	Group short name	<sup>3</sup>
	SummaryList	A list of answers, totaled for each group and shown as Horizontal list (on one line). Use Format option to define the fields; the definition matches VoteResultTable.	[VotingState, Format=Thin][Result]
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>
VoteIndividual	Text	Name or show-name for this participant's meeting role. Default value for Width option is Rest.	<sup>3</sup>
	GroupName	Full name of the group, where this participant belongs to.	<sup>3</sup>
	GroupShortName	Short name of the group, where this participant belongs to.	<sup>3</sup>
	VotingState	If the person has voted, show a graphical element of the colour specified in voting configuration in CAA.	Thin <sup>7</sup>
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>
VoteMode	Mode	Text signifying whether the voting is secret or open. Hidden when the voting is not running. Also hidden if the voting is open and IsHiddenWhenOpen is set to True.	<sup>3</sup>
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>

Control	Field	Comments	Default format
VoteResultBarChart	Text	Vote item text (like “Yes” and “No”).	<sup>3</sup>
	Bar	A graphical representation, which size corresponds to the voting result. Default value for Width is ItemFit.	<sup>8</sup> (for this control)
	Result	Voting result (sum of weights) for this item.	G <sup>6</sup>
	PercentOfMax	Vote result divided by the maximum result.	P0 <sup>6</sup>
	PercentOfSum	Vote result divided by the total sum of all results.	P0 <sup>6</sup>
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>
VoteResultTable	Text	Vote result text (label) like “Yes”. Default value for Width option is Rest.	<sup>3</sup>
	Result	Voting result (sum of weights) for this item.	G <sup>6</sup>
	VotingState	Graphical element of the colour specified in voting configuration in CAA.	Circle <sup>7</sup>
	Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>
VoteTime	Paused	Text when the voting timer is paused.	<sup>3</sup>
	TimeText	“Elapsed” or “Remaining” text unless the timer is stopped.	<sup>3</sup>
	TimeTextWhenRunning	“Elapsed” or “Remaining” text when the timer is running.	<sup>3</sup>
	Time	Elapsed or remaining time unless the timer is stopped.	mm:ss <sup>4</sup>
	TimeWhenRunning	Elapsed or remaining time when the timer is running.	mm:ss <sup>4</sup>
	TimeBar	Graphical indication of voting time.	N/A <sup>2</sup>
	Limit	Voting time limit.	mm:ss <sup>4</sup>
Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>	

<sup>8</sup> The value is what one would otherwise define for ItemFormat for this control including square brackets. For instance:  
Format=[Id, Format=\{0},][Title, Format={0}\]]



## 10.3 HeaderFormat fields

The header format can be set for any list control.

**Table 3. HeaderFormat fields**

Field	Comments	Default format
Text	Header text, fetched from the database with HeaderTextId.	<sup>3</sup>
ItemCount	Item count. Show the number of items in the list	{{0}} <sup>6</sup>
PageList	For page-scrolling lists identifies the current page. Default value for Width option is Rest, Align – Right.	N/A <sup>2</sup>
CurrentAgendaItem	Embeds CurrentAgendaItem control into the header.	[Id] <sup>8</sup>
RemainingRequestTime	Embeds a RemainingRequestTime control into the header.	From CAA
SpeechTimeStatus	Embeds a SpeechTimeStatus control into the header.	[Text, Format={{0}}] <sup>8</sup>
Space	Nothing at all is shown, empty space. Default value for Width option is Rest.	N/A <sup>2</sup>

## 10.4 Default value notes

The value hierarchy is usually as following:

Priority	Where defined	Example
Highest	Control attribute in XML	<code>&lt;CurrentAgendaItem ItemFormat="[TitleLine]" .../&gt;</code>
Medium	List formats / skin in CAA	<pre> Current Conference   [Name] Current Agenda Item   [Id][Title] Current Agenda List   [Indentation][TitleEmphasized] </pre>
Lowest	Application default	Internal item format configuration: <code>it As String = "[Title]"</code>

# 11 Interpretation display

## 11.1 Interpretation Channels List

The CDA includes a list item called "InterpretationChannel" primarily used to inform the audience about the languages assigned to the interpretation channels.

The languages and language abbreviations used by the CDA is the lists that are available in SW6000. The language abbreviations in the database is capitalized.

The font used in the list is the font specified in the CDA skin in the 'General text' section.

### 11.1.1 Item format

Property	Description	Setting in CDA skin
ChannelNumber	Channel number	
ChannelNumberActive	Channel number (default). Background color when the channel is active (interpretation is taking place) is specified in the CDA skin. Option to set flag for capitalization, like TextMode  Default background color: R34 G177 B76	Language active
LanguageName	Language assigned to the language channel (channel number).	
LanguageNative	Language in native language. Localized interpretation language names is included in the database.	
LanguageAbbreviation	Language abbreviation for the language name. Option to set flag for capitalization, like TextMode.	
ChannelQuality	Channel quality. Channel is carrying floor or relay interpretation:  Floor (0): Direct interpreting with a (+) Relay interpreting with a (-) Double relay interpreting with a (- -) (double minus).  Indication background colors specified in the CDA skin. The 'Channel Quality' setting is common for the CDA 'InterpretationBooth' and the CDA 'InterpretationChannel' items.  Default colors:  Indication (0) Transparent Indication (+) R34 G177 B76 Indication (-) R242 G96 B103 Indication (- -) R237 G28 B36	Indication (0) Indication (+) Indication (-) Indication (- -)

It is possible to construct merged fields with ItemFormat, like: [ChannelNumber, Format=Ch. {ChannelNumber} {LanguageName}] or [ChannelNumberActive, Format=Ch. {ChannelNumber} {LanguageNative}].

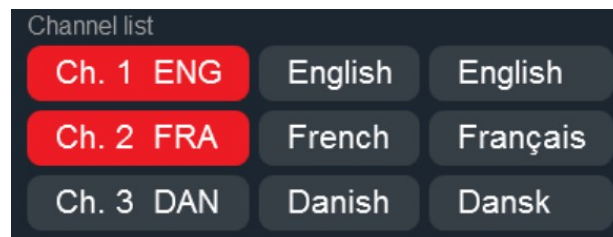
Filtering and grouping options for the list is similar to the options for other lists in the CDA.

With the above formats it is possible to make a list informing the audience about the channel and if interpretation is taking place like this example. The entry in the CDA configuration is:

```
InterpretationChannel ItemFormat="[ChannelNumberActive, Format=Ch. {ChannelNumber} {LanguageAbbreviation}] [LanguageName] [LanguageNative]"
```

consisting of the following elements:

- ChannelNumberActive, Format=Ch. {ChannelNumber} {LanguageAbbreviation}
- LanguageName
- LanguageNative



'Channel List' is a label. 'Ch.' is a text.

This next list informs the audience about the language assigned to the channels:

- ChannelNumber Format=Ch. {ChannelNumber}
- LanguageName



## 11.2 Interpretation booth list

The CDA includes an item called "InterpretationBooth".

The languages and language abbreviations used by the CDA is the lists that are available in SW6000. The language abbreviations in the database is capitalized.

The font used in the list is the font specified in the CDA skin in the 'General text' section.

## 11.2.1 Item format

Property	Description	Setting in CDA skin
BoothNumber	Booth number.	
BoothNumberActive	Booth number. Same as 'BoothNumber', but with a background color, when the booth is active, specified in the CDA skin.  Default background color: R0 G162 B232	Booth active
ChannelQuality	Channel quality. Channel is carrying floor or relay interpretation:  Floor (0): Direct interpreting with a (+) Relay interpreting with a (-) Double relay interpreting with a (- -) (double minus).  Indication background colors specified in the CDA skin. The 'Channel Quality' setting is common for the CDA 'InterpretationBooth' and the CDA 'InterpretationChannel' items.  Default colors:  Indication (0) Transparent Indication (+) R34 G177 B76 Indication (-) R242 G96 B103 Indication (- -) R237 G28 B36	Indication (0) Indication (+) Indication (-) Indication (- -)
AChannelNumber	The A-channel language number . The background color, when the A-channel is active, is specified in the CDA skin.	Language active
BChannelNumber	The B-channel language number if the B-channel is active. The background color, when the B-channel is active, is specified in the CDA skin.	Language active
CChannelNumber	The C-channel language number if the C-channel is active. The background color, when the C-channel is active, is specified in the CDA skin.	Language active
AChannelLanguageName	Language name of the A-channel	
BChannelLanguageName	Language name of the B-channel if the B-channel is active	
CChannelLanguageName	Language name of the C-channel if the C-channel is active	
AChannelLanguageNativeName	Native language name A-channel	
BChannelLanguageNativeName	Native language name of the B-channel if the B-channel is active	
CChannelLanguageNativeName	Native language name of the C-channel if the C-channel is active	
AAbbreviation	Language abbreviation of the A-channel. Option to set flag for capitalization, like TextMode.	
BAbbreviation	Language abbreviation of the B-channel if the B-channel is active. Option to set flag for capitalization, like TextMode.	
CAbbreviation	Language abbreviation of the C-channel if the C-channel is active. Option to set flag for capitalization, like TextMode.	

It is possible to construct merged fields with format, like: [AChannelNumber, Format={AChannelNumber}{AChannelLanguageName}] or [AChannelActive, Format={AChannelNumber}{AChannelLanguageName}].

Filtering and grouping options for the list is similar to the options for other lists in the CDA.

This display is an example for technicians to view booth status. The entry in the CDA configuration is:

```
InterpretationBooth Itemformat="[BoothNumberActive, Format=Booth {BoothNumber}] [ChannelQuality]
[AChannelNumber, Format=Ch. {AChannelNumber} {AChannelLanguageName}] [BChannelNumber, Format=Ch.
{BChannelNumber} {BChannelLanguageName}] [CChannelNumber, Format=Ch. {CChannelNumber}
{CChannelLanguageName}]"
```

consisting of the following elements:

- BoothNumberActive, Format=Booth {BoothNumber}
- ChannelQuality
- AChannelNumber, Format=Ch. {AChannelNumber} {AChannelLanguageName}
- BChannelNumber, Format=Ch. {BChannelNumber} {BChannelLanguageName}
- CChannelNumber, Format=Ch. {CChannelNumber} {CChannelLanguageName}

'Interpretation List' is a label. 'Booth' is a text.

Examples:

#### 11.2.1.1 No Interpretation is on-going:

Interpretation List				
Booth 1	0	Ch. 1	English	
Booth 2	0	Ch. 1	English	
Booth 3	0	Ch. 2	Russian	
Booth 4	0	Ch. 2	Russian	
Booth 5	0	Ch. 3	Danish	
Booth 6	0	Ch. 4	Swedish	
Booth 7	0	Ch. 5	Dutch	
Booth 8	0	Ch. 6	French	
Booth 9	0	Ch. 7	Greek	
Booth 10	0	Ch. 8	Polish	

## 11.2.1.2 Russian Floor (1)

- Russian is the floor language.
- Booth 3 (Russian) is interpreting from floor to French using his C-channel.
- The English booths (1 and 2) have no on-going interpretation, but the English channel is occupied as the French booth is interpreting to English from French.
- French and Polish are indicated with + as interpreting to those two languages is from Floor.
- Danish, Dutch and Greek are indicated with – as interpreting is from French or Polish.
- Swedish is indicated with - - as interpreting is from Danish.

Interpretation List				
Booth 1	-	Ch. 1 English		
Booth 2	-	Ch. 1 English		
Booth 3	0	Ch. 2 Russian		Ch. 6 French
Booth 4	0	Ch. 2 Russian		
Booth 5	-	Ch. 3 Danish		
Booth 6	--	Ch. 4 Swedish		
Booth 7	-	Ch. 5 Dutch		
Booth 8	+	Ch. 6 French	Ch. 1 English	
Booth 9	-	Ch. 7 Greek		
Booth 10	+	Ch. 8 Polish		

## 11.2.1.3 Russian Floor (2)

- Russian is the floor language.
- Booth 4 (Russian) is interpreting from floor to English using his B-channel.
- English, French and Polish are indicated with + as interpreting is from Floor.
- Danish, Swedish, Dutch and Greek are indicated with – as they are interpreting from French or English.

Booth 1	+	Ch. 1 English		
Booth 2	+	Ch. 1 English		
Booth 3	0	Ch. 2 Russian		
Booth 4	0	Ch. 2 Russian	Ch. 1 English	
Booth 5	-	Ch. 3 Danish		
Booth 6	-	Ch. 4 Swedish		
Booth 7	-	Ch. 5 Dutch		
Booth 8	+	Ch. 6 French		
Booth 9	-	Ch. 7 Greek		
Booth 10	+	Ch. 8 Polish		



## 11.2.1.4 Russian Floor (3)

- Russian is the floor language.
- Booth 3 (Russian) is interpreting from floor to French using his C-channel.
- English, French and Polish are indicated with + as interpreting is from Floor.
- Danish, Dutch and Greek are indicated with – as interpreting is from French.
- Swedish is indicated with - - as interpretation is made from Danish.

Interpretation List				
Booth 1	+	Ch. 1	English	
Booth 2	+	Ch. 1	English	
Booth 3	0	Ch. 2	Russian	Ch. 6 French
Booth 4	0	Ch. 2	Russian	
Booth 5	-	Ch. 3	Danish	
Booth 6	--	Ch. 4	Swedish	
Booth 7	-	Ch. 5	Dutch	
Booth 8	+	Ch. 6	French	
Booth 9	-	Ch. 7	Greek	
Booth 10	+	Ch. 8	Polish	

## 11.2.2 CDA skin settings

The CDA skin editor includes the following settings specifying the background color for the active states for the CDA 'ChannelList' and 'BoothList' items:

Interpretation Setting in CDA skin	Default color (R,G,B)
Language active (background color)	34,177,76
Booth active (background color)	0,162,232
Channel active (background color)	237,28,36
Indication (0)	transparent
Indication (+)	34,177,76
Indication (-)	242,96,103
Indication (--)	237,28,36

## 12 Personalized displays, examples

The following are examples of personalized displays, which can be created in SW6000.

Some screens are shown with grid lines. This is very useful when creating the screens, but should be disabled (set to 'False') after the screen has been created.

The examples can be copied/pasted directly into 'Screen Definition' field in the 'CDA Screen Definition' window.

**Hint:** During the creating of personalized screens set: `ShowGridLines="True"`.

### 12.1 Agenda

#### 12.1.1 Agenda and Speakers

```
<Screen Name="Agenda and Speakers" RowSizes="1,2,*,*" ColumnSizes="*,0.5,*">
<CurrentTime Row="1" ColumnSpan="0"
  ItemFormat="[Time][DayOfWeek][Space][Date]"/>
<CurrentConference Row="2" ColumnSpan="0"/>
<Agenda Row="3" RowSpan="2"/>
<SpeakerList Row="3" Column="3"
  ItemFormat="[MicrophoneState,Format=Thin] [Text] [DelegateSpeechTime] [SeatNumber]"/>
<RequestList Row="4" Column="3"
  ItemFormat="[MicrophoneState,Format=Thin] [Text] [DelegateSpeechTime] [SeatNumber]"/>
</Screen>
```

The screenshot shows a mobile application interface for a City Hall Meeting. The title is "City Hall Meeting, Nov. 25th 2015 (List)". The time is 2:52 PM on Friday, May 26. The agenda is displayed on the left, and the speakers list is on the right.

**Agenda:**

- 2 Adoption of Agenda
- 3 Minutes of Previous Meetings
  - Short Description #3, and this is more text*
  - a Council Meeting - August 28, 2007
  - b Public Hearing - August 28, 2007
- 4 Delegations
  - Registration of delegations*
  - a Community Plan on Homelessness** ✓
  - b Detailed presentation
  - 5 Public Hearings on the Integrated Community Su
    - Short Description #5, and this is more text*
    - a Move into Public Hearing
    - b Close Public Hearing

**Speakers:**

Speaker Name	Time	Seat
Chairman (LP)	00:00	1
Peter Hastings	00:00	2
Frank Summer	00:00	5

**Speak Requests (Request List is Closed):**

Speaker Name	Time	Seat
Raymond Smith	01:00	3
Roland Simmerr	01:00	4
Michael De Gardia	01:00	6

## 12.1.2 Agenda and Speakers with Picture

```

<Screen Name="Agenda and Speakers with Picture" RowSizes="1,2,*" ColumnSizes="*,0.5,*">
<CurrentTime Row="1" ColumnSpan="0"
  ItemFormat="[Time][Space][Date]"/>
<CurrentConference Row="2" ColumnSpan="0"/>
<Agenda Row="3" RowSpan="2"/>
<SpeakerList Row="3" Column="3" ItemSize="Large"
  ItemFormat="[MicrophoneState,Format=Thin] [Text] [DelegatePicture]"/>
<RequestList Row="4" Column="3"
  ItemFormat="[MicrophoneState,Format=Thin] [Text] [DelegateSpeechTime] [SeatNumber]"/>
</Screen>

```

3:02 PM
May 26

## City Hall Meeting, Nov. 25th 2015 (List)

Agenda

- 2 Adoption of Agenda
- 3 Minutes of Previous Meetings
  - Short Description #3, and this is more text*
  - a Council Meeting - August 28, 2007
  - b Public Hearing - August 28, 2007
- 4 Delegations
  - Registration of delegations*
  - a Community Plan on Homelessness** ✓
  - b Detailed presentation
  - 5 Public Hearings on the Integrated Community Su
    - Short Description #5, and this is more text* ✗
    - a Move into Public Hearing
    - b Close Public Hearing

Speakers

- Chairman (LP)
- Peter Hastings
- Frank Summer

Speak Requests 00:11 00:30

	Raymond Smith	01:00	3
	Michael De Gardia	01:00	6

### 12.1.3 Agenda and Speakers, Picture latest speaker

```
<Screen Name="Agenda, speakers, picture latest speaker" RowSizes="1/7, 1/9, 2/6-1/2, 1/8, 0.3,* (2), *(3),1"
ColumnSizes="*,0.2,*,0.2,*,0.4,*,0.2,2*" ShowGridLines="False">
  <CurrentTime Row="1" ColumnSpan="0"/>
  <CurrentConference Row="3" ColumnSpan="0"/>

  <Agenda Row="5" RowSpan="2" Column="1" ColumnSpan="7" ItemSize="1" MaxItemsBefore="2"
    ItemFormat="[Id][Indentation][Title, Overflow=OneLineNoScroll, Width=Rest, WidthMultiplier=1][VotingIcon]"/>

  <Text Text="Latest speaker" Row="5" RowSpan="2" Column="9" ColumnSpan="3" HorizontalAlignment="Center"
    VerticalAlignment="Top" TextStyle="Header" />
  <LatestSpeaker Row="6" RowSpan="2" Column="9" ColumnSpan="3" VerticalAlignment="Bottom"
    ItemFormat="[DelegatePicture, Align=Right]" TextStyle="DataItem" ItemSize="Auto"/>
  <LatestSpeaker Row="8" RowSpan="1" Column="9" ColumnSpan="3" VerticalAlignment="Top"
    ItemFormat="[Text, Align=Center]" ItemSize="1"/>

  <QueueList Row="7" RowSpan="3" ColumnSpan="7" ShowHeader="True" HeaderFormat="[Text, Format=Speakers, replies and
requests]" SortDescriptor="[MicrophoneState, Order=Ascending][Position]"
    ItemFormat="[MicrophoneState, Format=Thin] [Text,Width=Rest, Overflow=OneLineNoScroll][DelegatePicture] [GroupShortName,
Format={(0)}] [GroupSpeechTime] [DelegateSpeechTime] [SeatNumber, Format= Seat {0}]" />
</Screen>
```

The screenshot displays a meeting interface with a dark background. At the top left, the time is 11:56 AM. At the top right, the date is Friday, September 20, 2019. The main title is "City Hall Meeting (Prepared seat table)".

The interface is divided into two main sections:

- Agenda:** A list of items with a green checkmark next to the selected item:
 

4Aa	Detailed presentation
5	Public Hearings on the Integrated Community Sustainability Plan
5A	Move into Public Hearing
5B	Close Public Hearing
- Speakers, replies and requests:** A list of speakers with a microphone icon, name, role, and seat number:
 

Julia Stone (W) (Chairman)	(LP)	00:00	Seat 1
----------------------------	------	-------	--------

On the right side, there is a "Latest speaker" section featuring a portrait of Julia Stone (W) (Chairman) and her name below it.

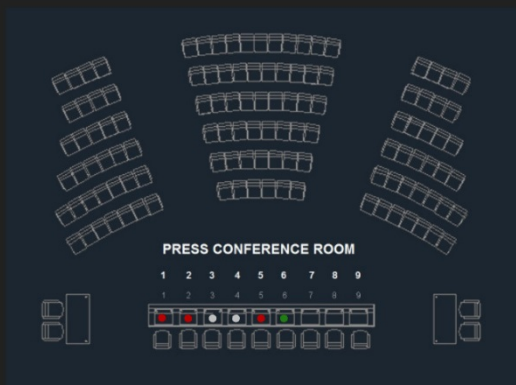
### 12.1.4 Agenda, Speakers and Mimic

```
<Screen Name="Agenda, Mimic and Speakers" RowSizes="1,1,1,*,*" ColumnSizes="*,0.5,*" ShowGridLines="False">
  <CurrentTime Row="1" ColumnSpan="0"
    ItemFormat="[DayOfMonth][MonthName] [Space,Width=Rest][Time]"/>
  <CurrentConference Row="2" RowSpan="2" ColumnSpan="0" ItemSize="Large" />
  <MicrophoneMimic Row="4" RowSpan="2"/>
  <Agenda Row="4" Column="3"
    ItemFormat="[Id][TitleEmphasized, Overflow=OneLineNoScroll]"/>
  <SpeakerList Row="5" Column="3"
    ItemFormat="[MicrophoneState] [Text,Width=Rest] [GroupShortName, Format={(0)}][SeatNumber]" />
</Screen>
```

26 May

3:43 PM

# City Hall Meeting, Nov. 25th 2015 (List)



## Agenda

- a Council Meeting - August 28, 2007
- b Public Hearing - August 28, 2007
- 4 Delegations
- a Community Plan on Homelessness**
- b Detailed presentation
- 5 Public Hearings on the Integrated Community Sustai

## Speakers

Chairman (LP)	(LP)	1
Peter Hastings	(GP)	2
Frank Summer	(BP)	5

## 12.1.5 Agenda, Speakers and Mimic with lines

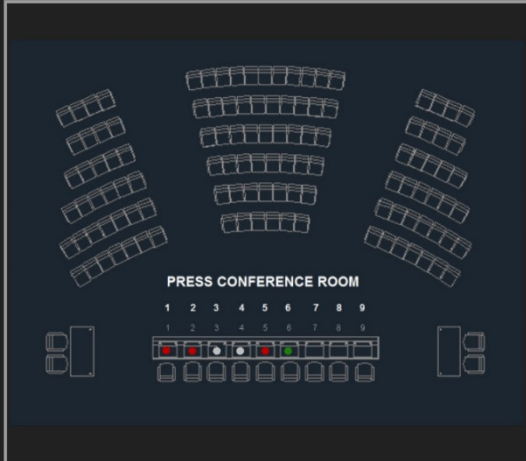
```

<Screen Name="Agenda, Mimic, Speakers and Lines" RowSizes="1,1,1,*,0.15,*,0.15" ColumnSizes="0.1,*,0.1,0.2,*,0.1"
  ShowGridLines="False">
<CurrentTime Row="1" ColumnSpan="0"
  ItemFormat="[MonthName] [DayOfMonth] [Space,Width=Rest][Time]"/>
<CurrentConference Row="2" RowSpan="2" ItemSize="Large" ColumnSpan="0"/>
<MicrophoneMimic Row="4" RowSpan="3" Column="2" />
<Agenda Row="4" Column="5"
  ItemFormat="[Id][TitleEmphasized, Overflow=OneLineNoScroll]"/>
<SpeakerList Row="6" Column="5"
  ItemFormat="[MicrophoneState, Format=Thin][Text,Width=Rest] [GroupShortName, Format={0}] [SeatNumber]" />
<HorizontalLine Row="3" ColumnSpan="0" VerticalContentAlignment="Bottom" Thickness="0.1" Color="Header"/>
<HorizontalLine Row="5" Column="4" ColumnSpan="3" VerticalContentAlignment="Bottom" Thickness="0.5" Color="Header"/>
<HorizontalLine Row="7" ColumnSpan="0" VerticalContentAlignment="Top" Thickness="0.5" Color="Header"/>
<VerticalLine Row="4" RowSpan="3" HorizontalContentAlignment="Left" Thickness="0.5" Color="Header"/>
<VerticalLine Row="4" Column="3" RowSpan="3" HorizontalContentAlignment="Right" Thickness="0.5" Color="Header"/>
<VerticalLine Row="4" Column="6" RowSpan="1" HorizontalContentAlignment="Right" Thickness="0.5" Color="Header"/>
<VerticalLine Row="6" Column="6" RowSpan="1" HorizontalContentAlignment="Right" Thickness="0.5" Color="Header"/>
</Screen>

```

May 26 3:45 PM

## City Hall Meeting, Nov. 25th 2015 (List)



PRESS CONFERENCE ROOM

1 2 3 4 5 6 7 8 9  
1 2 3 4 5 6 7 8 9

Agenda

- a Council Meeting - August 28, 2007
- b Public Hearing - August 28, 2007
- 4 Delegations
- a Community Plan on Homelessness**
- b Detailed presentation
- 5 Public Hearings on the Integrated Community Sustai

Speakers

Chairman (LP)	(LP)	1
Peter Hastings	(GP)	2
Frank Summer	(BP)	5

## 12.1.6 Long Description, Speakers

```

<Screen Name="Current Subject, Description of Current Subject, Speakers" RowSizes="1,1.2,1,0.8,1.3*,1,*" ColumnSizes="*,0.8,*"
  ShowGridLines="False">
<CurrentTime Row="1" ColumnSpan="0"
  ItemFormat="[Time][Space][Date]"/>
<CurrentConference Row="2" ColumnSpan="2" />
<Text Text="Current Subject" Row="4" ColumnSpan="3" ItemSize="Auto" VerticalContentAlignment="Bottom" />
<Text Text="Description of Current Subject, Level 1" Row="4" Column="3" ItemSize="Auto" VerticalContentAlignment="Bottom" />
<CurrentAgendaList Row="5" VerticalContentAlignment="Top" ShowHeader="False"
  ItemFormat="[Indentation][IdEmphasized][TitleEmphasized,Overflow=MultiLine]"/>
<CurrentAgendaItem Row="5" Column="3" VerticalContentAlignment="Top" Level="1" TextStyle="DataItem"
  ItemFormat="[LongDescription, Overflow=MultiLine]" />
<SpeakerList Row="6" Column="1" RowSpan="2"
  ItemFormat="[MicrophoneState,Format=Thin] [Text] [DelegateSpeechTime] [SeatNumber]"/>
<RequestList Row="6" Column="3" RowSpan="2"
  ItemFormat="[MicrophoneState,Format=Thin] [Text] [DelegateSpeechTime] [SeatNumber]"/>
</Screen>

```

3:44 PM May 29

City Hall Meeting, Nov. 25th 2015 (List)

Current Subject

- 4 Delegations
  - a Community Plan on Homelessness
  - b Detailed presentation**

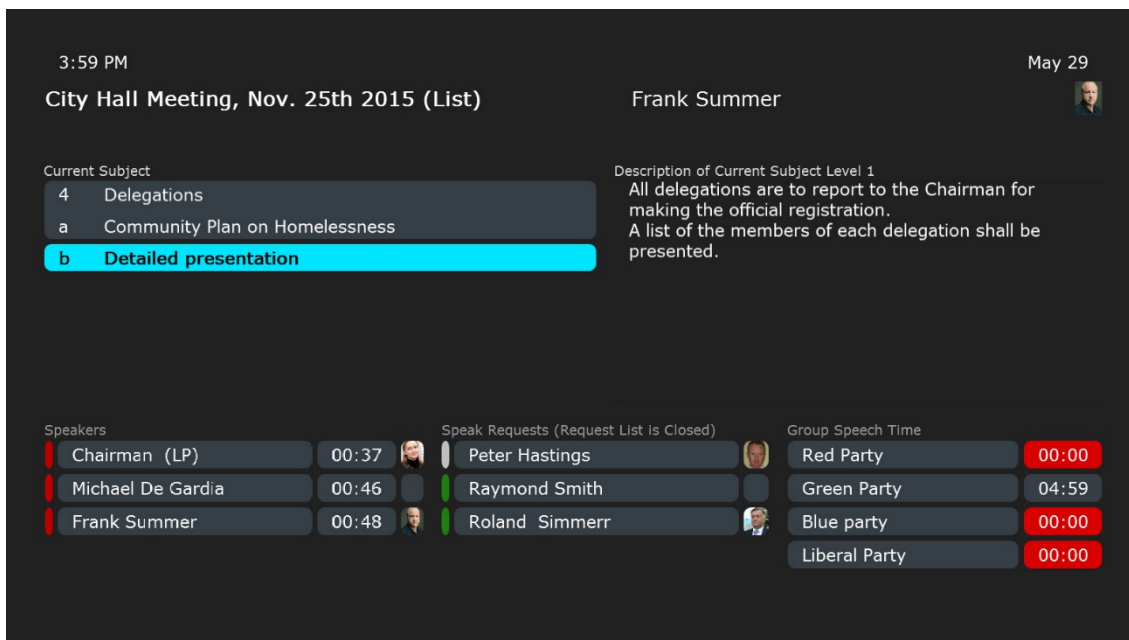
Description of Current Subject, Level 1  
 All delegations are to report to the Chairman for making the official registration.  
 A list of the members of each delegation shall be presented.

Speakers

Frank Summer	00:00	5	Speak Requests 00:22 00:30	Peter Hastings	01:00	2
Michael De Gardia	00:00	6		Raymond Smith	01:00	3
Chairman (LP)	00:00	1		Roland Simmerr	01:00	4

### 12.1.7 Long Description, Speakers, Group Time

```
<Screen Name="Current Subject List and Speakers" RowSizes="1,1.2,1,0.8,1.3*,1,*" ColumnSizes="*,1.4*,0.2,*,0.2,*,0.2,*,*"
  ShowGridLines="False">
<CurrentTime Row="1" ColumnSpan="0"
  ItemFormat="[Time][Space][Date]"/>
<CurrentConference Row="2" ColumnSpan="4"/>
<LatestSpeaker Row="2" Column="6" ColumnSpan="4" ItemSize="Auto"
  ItemFormat="[Text,Width=Rest][DelegatePicture,Align=Right]"/>
<Text Text="Current Subject" Row="4" ColumnSpan="3" ItemSize="Auto" VerticalContentAlignment="Bottom" />
<Text Text="Description of Current Subject Level 1" Row="4" Column="6" ColumnSpan="4" ItemSize="Auto"
  VerticalContentAlignment="Bottom" />
<CurrentAgendaList Row="5" ColumnSpan="4" VerticalContentAlignment="Top" ShowHeader="False"
  ItemFormat="[IdEmphasized][TitleEmphasized,Overflow=MultiLine]"/>
<CurrentAgendaItem Row="5" Column="6" ColumnSpan="4" VerticalContentAlignment="Top" Level="1" TextStyle="DataItem"
  ItemFormat="[LongDescription,Overflow=MultiLine]" />
<SpeakerList Row="6" Column="1" RowSpan="2" ColumnSpan="2"
  ItemFormat="[MicrophoneState,Format=Thin] [Text][DelegateSpeechTime] [DelegatePictureOrNothing]"/>
<RequestList Row="6" Column="4" RowSpan="3" ColumnSpan="3"
  ItemFormat="[MicrophoneState,Format=Thin] [Text][DelegatePictureOrNothing]"/>
<GroupList Row="6" Column="8" ColumnCount="1" RowSpan="2" ColumnSpan="2"
  ItemFormat="[Text,Width=Rest] [GroupSpeechTime]"/>
</Screen>
```





## 12.1.8 Short Description, Speakers

This layout shows the current subjects and the Short Description associated with each level.

```
<Screen Name="Current Subject List and Speakers" RowSizes="1,1.2,1,0.8,1.3*,1,*" ColumnSizes="*,0.8,*" ShowGridLines="False">
<CurrentTime Row="1" ColumnSpan="0"
  ItemFormat="[Time][Space][Date]"/>
<CurrentConference Row="2" ColumnSpan="2"/>
<LatestSpeaker Row="2" Column="3" ItemSize="Auto"
  ItemFormat="[Text, Width=Rest][DelegatePicture]"/>
<Text Text="Current Subjects" Row="4" Column="1" ColumnSpan="3" ItemSize="Auto" VerticalContentAlignment="Bottom" />
<Text Text="Current Subjects, Short Description" Row="4" Column="3" ItemSize="Auto" VerticalContentAlignment="Bottom" />
<CurrentAgendaList Row="5" ColumnSpan="3" RowSpan="2" VerticalContentAlignment="Top" ShowHeader="False"
  ItemFormat="[IdEmphasized][TitleEmphasized, Overflow=MultiLine][ShortDescription, Overflow=MultiLine]"/>
<SpeakerList Row="6" Column="1" RowSpan="2"
  ItemFormat="[MicrophoneState,Format=Thin] [Text] [DelegateSpeechTime] [SeatNumber] [DelegatePictureOrNothing]"/>
<RequestList Row="6" Column="3" RowSpan="2"
  ItemFormat="[MicrophoneState,Format=Thin] [Text] [DelegateSpeechTime] [SeatNumber] [DelegatePictureOrNothing]"/>
</Screen>
```

The screenshot displays a meeting interface for a City Hall Meeting on Nov. 25th 2015. The time is 4:05 PM and the date is May 29. The meeting is hosted by Frank Summer. The interface is divided into several sections:

- Current Subjects:** A list of subjects with their IDs and short descriptions. The subject 'b Detailed presentation' is highlighted in blue.
- Speakers:** A list of speakers with their names, roles, and current status (indicated by a red bar).
- Speak Requests (Request List is Closed):** A list of speakers who have requested to speak, with their names, requested times, and seat numbers.

Current Subjects		Current Subjects, Short Description	
4	Delegations	Registration of delegations	
a	Community Plan on Homelessness		
<b>b</b>	<b>Detailed presentation</b>		

Speakers				Speak Requests (Request List is Closed)			
Chairman (LP)	00:00	1		Peter Hastings	01:00	2	
Michael De Gardia	00:00	6		Raymond Smith	01:00	3	
Frank Summer	00:00	5		Roland Simmerr	01:00	4	

## 12.2 Speakers

### 12.2.1 Speakers, Requests and Group

```
<Screen Name="Speakers, Requests, Group" RowSizes="0.7,0.8,3,0.1,0.7*,*,*" ColumnSizes="" ShowGridLines="False">
<CurrentTime Row="1" ColumnSpan="0" ItemSize="Auto"
  ItemFormat="[Date][Space][Time]"/>
<Text Text="Active Subjects" Row="2" ColumnSpan="0" VerticalContentAlignment="Bottom" ItemSize="Auto" TextStyle="Header" />
<CurrentAgendaItem Row="3" ColumnSpan="0" RowSpan="1" ItemSize="1.5" VerticalContentAlignment="Top"
  ItemFormat="[TitleLine, Overflow=MultiLine]" />
<SpeakerList Row="5" Column="1" ColumnCount="2" ItemSize="Normal" VerticalContentAlignment="Top"
  ItemFormat="[MicrophoneState,Format=Thin] [Text,Width=Rest] [GroupShortName, Format={{0 }} ][GroupSpeechTime]
  [DelegateSpeechTime] [SeatNumber]" />
<RequestList Row="6" Column="1" ColumnCount="2" VerticalContentAlignment="Top"
  ItemFormat="[MicrophoneState,Format=Thin] [Text,Width=Rest] [GroupShortName, Format={{0}}] [GroupSpeechTime]
  [DelegateSpeechTime] [SeatNumber]" />
<GroupList Row="7" Column="1" RowSpan="1" ColumnSpan="1" ColumnCount="2"
  ItemFormat="[Text] [GroupShortName, Format={{0}},Width=Rest][GroupSpeechLimit] [GroupSpeechUsed]
  [GroupSpeechRemaining]" />
</Screen>
```

May 26 4:17 PM

Active Subjects

Public Hearings on the Integrated Community Sustainability Plan : Close Public Hearing

Speakers

Chairman (LP)	(LP)	03:56	00:56	1	Frank Summer	(BP)	04:42	00:56	5
Peter Hastings	(GP)	04:42	00:56	2					

Speak Requests (Request List is Closed)

Roland Simmerr	(GP)	04:42	01:00	4					
Raymond Smith	(RP)	05:00	01:00	3					
Michael De Gardia	(RP)	05:00	01:00	6					

Group Speech Time

Red Party	(RP)	05:00	00:00	05:00	Liberal Party	(LP)	04:00	00:08	03:52
Green Party	(GP)	05:00	00:08	04:52					
Blue party	(BP)	05:00	00:08	04:52					

## 12.2.2 Speech Time Display

The following examples are for creating a display showing the speech time.

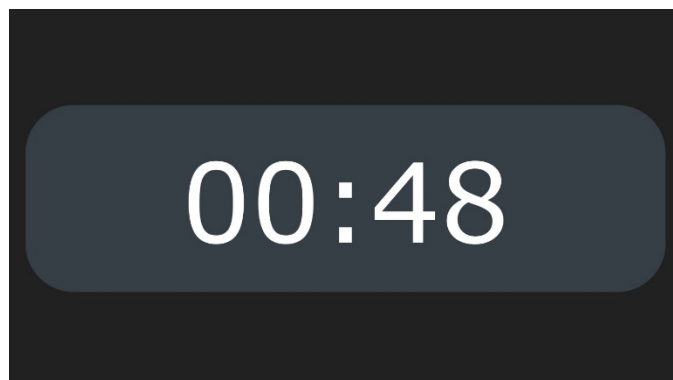
If pulsation of the red color at speech time expiration is not needed, the CDA must be started with the command line parameter "pulsation none".

**Note:** Please note the comments in green color in the examples.

### 12.2.2.1 Speaker Stand

This display shows the speech time for the microphone in the seat specified.

```
<Screen Name="Speech Time, Specific Seat" Margin="0" >
<SpeakerList Row="1" VerticalContentAlignment="Center" ShowHeader="False" TextStyle="NarrowListItem"
ItemFormat="[DelegateSpeechTime, Align=Center, Overflow=OneLineNoScroll]" SortDescriptor= "[SeatNumber, Filter=[1]]"
ItemSize="10" />
<!--
Set 'ItemSize to a value, which gives the desired text height
Set x in .....Filter=[x]]'.... to the specific seat number for which the speech time is shown
-->
```



### 12.2.2.2 First Speaker

This display shows the speech time for the microphone in the top of the Speakers List.

```
<Screen Name="Speech Time, First Speaker" Margin="0" >
<SpeakerList Row="1" VerticalContentAlignment="Center" ShowHeader="False" AutoScroll="False" TextStyle="NarrowListItem"
ItemFormat="[DelegateSpeechTime, Align=Center, Overflow=OneLineNoScroll]" ItemSize="10" />
<!--
Set 'ItemSize to a value, which gives the desired text height
-->
```

### 12.2.2.3 Latest Speaker

This display shows the speech time for the latest microphone turned ON.

```
<Screen Name="Speech Time, Latest Speaker" Margin="0" >
<LatestSpeaker Row="1" TextStyle="NarrowListItem"
ItemFormat="[DelegateSpeechTime, Align=Center, Overflow=OneLineNoScroll]" ItemSize="10" />
<!--
Set 'ItemSize to a value, which gives the desired text height
-->
</Screen>
```

### 12.2.3 Sub-title for chroma key

The following screens are intended to be used when text are to be place in the bottom of the screen using chroma key.

The color of the screen can be configured in the following way:

- Background screen color set in the CDA Screen/Skin
- Insert custom image
- Specify a line filling the whole screen and specify the color for the line

The following examples uses a custom image or a line in the chroma key color.

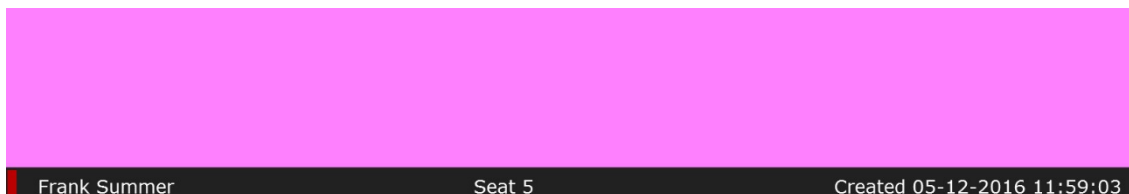
The subtitles in the examples are placed in the bottom of the screen.

#### 12.2.3.1 Speaker, Seat Comments

The "SeatComment" information is taken from the Comment field in the CAA/Setup/Equipment/Conference Units:

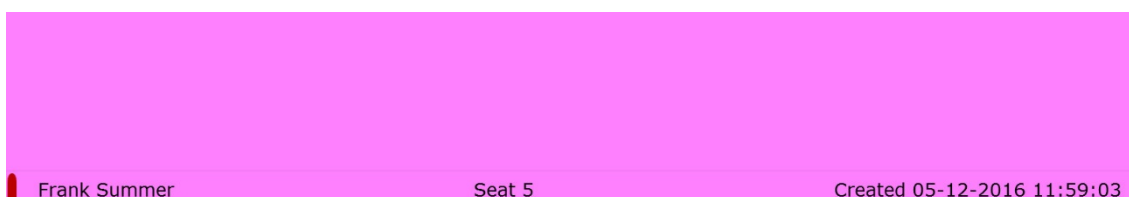
Room #	Seat #	Serial #	Seat Type	Use Serial #	Meeting Role	Computer Name	UI on Computer	Mic	L S	Runtime...	Ext...	Comments	Mic on
1	1	001.223.139	DM unit L...		Chairman	PCCHNIELSEC03	Min. 1280x800	0	0			Created 26-05-2014 15:22:48	
1	2	001.223.101	DM unit L...		Chairman			0	0	<input checked="" type="checkbox"/>		Created 05-12-2016 12:04:09	1
1	3	001.195.040A	DM unit L...		Delegate		Min. 1024x768	0	0			Created 19-11-2015 11:42:55	1
1	4	001.195.040B	DM unit L...		Delegate		Min. 1024x768	0	0			Created 19-11-2015 11:42:55	2

```
<Screen Name="Speaker, Subtitle, Comments " RowSizes="*,1" ColumnSizes="*" ShowGridLines="False" Margin="0">
<Image Row="1" ImageId="Chroma Key 255-128-255" Opacity="1" Stretch="UniformToFill"
  HorizontalContentAlignment="Center"
  VerticalContentAlignment="Center" />
<LatestSpeaker Row="2" ItemSize="1"
  ItemFormat="[MicrophoneState,Format=Thin][Text,Width=ColumnFit][Space][SeatNumber,Format=Seat
  {0}][Space][SeatComment]" TextStyle="DataItem" />
</Screen>
```



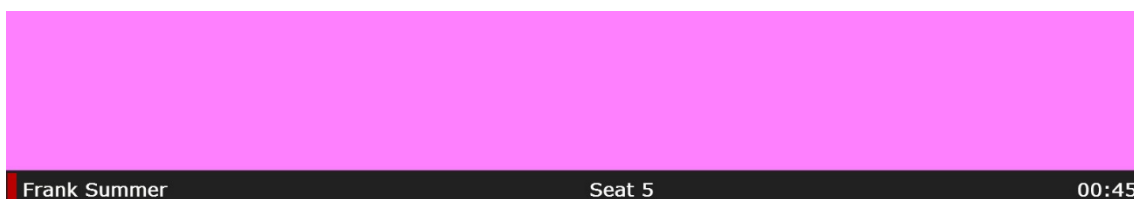
This example has the same content, but the background has the chroma key colors:

```
<Screen Name="Speaker, Subtitle, Comments, Line Color " RowSizes="*,1" ColumnSizes="*" ShowGridLines="False" Margin="0">
<HorizontalLine Row="1" RowSpan="2" Thickness="1" ActualBrush="#FFF08FFF" ColorSource="None"/>
<LatestSpeaker Row="2" ItemSize="1"
  ItemFormat="[MicrophoneState,Format=Thin][Text,Width=ColumnFit][Space][SeatNumber,Format=Seat
  {0}][Space][SeatComment]" TextStyle="NoneDataItem" Foreground="Black" />
</Screen>
```



This example has the 'SeatComment' field replaced with the DelegateSpeechTime: :

```
<Screen Name="Speakers, Subtitle, Speech Time" RowSizes="*,1" ColumnSizes="*" ShowGridLines="False" Margin="0">
<Image Row="1" ImageId="Chroma Key 255-128-255" Opacity="1" Stretch="UniformToFill"
  HorizontalContentAlignment="Center"
  VerticalContentAlignment="Center" />
<LatestSpeaker Row="2" ItemSize="1" TextStyle="ConferenceTitle"
  ItemFormat="[MicrophoneState,Format=Thin] [Text,Width=ColumnFit] [Space] [SeatNumber, Format=Seat
  {0}][Space][DelegateSpeechTime]" />
</Screen>
```



### 12.2.3.2 Speaker, Agenda Title Line

This example shows the latest speaker and the active subject as a Title Line:

```
<Screen Name="Speakers, Subtitle, Agenda Item" RowSizes="*,1" ColumnSizes="*,1,2*" ShowGridLines="False" Margin="0">
<Image Row="1" ColumnSpan="3" ImageId="Chroma Key 255-128-255" Opacity="1" Stretch="UniformToFill"
  HorizontalContentAlignment="Center"
  VerticalContentAlignment="Center" />
<LatestSpeaker Row="2" ItemSize="1" />
<Text Row="2" Column="2" ItemSize="1" Text="||"/>
<CurrentAgendaItem Row="2" Column="3" ColumnSpan="1" RowSpan="1"
  ItemFormat="[TitleLine, Overflow=OneLineScroll]"/>
</Screen>
```



### 12.2.3.3 Speaker, Agenda Title

This example shows the latest speaker and the active subject:

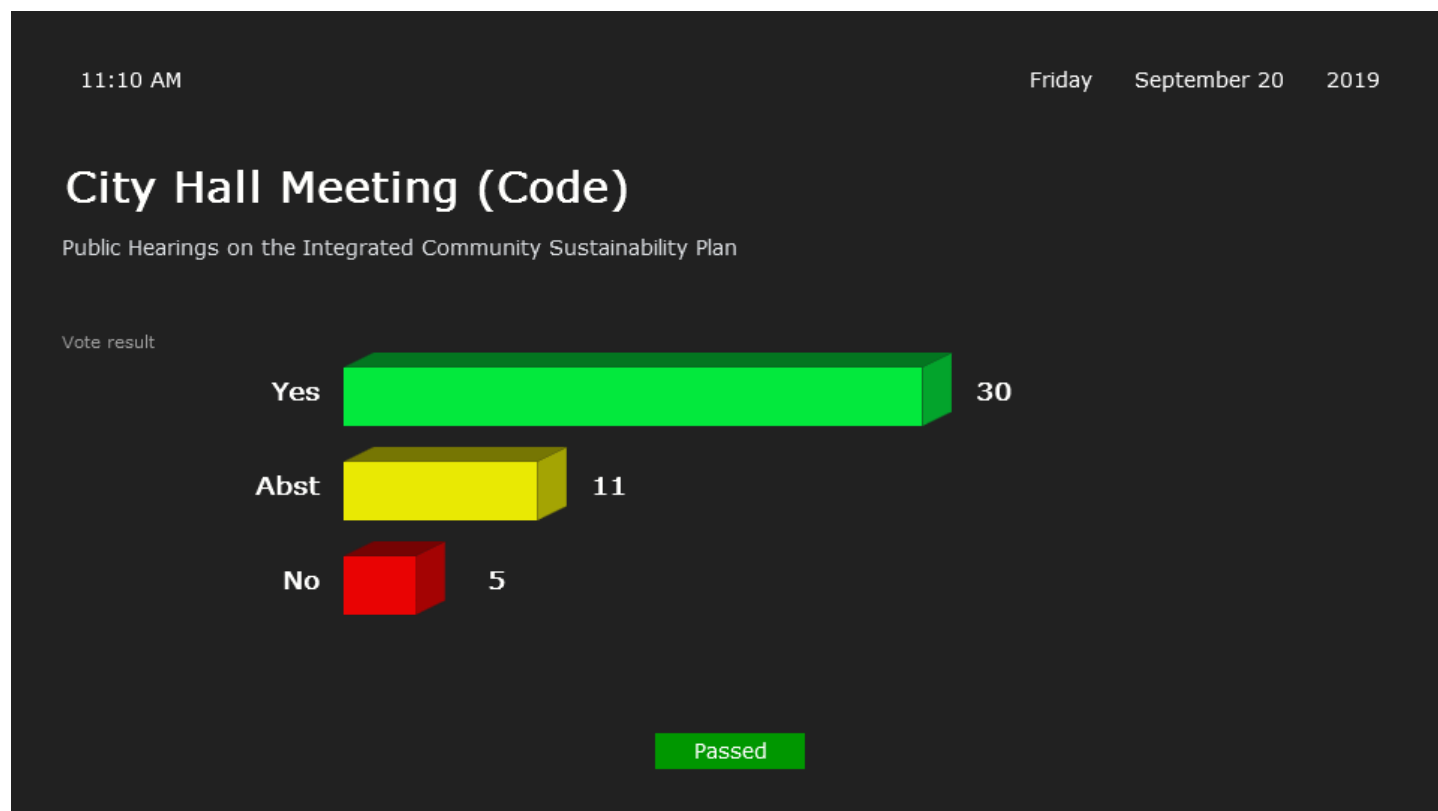
```
<Screen Name="Speakers, Subtitle, Agenda List" RowSizes="*,1" ColumnSizes="*,0.3,3*" ShowGridLines="False" Margin="0">
<Image Row="1" ColumnSpan="3" ImageId="Chroma Key 255-128-255" Opacity="1" Stretch="UniformToFill"
  HorizontalContentAlignment="Center"
  VerticalContentAlignment="Center" />
<LatestSpeaker Row="2" ItemSize="1" ItemFormat="[Text, Overflow=OneLineScroll]"/>
<Text Row="2" Column="2" ItemSize="1" Text="||"/>
<CurrentAgendaList Row="2" Column="3" ColumnSpan="1" RowSpan="1" TextStyle="DataItem" ShowHeader="False"
  ItemFormat="[Title, Overflow=OneLineScroll]"/>
</Screen>
```



## 12.3 Voting

```
<Screen Name="Voting, column, horizontal (3D, filter=pie)" RowSizes="1/7, 1/9, 2/6-1/5, 1/4, 1/8,1,*,1,1" ColumnSizes="0.5*,2*,*">
  <CurrentTime Row="1" ColumnSpan="0"/>
  <CurrentConference Row="3" ColumnSpan="0"/>
  <CurrentAgendaItem Row="4" ColumnSpan="0"/>
  <VoteTime Row="9" ColumnSpan="0"/>
  <VoteConclusion Row="9" ColumnSpan="0"/>

  <Text Row="6" Text="Vote result" TextStyle="Header" VerticalAlignment="Top"/>
  <VoteResultBarChart Row="7" RowSpan="1" Column="2" ColumnSpan="1"
    ShowHeader="False" HeaderFormat="[Text, Format=Vote result]"
    ItemOrientation="Horizontal"
    ItemThickness="Width" ItemPadding="0.5"
    Filter="Pie"
    ItemFormat="[Text, Align=Right] [Bar, Align=Left] [Result, Align=Right] [Space]"
    TextStyle="ConferenceTitle"
    ItemSize="1.2"
    BarStyle="Bar3d" Thickness="0.7" OpacityBeginning="0.9" OpacityEnd="0.9"/>
</Screen>
```



### 12.3.1 Voting, List and Individual

The following example is showing the total and individual voting result. The individual results are shown in 3 columns.

```
<Screen Name="Voting, Total and Individual" RowSizes="1,1,2,1,1,* ,1" ColumnSizes="*,0.5,3*" ShowGridLines="False">
<CurrentTime Row="1" ColumnSpan="0"/>
<CurrentConference Row="3" ColumnSpan="0"/>
<CurrentAgendaItem Row="4" ColumnSpan="0" RowSpan="2"
  ItemFormat="[TitleLine, Overflow=MultiLine]" />
<VoteResultTable Row="6"
  ItemFormat="[VotingState][Text,Width=Rest][Result]"/>
<VoteIndividual Row="6" Column="3" AutoScroll="False" ColumnCount="3"
  ItemFormat="[VotingState][Text,Width=Rest, Overflow=OneLineNoScroll]"/>
<VoteConclusion Row="7"/>
</Screen>
```

11:43 AM
Tuesday May 30 2017

## City Hall Meeting, Nov. 25th 2015 (List)

Reports on the Integrated Community Sustainability Plan, the AUMA/AAMDy&C Resolution - EUB Fees and Development on Street Names : Integrated Community Sustainability Plan

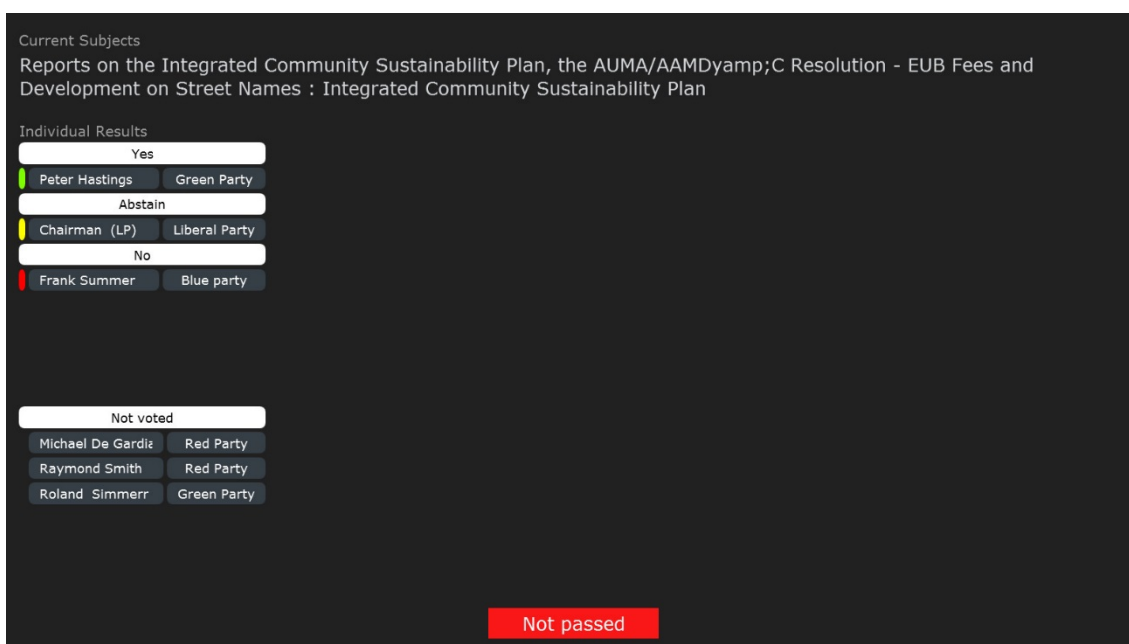
Vote result	Individual Results
<span style="color: green; font-size: 1.2em;">●</span> Yes <span style="margin-left: 20px;">2</span>	<span style="color: red; font-size: 1.2em;">■</span> Chairman (LP)
<span style="color: yellow; font-size: 1.2em;">●</span> Abstain <span style="margin-left: 20px;">1</span>	<span style="color: green; font-size: 1.2em;">■</span> Frank Summer
<span style="color: red; font-size: 1.2em;">●</span> No <span style="margin-left: 20px;">2</span>	<span style="color: gray; font-size: 1.2em;">■</span> Michael De Gardia
<span style="color: gray; font-size: 1.2em;">●</span> Present <span style="margin-left: 20px;">5</span>	<span style="color: yellow; font-size: 1.2em;">■</span> Peter Hastings
<span style="color: gray; font-size: 1.2em;">●</span> Voted <span style="margin-left: 20px;">5</span>	<span style="color: green; font-size: 1.2em;">■</span> Raymond Smith
<span style="color: gray; font-size: 1.2em;">●</span> Logged In <span style="margin-left: 20px;">6</span>	<span style="color: red; font-size: 1.2em;">■</span> Roland Simmerr

Not passed

## 12.3.2 Voting, Individual result

The following example is showing individual voting results grouped by the result. The individual results are shown in 4 columns.

```
<Screen Name="Voting List, Individual Votes" RowSizes="0.7,1.5,1.5*,*,1" ShowGridLines="False" Margin="15" >
<Text Text="Current Subjects" Row="1" ColumnSpan="0" ItemSize="Auto" TextStyle="Header"
  VerticalContentAlignment="Bottom" />
<CurrentAgendaItem Row="2" RowSpan="1" ColumnSpan="0"
  ItemFormat="[TitleLine, Overflow=MultiLine]" />
<VoteIndividual Row="3" ColumnCount="4" ItemSize="0.7" GroupHeaderFormat="[VoteOptionName]"
  SortDescriptor="[VoteOptionNumber, GroupBy, Filter=[1,2,3]][Text]"
  ItemFormat="[VotingState][Text][GroupName]" />
<VoteIndividual Row="4" ColumnCount="4" ItemSize="0.7" GroupHeaderFormat="[Text, Format=Not voted,Align=Center]"
  SortDescriptor="[VoteOptionNumber, GroupBy, Filter=[0]][Text]"
  ItemFormat="[VotingState][Text][GroupName]" ShowHeader="False" />
<VoteConclusion Row="5"/>
</Screen>
```





## 12.3.3 Voting, Group result

```

<Screen Name="Voting, column, vertical" RowSizes="1/7, 1/9, 2/6-1/5, 1/4, 1/8,1,*,1,1" ColumnSizes="*,2*,*">
  <CurrentTime Row="1" ColumnSpan="0"/>
  <CurrentConference Row="3" ColumnSpan="0"/>
  <CurrentAgendaItem Row="4" ColumnSpan="0"/>
  <VoteTime Row="9" ColumnSpan="0"/>
  <VoteConclusion Row="9" ColumnSpan="0"/>
<Text Row="6" Text="Group result" TextStyle="Header" VerticalAlignment="Top"/>
<VoteGroup Row="7" Column="2"
  TextStyle="ConferenceTitle"
  ItemSize="1.2"
  ShowHeader="False"
  ItemFormat="[GroupName, Align=Left, Width=Rest, WidthMultiplier=3][Space, Width=Rest, WidthMultiplier=0.5][SummaryList,
Format=[VotingState][Result, Width=Rest]]"/>
</Screen>

```

11:19 AM Friday September 20 2019

## City Hall Meeting (Prepared seat table)

Public Hearings on the Integrated Community Sustainability Plan : Move into Public Hearing

Group result

Blue Party	<span style="color: green;">●</span> 0	<span style="color: yellow;">●</span> 0	<span style="color: red;">●</span> 0
Green Party	<span style="color: green;">●</span> 0	<span style="color: yellow;">●</span> 0	<span style="color: red;">●</span> 0
Liberal Party	<span style="color: green;">●</span> 1	<span style="color: yellow;">●</span> 0	<span style="color: red;">●</span> 0
Red Party	<span style="color: green;">●</span> 0	<span style="color: yellow;">●</span> 0	<span style="color: red;">●</span> 0

Passed

## 12.4 Conference Variables

The following example shows the conference variable available.

```
<Screen RowSizes="2*,*,*,*,*,*,*,*,*,*" ColumnSizes="*,*" >
<Text Row="1" ItemSize="Auto" ColumnSpan="0" HorizontalAlignment="Center" Text="Variables"/>
<ConferenceVariable Row="2" Column="1" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=DelegatesOnList in: {DelegatesOnList}]/>
<ConferenceVariable Row="3" Column="1" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=DelegatesPresent: {DelegatesPresent}]/>
<ConferenceVariable Row="4" Column="1" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=DelegatesLoggedIn: {DelegatesLoggedIn}]/>
<ConferenceVariable Row="5" Column="1" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=DelegatesNotLoggedIn: {DelegatesNotLoggedIn}]/>
<ConferenceVariable Row="6" Column="1" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=DelegatesDelegated: {DelegatesDelegated}]/>
<ConferenceVariable Row="7" Column="1" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=DelegatesRegistered: {DelegatesRegistered}]/>
<ConferenceVariable Row="8" Column="1" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=DelegatesLateRegistered: {DelegatesLateRegistered}]/>
<ConferenceVariable Row="9" Column="1" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=DelegatesNotRegistered: {DelegatesNotRegistered}]/>

<ConferenceVariable Row="2" Column="2" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=VotesOnList in: {VotesOnList}]/>
<ConferenceVariable Row="3" Column="2" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=VotesPresent: {VotesPresent}]/>
<ConferenceVariable Row="4" Column="2" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=VotesLoggedIn: {VotesLoggedIn}]/>
<ConferenceVariable Row="5" Column="2" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=VotesNotLoggedIn: {VotesNotLoggedIn}]/>
<ConferenceVariable Row="6" Column="2" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=VotesDelegated: {VotesDelegated}]/>
<ConferenceVariable Row="7" Column="2" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=VotesVoted: {VotesVoted}]/>
<ConferenceVariable Row="8" Column="2" HorizontalAlignment="Right"
  ItemFormat="[Expression, Format=DelegatesVoted: {DelegatesVoted}]/>
</Screen>
```

### Variables

DelegatesOnList in: 11	VotesOnList in: 107
DelegatesPresent: 3	VotesPresent: 3
DelegatesLoggedIn: 6	VotesLoggedIn: 103
DelegatesNotLoggedIn: 5	VotesNotLoggedIn: 4
DelegatesDelegated: 0	VotesDelegated: 0
DelegatesRegistered: 0	VotesVoted: 3
DelegatesLateRegistered: 0	DelegatesVoted: 3
DelegatesNotRegistered: 11	

## 12.5 Interpretation Channels

```
<Screen Name="Interpretation Channels" RowSizes="1/7, 1/9, 2/6-1/2, 1/8, 1, *(6)" ColumnSizes="*,*,*">
  <CurrentTime Row="1" ColumnSpan="0"/>
  <CurrentConference Row="3" ColumnSpan="0"/>
```

```
<InterpretationChannel Row="5" RowSpan="5" Column="1" ColumnCount="3" ColumnSpan="0"
  ItemSize="0.9"
  SortDescriptor="[ChannelNumber, Filter=1-10]"
  ShowHeader="True"
  ItemFormat="
[ChannelNumberActive, Format=Ch. {ChannelNumber}]
[LanguageAbbreviation]
[LanguageNative]"/>
```

```
<InterpretationChannel Row="6" RowSpan="5" Column="2" ColumnCount="1" ColumnSpan="1"
  ItemSize="0.9"
  SortDescriptor="[ChannelNumber, Filter=11-20]"
  ShowHeader="False"
  ItemFormat="
[ChannelNumberActive, Format=Ch. {ChannelNumber}]
[LanguageAbbreviation]
[LanguageNative]"/>
```

```
<InterpretationChannel Row="6" RowSpan="5" Column="3" ColumnCount="1" ColumnSpan="1"
  ItemSize="0.9"
  SortDescriptor="[ChannelNumber, Filter=21-30]"
  ShowHeader="False"
  ItemFormat="
[ChannelNumberActive, Format=Ch. {ChannelNumber}]
[LanguageAbbreviation]
[LanguageNative]"/>
```

```
</Screen>
```

11:00 AM Friday September 20 2019

### City Hall Meeting (Code)

Channel list

Ch. 1	ENG	English	Ch. 11	CAN	广东话	Ch. 21	FIN	Suomalainen
Ch. 2	FRA	Français	Ch. 12	CAT	Català	Ch. 22	AFR	Afrikaans
Ch. 3	DAN	Dansk	Ch. 13	ZHO	中文	Ch. 23	GLG	Galego
Ch. 4	NLD	Nederlands	Ch. 14	COS	Corsu	Ch. 24	KAT	ქართული
Ch. 5	SPA	Español	Ch. 15	BEN	বাঙালি	Ch. 25	DEU	Deutsch
Ch. 6	RUS	Русский	Ch. 16	CES	Čeština	Ch. 26	ELL	Ελληνική
Ch. 7	BUL	Български	Ch. 17	SQI	Shqip	Ch. 27	HYE	Հայերեն
Ch. 8	JPN	日本語	Ch. 18	NEP	नेपाली	Ch. 28	HRV	Hrvatski
Ch. 9	THA	ไทย	Ch. 19	ARA	عربي	Ch. 29	HIN	हिंदी
Ch. 10	MYA	Mjəmà bàðà	Ch. 20	EST	Eesti keel	Ch. 30	HUN	Magyar

## 12.6 Interpretation booth with channel list

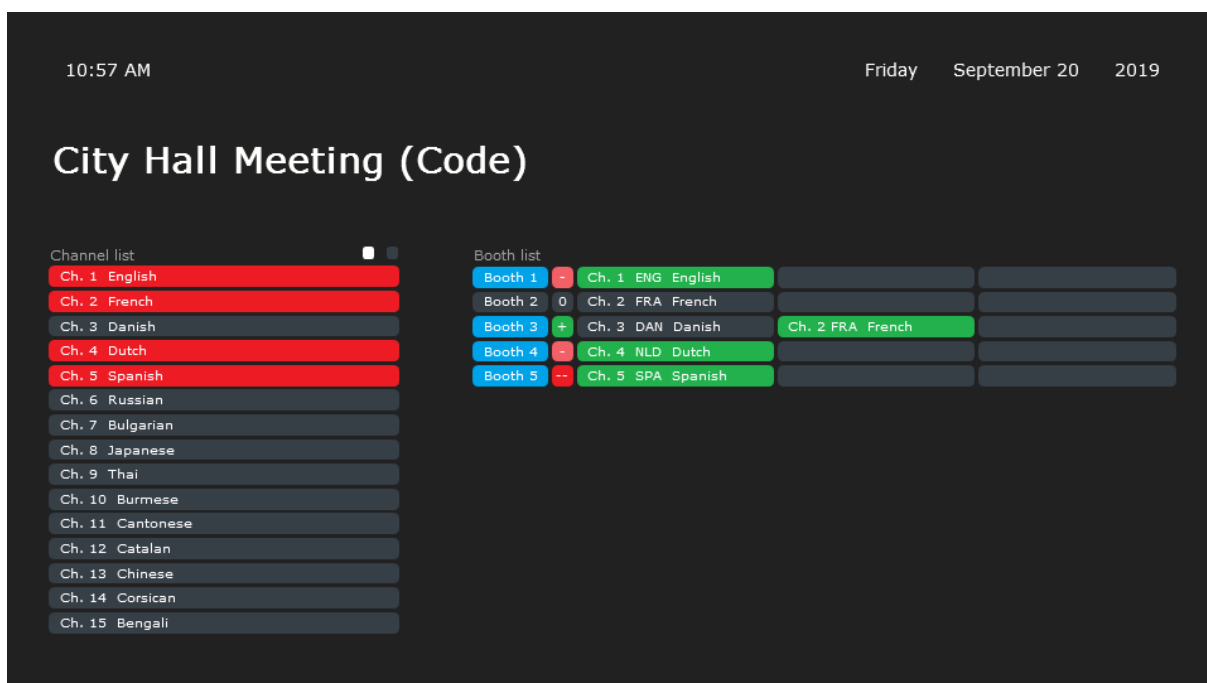
```

<Screen Name="Interpretation Booth" RowSizes="1/7, 1/9, 2/6-1/2, 1/8, *(6)" ColumnSizes="*,0.2*,*,*">
  <CurrentTime Row="1" ColumnSpan="0"/>
  <CurrentConference Row="3" ColumnSpan="0"/>

  <InterpretationChannel Row="5" RowSpan="5" Column="1" ColumnSpan="1" ItemSize="0.7"
    SortDescriptor="[ChannelNumber, Filter=1-22]"
    ItemFormat="[ChannelNumberActive, Format=Ch. {ChannelNumber} {LanguageName}]" />

  <InterpretationBooth Row="5" RowSpan="5" Column="3" ColumnSpan="0" ItemSize="0.7"
    SortDescriptor="[BoothNumber, Filter=1-22]"
    ItemFormat="
[BoothNumberActive,Format=Booth {BoothNumber}]
[ChannelQuality]
[AChannelNumber,Format=Ch. {AChannelNumber} {AAbbreviation} {AChannelLanguageName}]
[BChannelNumber,Format=Ch. {BChannelNumber} {BAbbreviation} {BChannelLanguageName}]
[CChannelNumber,Format=Ch. {CChannelNumber} {CAbbreviation} {CChannelLanguageName}]" />
</Screen>

```

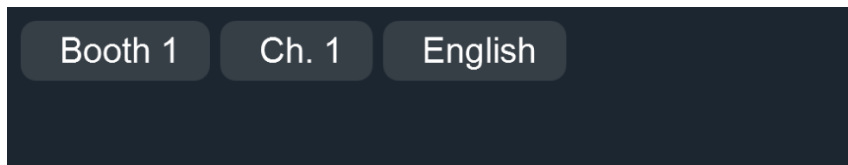


## 12.7 Interpretation booth, Sign at booth, Horizontal

```
<Screen Name="Interpretation Booth, sign horizontal"
RowSizes="*" ColumnSizes="*" ShowGridLines="True" Margin="10,10">
```

```
<InterpretationBooth Row="1" Column="1" ItemSize="2" ShowHeader="False" SortDescriptor="[BoothNumber, Filter=1]" ItemFormat="
[BoothNumber, Format= Booth {BoothNumber}]
[BoothNumber, Format= Ch. {AChannelNumber}]
[BoothNumber, Format= {AChannelLanguageName}]" />
```

```
</Screen>
```



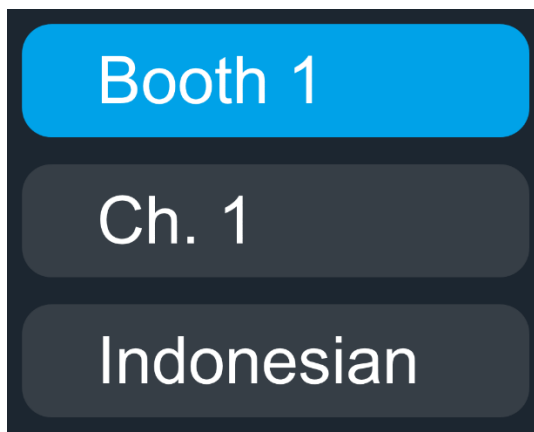
## 12.8 Interpretation booth, Sign at booth, Vertical

```
<Screen Name="Interpretation Booth, sign vertical"
RowSizes="*,*" ColumnSizes="*" ShowGridLines="False" Margin="10,10">
```

```
<InterpretationBooth Row="1" Column="1" ItemSize="6" ShowHeader="False" SortDescriptor="[BoothNumber, Filter=1]" ItemFormat="
[BoothNumberActive, Format= Booth {BoothNumber}]" />
```

```
<InterpretationBooth Row="2" Column="1" ItemSize="6" ShowHeader="False" SortDescriptor="[BoothNumber, Filter=1]" ItemFormat="
[BoothNumber, Format= Ch. {AChannelNumber}]" />
```

```
<InterpretationBooth Row="3" Column="1" ItemSize="6" ShowHeader="False" SortDescriptor="[BoothNumber, Filter=1]" ItemFormat="
[BoothNumber, Format= {AChannelLanguageName}]" />
</Screen>
```





**United States, Canada, Latin  
America, Caribbean:**

Shure Incorporated  
5800 West Touhy Avenue  
Niles, IL 60714-4608  
USA

Phone: +1 847 600 2000  
Fax: +1 847 600 1212 (USA)  
Fax: +1 847 600 6446  
Email: [info@shure.com](mailto:info@shure.com)

**Europe, Middle East, Africa:**

Shure Europe GmbH  
Jakob-Dieffenbacher-Str. 12  
75031 Eppingen  
Germany

Phone: +49 (0) 7262-9249-100  
Fax: +49 (0) 7262-9249-114  
Email: [info@shure.de](mailto:info@shure.de)

**Asia, Pacific:**

Shure Asia Limited  
22/F, 625 King's Road  
North Point, Island East,  
Hong Kong

Phone: (+852) 2893-4290  
Fax: (+852) 2893-4055  
Email: [info@shure.com.hk](mailto:info@shure.com.hk)